LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 15

2025

Bate Stamp Numbers
01315395 – 01317354

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

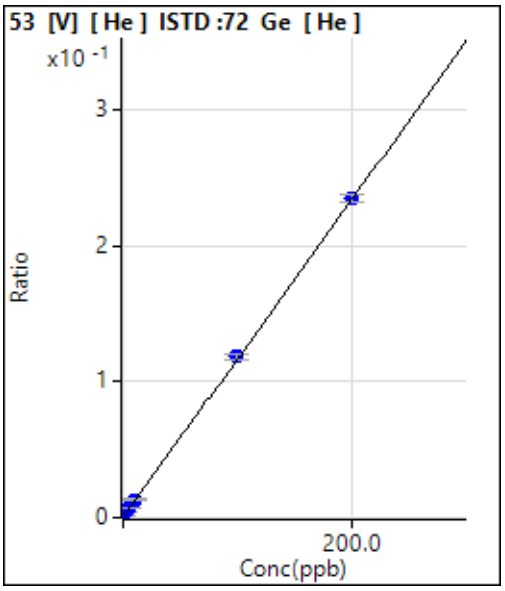
1976–2025

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 15

2025

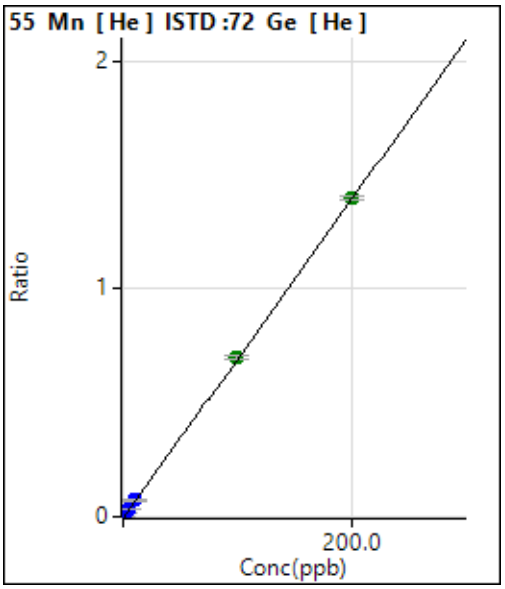
A.	Title:	(Cont'd) Report – Appendix F labs File 2 to Draft Quarterly Evaluation Report, 2nd Quarter (April-June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Longhorn Army Ammunition Plant
	Date:	March 7, 2025
	Bate Stamp:	01315395–01317354



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2040.18	0.0015	P	12.2	
2	☐	2.000	2.147	5477.85	0.0040	P	5.1	7.3
3	☐	5.000	5.010	9933.73	0.0073	P	0.8	0.2
4	☐	10.000	10.162	18048.75	0.0133	P	5.6	1.6
5	☐	100.000	100.029	158763.74	0.1182	P	2.7	0.0
6	☐	200.000	199.976	314950.89	0.2347	P	2.9	0.0

y = 0.0012 * x + 0.0015
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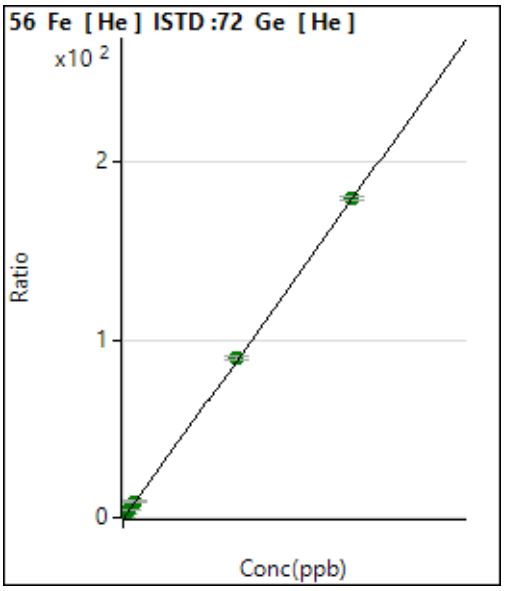
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4	☐	10.000	10.206	97559.34	0.0721	P	1.6	2.1
5	☐	100.000	100.238	943695.17	0.7023	A	2.3	0.2
6	☐	200.000	199.870	1878014.40	1.3997	A	1.1	-0.1

y = 0.0070 * x + 6.6703E-004
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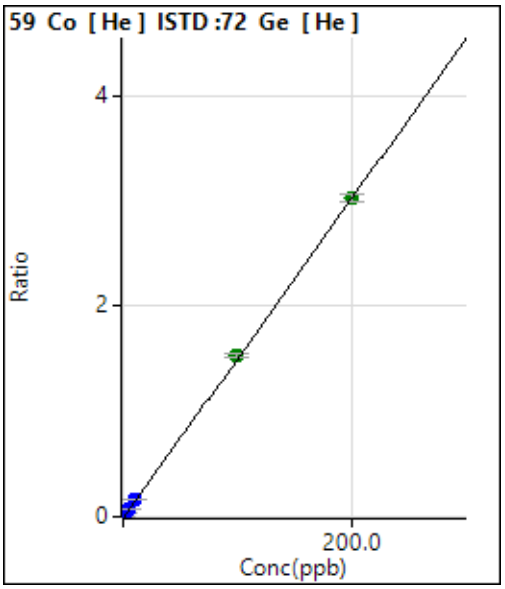
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3	☐	500.000	494.794	6051915.74	4.4655	A	2.5	-1.0
4	☐	1000.000	1015.032	12368342.31	9.1417	A	1.8	1.5
5	☐	10000.00	10019.84	121048588.2	90.0830	A	2.0	0.2
6	☐	20000.00	19989.46	241097883.0	179.696	A	1.5	-0.1

y = 0.0090 * x + 0.0180
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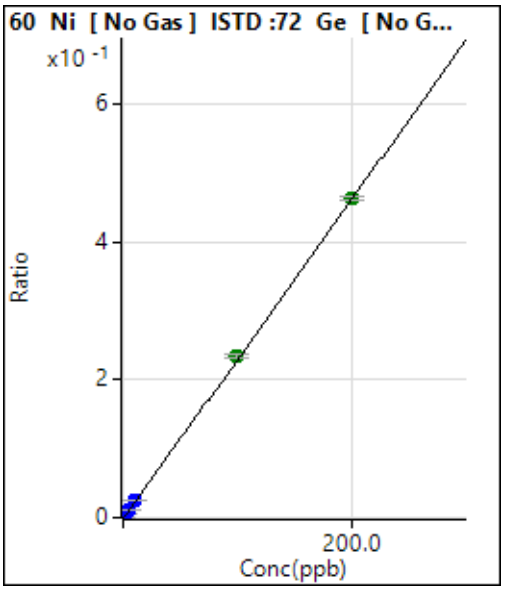


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3	☐	5.000	5.008	103074.24	0.0760	P	1.4	0.2
4	☐	10.000	10.311	211716.47	0.1565	P	1.3	3.1
5	☐	100.000	101.149	2062013.41	1.5345	A	1.7	1.1
6	☐	200.000	199.409	4058702.33	3.0251	A	2.4	-0.3

y = 0.0152 * x + 7.2767E-005
R = 1.0000
DL = 0.001448 ppb
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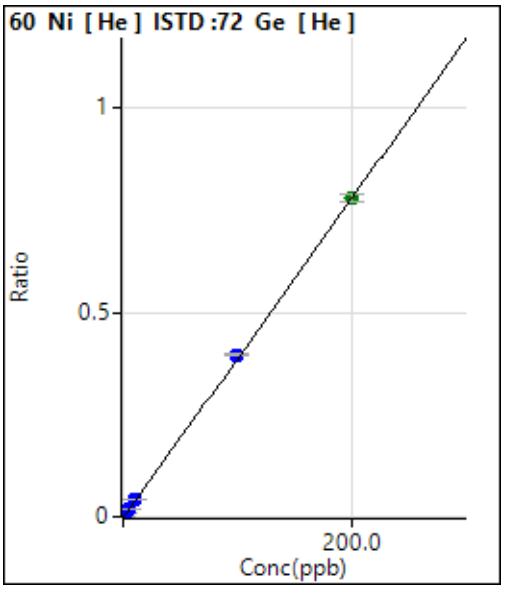
Calibration for 105_ICV.d



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3	☐	5.000	5.135	53765.54	0.0123	P	2.4	2.7
4	☐	10.000	10.399	106019.44	0.0245	P	1.8	4.0
5	☐	100.000	100.420	999918.26	0.2332	A	2.4	0.4
6	☐	200.000	199.766	1955243.62	0.4635	A	1.5	-0.1

y = 0.0023 * x + 4.2438E-004
R = 1.0000
DL = 0.05693 ppb
BEC = 0.1831 ppb

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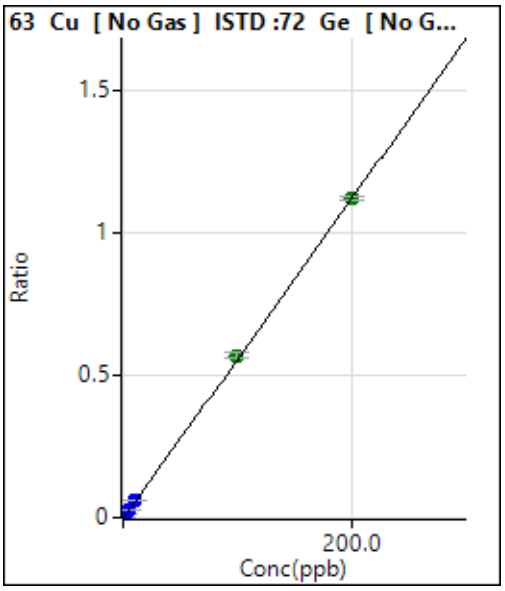


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2	☐	2.000	1.982	11515.03	0.0084	P	2.0	-0.9
3	☐	5.000	5.039	27584.63	0.0204	P	1.6	0.8
4	☐	10.000	10.380	55829.97	0.0413	P	0.7	3.8
5	☐	100.000	101.280	533730.77	0.3972	P	1.1	1.3
6	☐	200.000	199.340	1048068.86	0.7811	A	2.3	-0.3

y = 0.0039 * x + 6.2089E-004
R = 1.0000
DL = 0.02982 ppb
BEC = 0.1586 ppb

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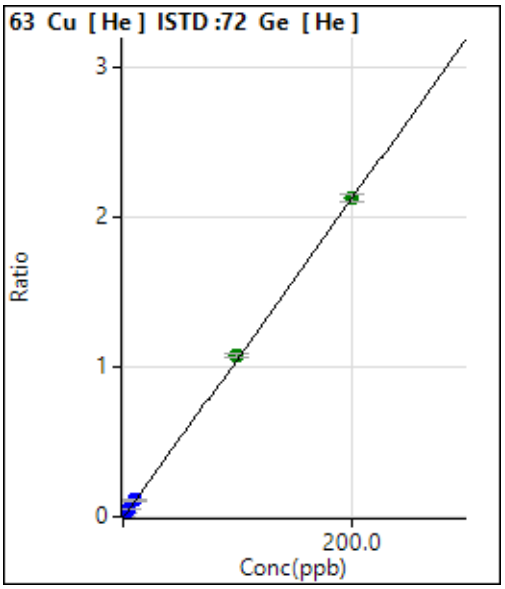
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4254.07	0.0010	P	3.9	
2	☐	2.000	2.100	55776.70	0.0128	P	3.7	5.0
3	☐	5.000	5.163	131090.91	0.0301	P	2.0	3.3
4	☐	10.000	10.504	259902.25	0.0601	P	2.3	5.0
5	☐	100.000	101.341	2451580.54	0.5717	A	3.3	1.3
6	☐	200.000	199.299	4739522.85	1.1235	A	1.6	-0.4

y = 0.0056 * x + 9.7576E-004
R = 1.0000
DL = 0.02033 ppb
BEC = 0.1732 ppb

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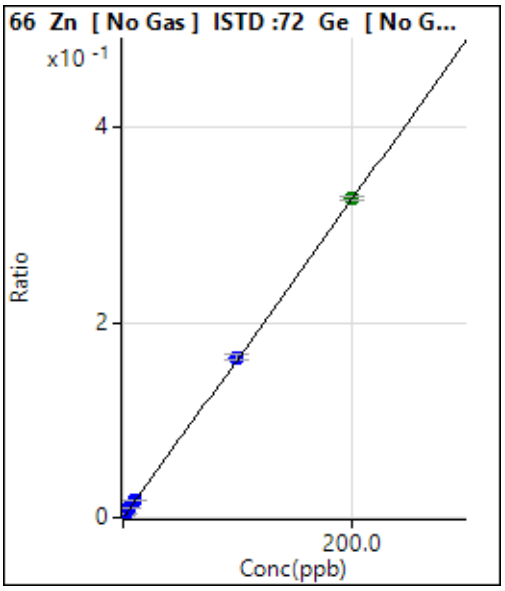


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3	☐	5.000	5.024	74695.94	0.0551	P	2.9	0.5
4	☐	10.000	10.183	148798.43	0.1100	P	2.2	1.8
5	☐	100.000	100.803	1442889.72	1.0738	A	1.7	0.8
6	☐	200.000	199.589	2850281.21	2.1244	A	2.2	-0.2

y = 0.0106 * x + 0.0017
R = 1.0000
DL = 0.02934 ppb
BEC = 0.1578 ppb

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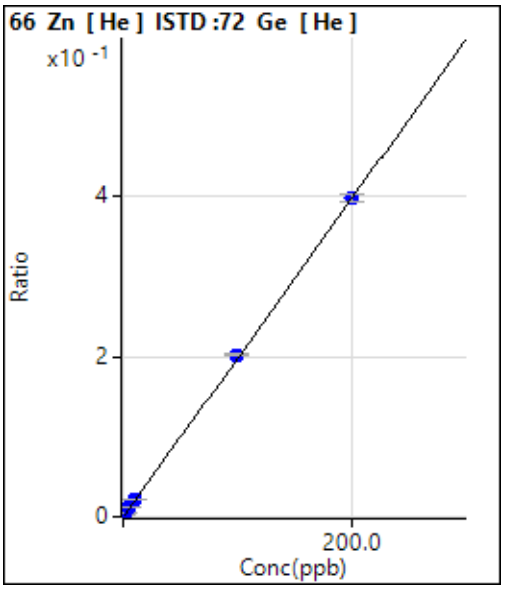
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
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2	☐	2.000	2.174	20882.85	0.0048	P	2.2	8.7
3	☐	5.000	4.954	40687.45	0.0093	P	2.0	-0.9
4	☐	10.000	10.276	77836.49	0.0180	P	1.0	2.8
5	☐	100.000	100.123	705528.43	0.1645	P	2.9	0.1
6	☐	200.000	199.924	1380823.88	0.3273	A	1.5	0.0

y = 0.0016 * x + 0.0012
R = 1.0000
DL = 0.09167 ppb
BEC = 0.7654 ppb

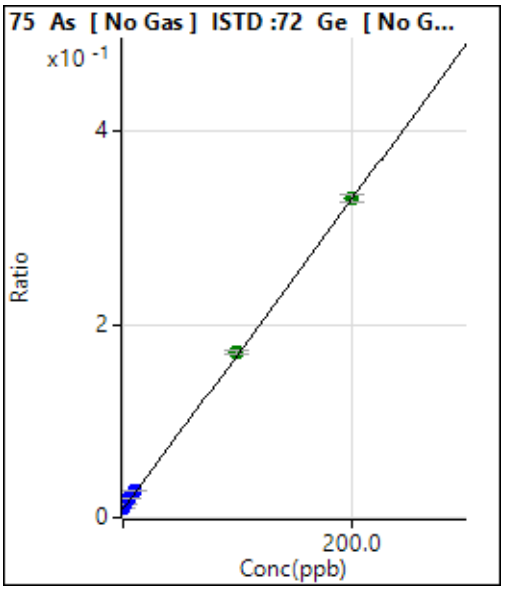
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	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
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2	☐	2.000	2.207	8015.78	0.0058	P	3.3	10.3
3	☐	5.000	4.795	14884.91	0.0110	P	2.9	-4.1
4	☐	10.000	10.347	29796.05	0.0220	P	3.8	3.5
5	☐	100.000	101.023	271884.24	0.2023	P	1.9	1.0
6	☐	200.000	199.474	534120.45	0.3981	P	2.2	-0.3

y = 0.0020 * x + 0.0014
R = 1.0000
DL = 0.1331 ppb
BEC = 0.7282 ppb

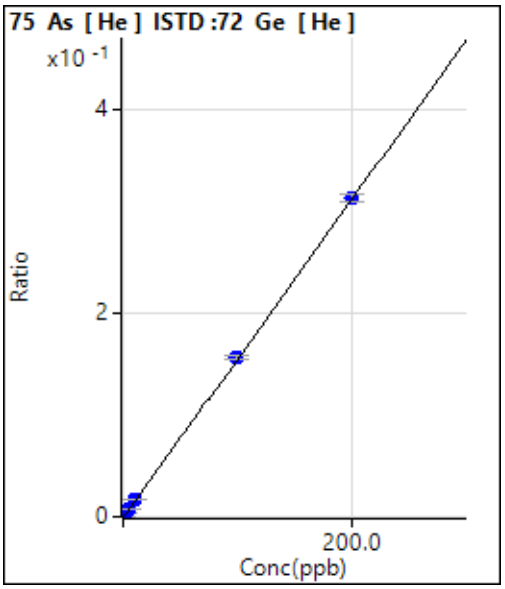
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2	☐	2.000	2.424	61562.10	0.0141	P	0.7	21.2
3	☐	5.000	5.698	84584.23	0.0194	P	1.4	14.0
4	☐	10.000	11.112	121405.60	0.0281	P	1.0	11.1
5	☐	100.000	100.501	736109.68	0.1717	A	2.9	0.5
6	☐	200.000	199.672	1396275.29	0.3310	A	1.9	-0.2

y = 0.0016 * x + 0.0102
R = 1.0000
DL = 0.4022 ppb
BEC = 6.373 ppb

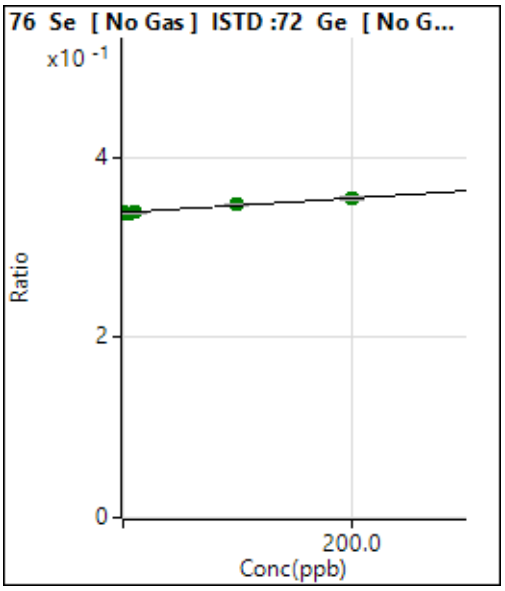
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2	☐	2.000	2.029	4761.97	0.0035	P	3.3	1.5
3	☐	5.000	4.886	10765.40	0.0079	P	4.0	-2.3
4	☐	10.000	10.297	22219.21	0.0164	P	0.3	3.0
5	☐	100.000	99.861	210665.33	0.1568	P	1.7	-0.1
6	☐	200.000	200.057	421044.52	0.3138	P	1.9	0.0

y = 0.0016 * x + 2.8699E-004
R = 1.0000
DL = 0.05039 ppb
BEC = 0.1831 ppb

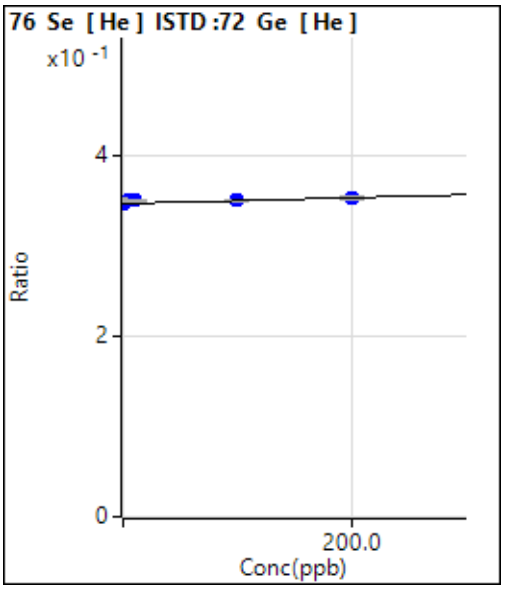
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2	☐	2.000	-20.845	1470482.48	0.3375	A	0.5	-1142.3
3	☐	5.000	-9.961	1476269.25	0.3384	A	0.7	-299.2
4	☐	10.000	7.122	1468759.87	0.3398	A	0.8	-28.8
5	☐	100.000	108.036	1491958.05	0.3479	A	0.6	8.0
6	☐	200.000	196.728	1497989.72	0.3551	A	0.8	-1.6

y = 8.0503E-005 * x + 0.3392
R = 0.9933
DL = 26.72 ppb
BEC = 4214 ppb

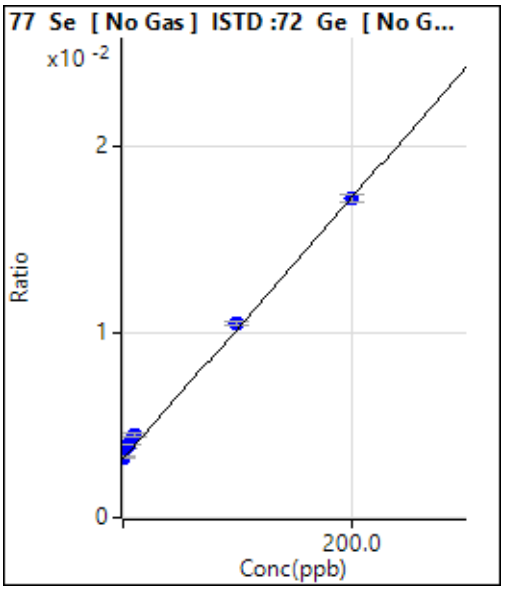
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2	☐	2.000	43.920	478993.38	0.3487	P	0.6	2096.0
3	☐	5.000	95.048	474964.69	0.3504	P	1.3	1801.0
4	☐	10.000	95.966	474172.67	0.3505	P	0.4	859.7
5	☐	100.000	116.344	471879.60	0.3511	P	0.7	16.3
6	☐	200.000	184.859	474179.69	0.3534	P	1.0	-7.6

y = 3.3173E-005 * x + 0.3473
R = 0.8444
DL = 511 ppb
BEC = 1.047E+04 ppb

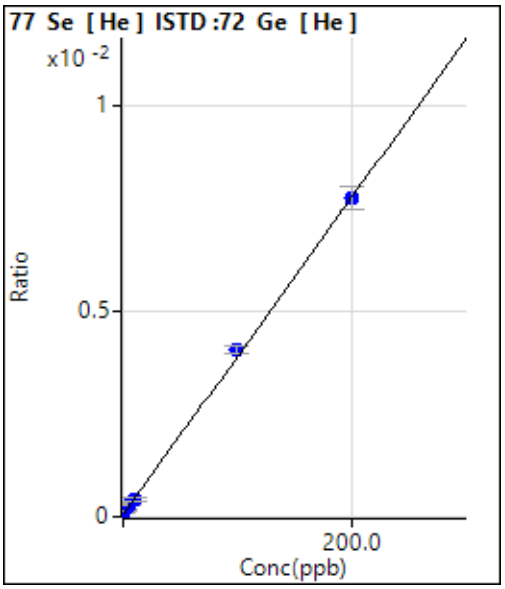
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2	☐	2.000	6.380	16193.21	0.0037	P	0.1	219.0
3	☐	5.000	10.105	17357.99	0.0040	P	0.8	102.1
4	☐	10.000	16.915	19273.98	0.0045	P	2.9	69.1
5	☐	100.000	102.003	44787.16	0.0104	P	2.1	2.0
6	☐	200.000	198.482	72696.90	0.0172	P	2.4	-0.8

y = 7.0358E-005 * x + 0.0033
R = 0.9996
DL = 3.326 ppb
BEC = 46.45 ppb

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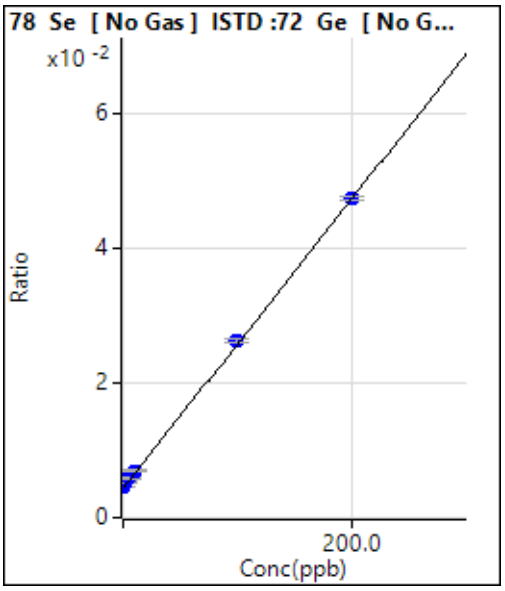


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2	☐	2.000	1.889	226.67	0.0002	P	23.9	-5.5
3	☐	5.000	5.021	386.68	0.0003	P	16.0	0.4
4	☐	10.000	8.676	576.69	0.0004	P	20.5	-13.2
5	☐	100.000	102.730	5444.52	0.0041	P	4.2	2.7
6	☐	200.000	198.702	10397.49	0.0077	P	7.1	-0.6

y = 3.8537E-005 * x + 9.2136E-005
R = 0.9998
DL = 2.13 ppb
BEC = 2.391 ppb

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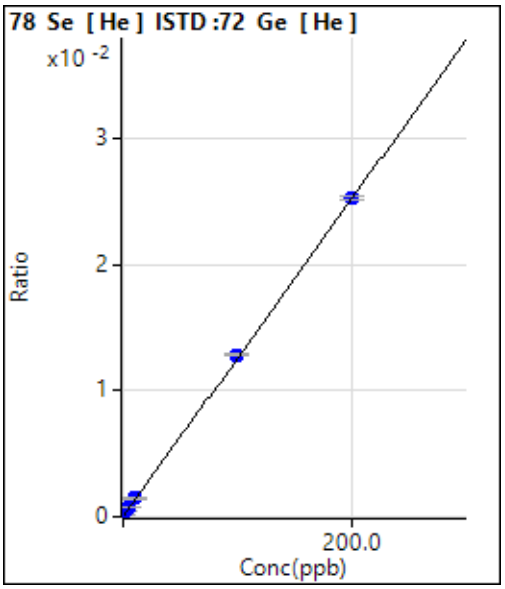
Calibration for 105_ICV.d



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2	☐	2.000	3.082	22849.57	0.0052	P	2.2	54.1
3	☐	5.000	6.009	25627.78	0.0059	P	1.2	20.2
4	☐	10.000	11.047	30076.90	0.0070	P	2.4	10.5
5	☐	100.000	101.059	112838.51	0.0263	P	2.1	1.1
6	☐	200.000	199.382	200225.95	0.0475	P	1.5	-0.3

y = 2.1506E-004 * x + 0.0046
R = 1.0000
DL = 0.7244 ppb
BEC = 21.31 ppb

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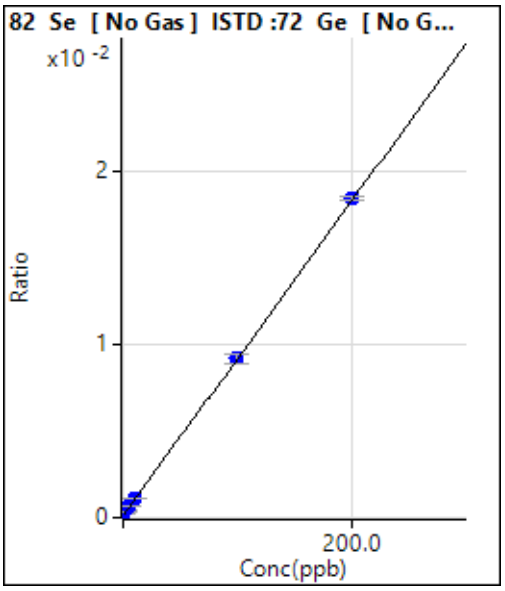


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	207.33	0.0002	P	9.0	
2	☐	2.000	2.035	560.01	0.0004	P	3.6	1.8
3	☐	5.000	4.869	1037.38	0.0008	P	3.3	-2.6
4	☐	10.000	10.420	1982.82	0.0015	P	3.5	4.2
5	☐	100.000	100.711	17278.96	0.0129	P	1.5	0.7
6	☐	200.000	199.626	33999.63	0.0253	P	0.9	-0.2

y = 1.2618E-004 * x + 1.5086E-004
R = 1.0000
DL = 0.3219 ppb
BEC = 1.196 ppb

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Min Conc: <None>

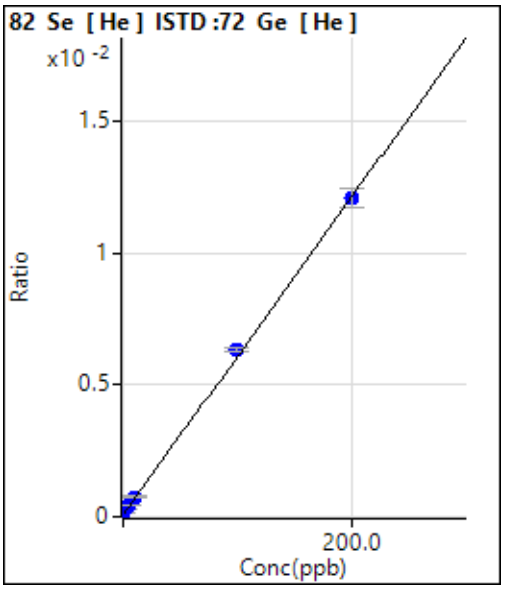
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	916.72	0.0002	P	11.2	
2	☐	2.000	2.170	1773.48	0.0004	P	12.5	8.5
3	☐	5.000	5.150	2953.70	0.0007	P	3.0	3.0
4	☐	10.000	9.707	4714.26	0.0011	P	5.3	-2.9
5	☐	100.000	98.591	39220.46	0.0091	P	5.7	-1.4
6	☐	200.000	200.714	77654.86	0.0184	P	1.1	0.4

y = 9.0661E-005 * x + 2.1029E-004
R = 1.0000
DL = 0.7828 ppb
BEC = 2.32 ppb

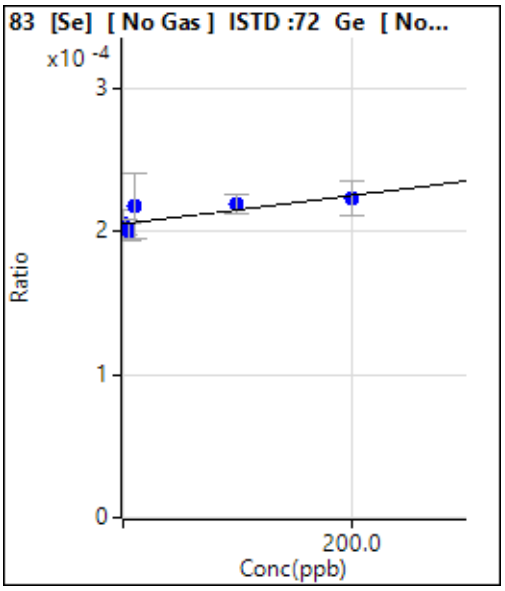
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	183.33	0.0001	P	11.2	
2	☐	2.000	2.814	416.69	0.0003	P	9.1	40.7
3	☐	5.000	4.717	566.69	0.0004	P	7.3	-5.7
4	☐	10.000	10.312	1023.39	0.0008	P	7.4	3.1
5	☐	100.000	103.225	8559.53	0.0064	P	2.7	3.2
6	☐	200.000	198.371	16249.99	0.0121	P	5.7	-0.8

y = 6.0403E-005 * x + 1.3338E-004
R = 0.9998
DL = 0.7413 ppb
BEC = 2.208 ppb

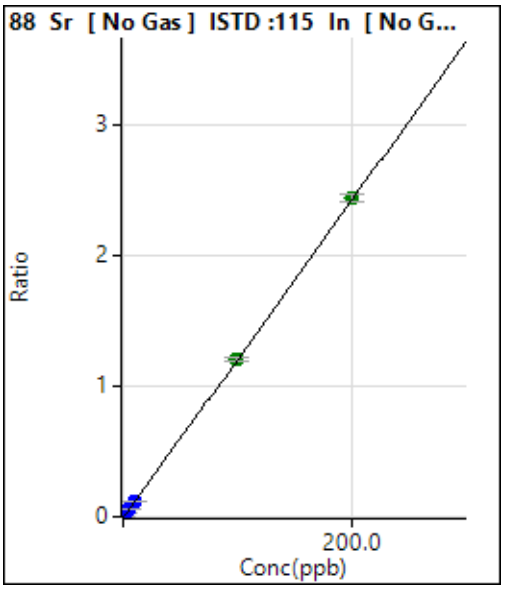
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	893.38	0.0002	P	10.2	
2	☐	2.000	-21.422	883.38	0.0002	P	5.7	-1171.1
3	☐	5.000	-54.975	870.04	0.0002	P	6.1	-1199.5
4	☐	10.000	123.969	940.05	0.0002	P	21.2	1139.7
5	☐	100.000	133.868	936.72	0.0002	P	6.3	33.9
6	☐	200.000	179.101	940.05	0.0002	P	11.0	-10.4

y = 1.0027E-007 * x + 2.0493E-004
R = 0.7832
DL = 624.1 ppb
BEC = 2044 ppb

Weight: <None>
Min Conc: <None>

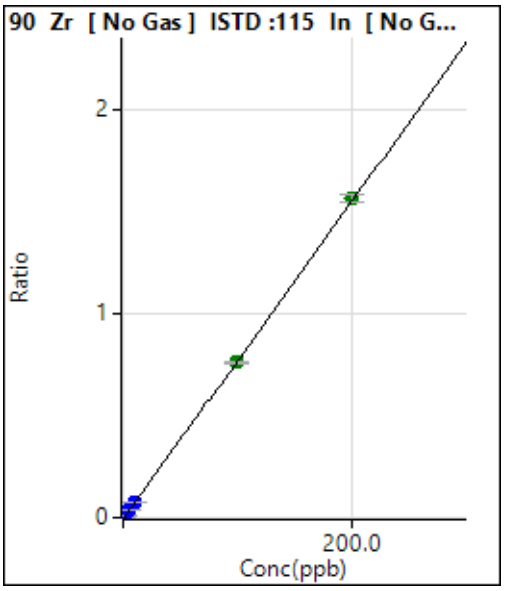


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7812.39	0.0015	P	1.5	
2	☐	2.000	2.010	133137.65	0.0260	P	1.1	0.5
3	☐	5.000	4.997	316180.22	0.0623	P	2.8	-0.1
4	☐	10.000	9.918	627104.84	0.1222	P	2.8	-0.8
5	☐	100.000	98.854	6074094.70	1.2049	A	1.7	-1.1
6	☐	200.000	200.577	11988085.24	2.4432	A	2.4	0.3

y = 0.0122 * x + 0.0015
R = 1.0000
DL = 0.005412 ppb
BEC = 0.1238 ppb

Weight: <None>
Min Conc: <None>

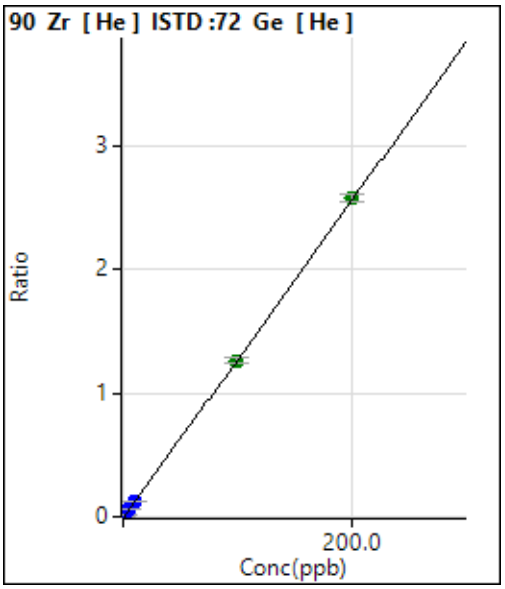
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1456.77	0.0003	P	7.1	
2	☐	2.000	1.680	68439.61	0.0134	P	0.8	-16.0
3	☐	5.000	4.447	176951.56	0.0349	P	1.5	-11.1
4	☐	10.000	9.236	370131.15	0.0721	P	2.6	-7.6
5	☐	100.000	97.794	3837519.84	0.7612	A	1.9	-2.2
6	☐	200.000	201.158	7681848.01	1.5655	A	2.2	0.6

y = 0.0078 * x + 2.8096E-004
R = 0.9999
DL = 0.007646 ppb
BEC = 0.03611 ppb

Weight: <None>
Min Conc: <None>

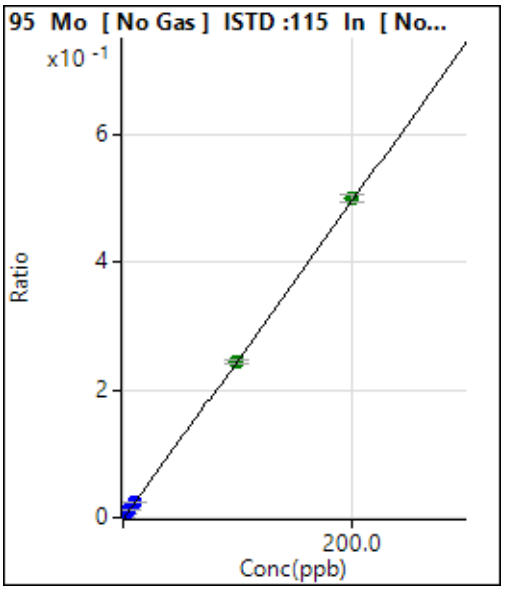


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.82	0.0013	P	10.5	
2	☐	2.000	1.645	30808.94	0.0224	P	3.3	-17.7
3	☐	5.000	4.338	77311.14	0.0570	P	1.9	-13.2
4	☐	10.000	9.413	165455.46	0.1223	P	1.6	-5.9
5	☐	100.000	98.526	1703700.91	1.2680	A	2.8	-1.5
6	☐	200.000	200.786	3465216.30	2.5826	A	1.9	0.4

y = 0.0129 * x + 0.0013
R = 1.0000
DL = 0.03127 ppb
BEC = 0.09942 ppb

Weight: <None>
Min Conc: <None>

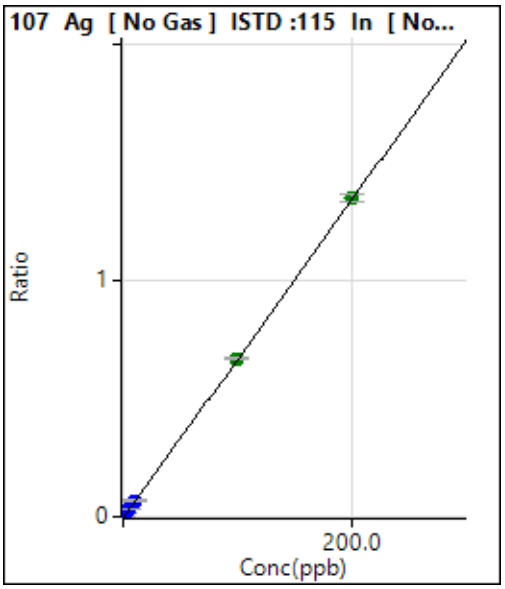
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	186.67	0.0000	P	7.2	
2	☐	2.000	1.969	25327.51	0.0049	P	3.4	-1.6
3	☐	5.000	4.905	62170.55	0.0123	P	1.8	-1.9
4	☐	10.000	9.766	125029.71	0.0244	P	1.9	-2.3
5	☐	100.000	97.895	1229887.35	0.2440	A	2.1	-2.1
6	☐	200.000	201.067	2458478.61	0.5011	A	2.7	0.5

y = 0.0025 * x + 3.6018E-005
R = 0.9999
DL = 0.003127 ppb
BEC = 0.01445 ppb

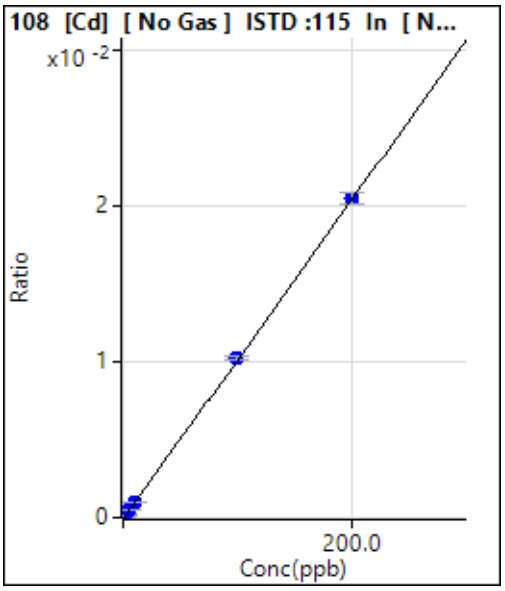
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	603.36	0.0001	P	15.7	
2	☐	2.000	2.047	71175.99	0.0139	P	1.9	2.4
3	☐	5.000	5.143	176036.40	0.0347	P	2.4	2.9
4	☐	10.000	10.175	351688.51	0.0685	P	1.6	1.7
5	☐	100.000	99.331	3368375.68	0.6682	A	1.7	-0.7
6	☐	200.000	200.322	6611304.90	1.3474	A	2.7	0.2

y = 0.0067 * x + 1.1626E-004
R = 1.0000
DL = 0.00812 ppb
BEC = 0.01729 ppb

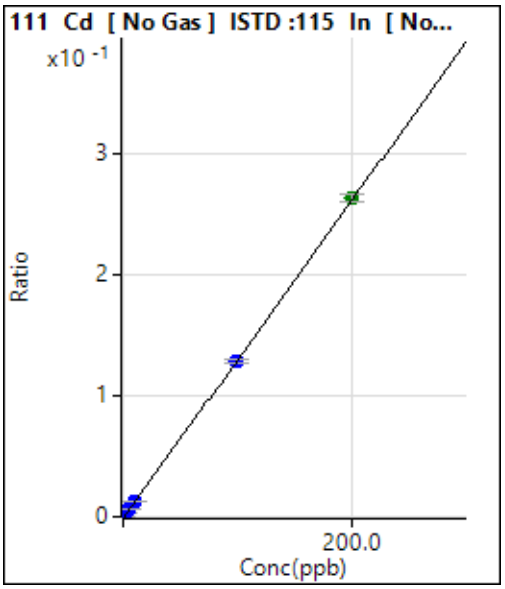
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.734	913.38	0.0002	P	16.7	-13.3
3	☐	5.000	4.931	2563.64	0.0005	P	10.4	-1.4
4	☐	10.000	9.680	5087.73	0.0010	P	10.4	-3.2
5	☐	100.000	99.811	51532.94	0.0102	P	2.6	-0.2
6	☐	200.000	200.115	100560.89	0.0205	P	3.3	0.1

y = 1.0241E-004 * x + 6.4510E-007
R = 1.0000
DL = 0.03273 ppb
BEC = 0.006299 ppb

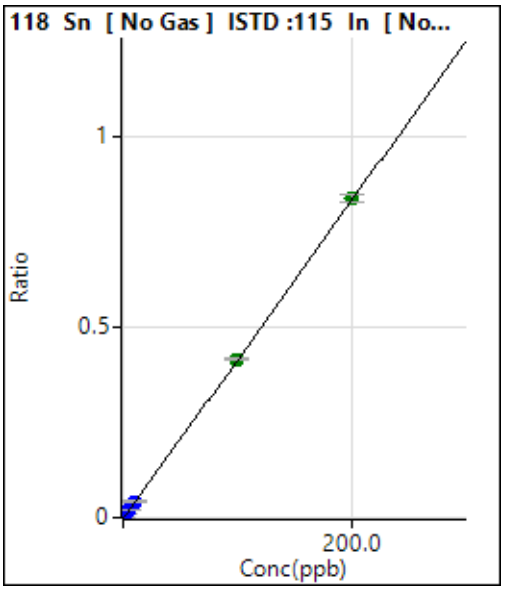
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-0.24	0.0000	P	-3402.	
2	☐	2.000	2.073	13928.58	0.0027	P	8.9	3.7
3	☐	5.000	4.982	33117.89	0.0065	P	1.3	-0.4
4	☐	10.000	9.978	67081.60	0.0131	P	2.0	-0.2
5	☐	100.000	98.478	650560.95	0.1291	P	2.3	-1.5
6	☐	200.000	200.762	1290978.25	0.2631	A	2.5	0.4

y = 0.0013 * x - 5.8477E-008
R = 1.0000
DL = 0.004555 ppb
BEC = -4.462E-05 ppb

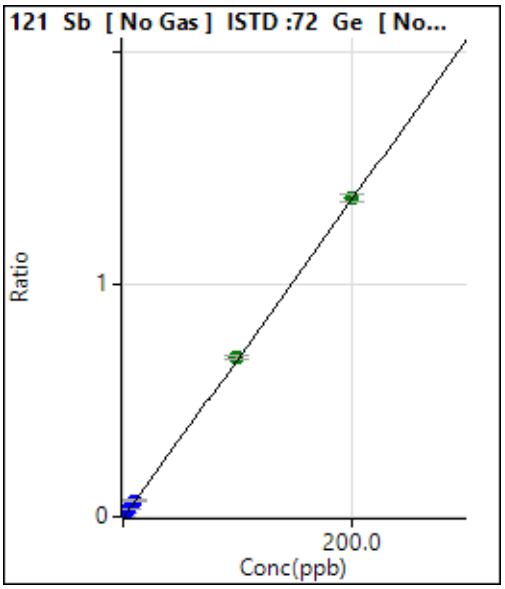
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4667.58	0.0009	P	7.7	
2	☐	2.000	1.978	46879.95	0.0091	P	2.3	-1.1
3	☐	5.000	4.924	108709.76	0.0214	P	2.0	-1.5
4	☐	10.000	10.030	219191.69	0.0427	P	1.7	0.3
5	☐	100.000	99.268	2091126.43	0.4148	A	1.5	-0.7
6	☐	200.000	200.367	4103949.42	0.8364	A	2.2	0.2

y = 0.0042 * x + 9.0048E-004
R = 1.0000
DL = 0.04998 ppb
BEC = 0.216 ppb

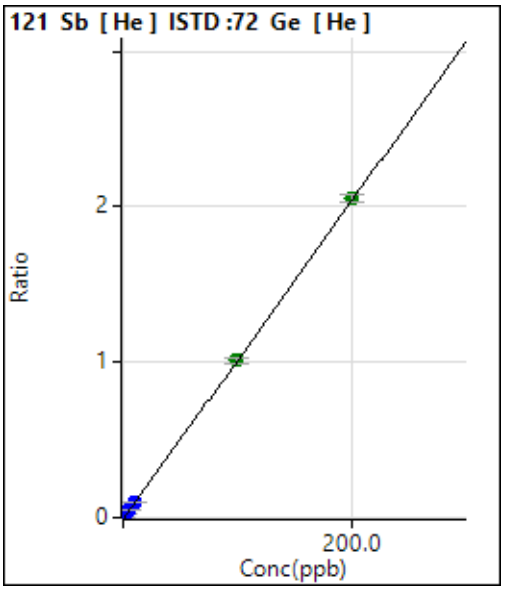
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.69	0.0001	P	7.2	
2	☐	2.000	1.996	60063.03	0.0138	P	3.0	-0.2
3	☐	5.000	4.948	148398.70	0.0340	P	2.6	-1.0
4	☐	10.000	10.187	302257.92	0.0699	P	2.2	1.9
5	☐	100.000	99.551	2926320.48	0.6825	A	2.4	-0.4
6	☐	200.000	200.217	5789795.33	1.3725	A	2.3	0.1

y = 0.0069 * x + 1.0707E-004
R = 1.0000
DL = 0.003375 ppb
BEC = 0.01562 ppb

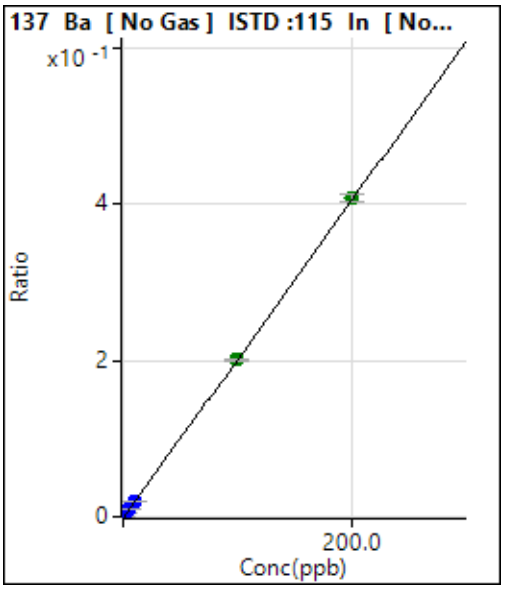
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	253.34	0.0002	P	22.6	
2	☐	2.000	1.945	27609.22	0.0201	P	1.3	-2.7
3	☐	5.000	4.873	67863.70	0.0501	P	2.1	-2.5
4	☐	10.000	9.941	137943.19	0.1020	P	3.9	-0.6
5	☐	100.000	98.722	1358293.83	1.0109	A	3.0	-1.3
6	☐	200.000	200.646	2756499.75	2.0544	A	2.1	0.3

y = 0.0102 * x + 1.8430E-004
R = 1.0000
DL = 0.01221 ppb
BEC = 0.018 ppb

Weight: <None>
Min Conc: <None>

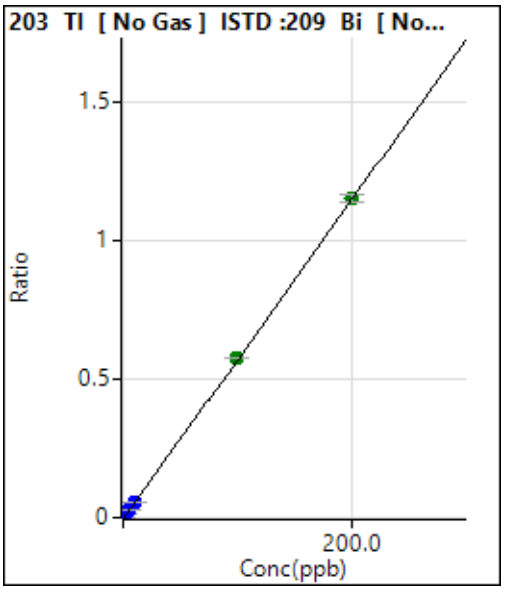


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	896.71	0.0002	P	4.1	
2	☐	2.000	2.070	22452.86	0.0044	P	2.7	3.5
3	☐	5.000	5.103	53499.26	0.0105	P	2.6	2.1
4	☐	10.000	9.952	104682.67	0.0204	P	2.0	-0.5
5	☐	100.000	98.825	1013632.77	0.2011	A	1.2	-1.2
6	☐	200.000	200.587	2001738.25	0.4079	A	2.5	0.3

y = 0.0020 * x + 1.7291E-004
R = 1.0000
DL = 0.01052 ppb
BEC = 0.08506 ppb

Weight: <None>
Min Conc: <None>

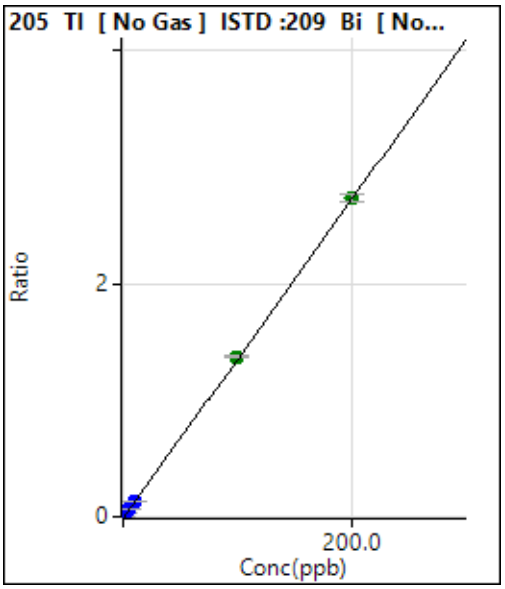
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	113.33	0.0000	P	35.9	
2	☐	2.000	1.982	52667.60	0.0114	P	2.8	-0.9
3	☐	5.000	4.926	131454.82	0.0284	P	2.2	-1.5
4	☐	10.000	9.872	263846.17	0.0569	P	1.7	-1.3
5	☐	100.000	100.064	2587898.45	0.5765	A	1.0	0.1
6	☐	200.000	199.977	5103374.92	1.1522	A	2.7	0.0

y = 0.0058 * x + 2.4422E-005
R = 1.0000
DL = 0.004562 ppb
BEC = 0.004239 ppb

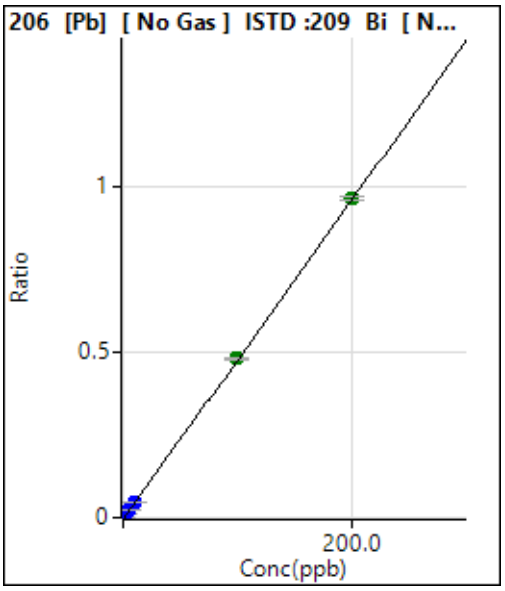
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	243.34	0.0001	P	18.8	
2	☐	2.000	1.973	124291.66	0.0270	P	2.0	-1.4
3	☐	5.000	4.897	310000.76	0.0670	P	1.0	-2.1
4	☐	10.000	9.845	624127.84	0.1346	P	1.3	-1.6
5	☐	100.000	100.082	6140256.16	1.3679	A	1.3	0.1
6	☐	200.000	199.970	12105944.40	2.7331	A	2.4	0.0

y = 0.0137 * x + 5.2440E-005
R = 1.0000
DL = 0.002162 ppb
BEC = 0.003837 ppb

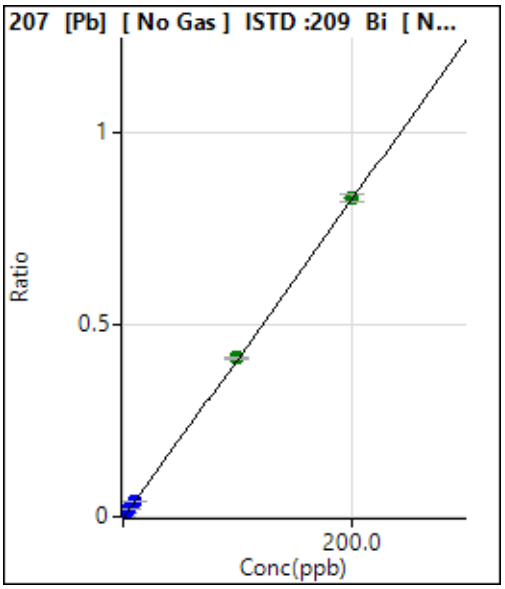
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	466.68	0.0001	P	9.2	
2	☐	2.000	2.006	44870.50	0.0098	P	2.0	0.3
3	☐	5.000	4.984	111428.16	0.0241	P	1.6	-0.3
4	☐	10.000	10.031	224207.78	0.0484	P	1.3	0.3
5	☐	100.000	99.533	2149761.58	0.4789	A	1.2	-0.5
6	☐	200.000	200.232	4267185.87	0.9634	A	1.6	0.1

y = 0.0048 * x + 1.0056E-004
R = 1.0000
DL = 0.005757 ppb
BEC = 0.0209 ppb

Weight: <None>
Min Conc: <None>

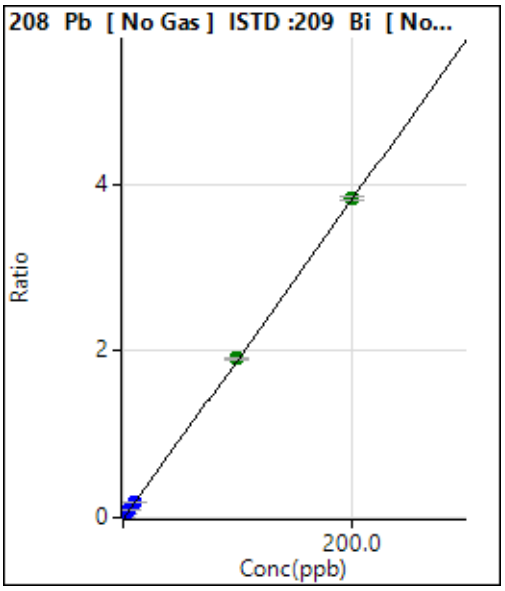


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	420.02	0.0001	P	33.4	
2	☐	2.000	1.969	37961.12	0.0083	P	2.3	-1.5
3	☐	5.000	4.940	95165.85	0.0206	P	1.3	-1.2
4	☐	10.000	9.983	192215.65	0.0415	P	1.2	-0.2
5	☐	100.000	99.707	1854863.41	0.4132	A	1.1	-0.3
6	☐	200.000	200.149	3673857.97	0.8294	A	2.0	0.1

y = 0.0041 * x + 9.0507E-005
R = 1.0000
DL = 0.02192 ppb
BEC = 0.02184 ppb

Weight: <None>
Min Conc: <None>

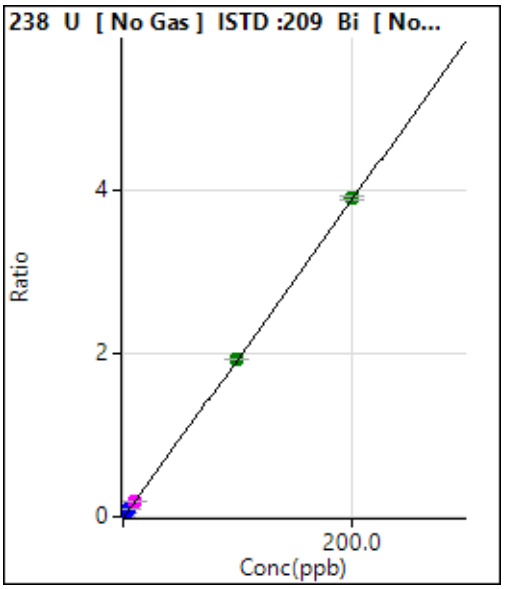
Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1946.76	0.0004	P	9.2	
2	☐	2.000	1.988	177134.63	0.0385	P	2.0	-0.6
3	☐	5.000	4.957	441414.48	0.0954	P	1.3	-0.9
4	☐	10.000	10.011	891156.12	0.1922	P	1.1	0.1
5	☐	100.000	99.856	8588625.03	1.9134	A	1.3	-0.1
6	☐	200.000	200.073	16978853.50	3.8332	A	1.8	0.0

y = 0.0192 * x + 4.1940E-004
R = 1.0000
DL = 0.006041 ppb
BEC = 0.02189 ppb

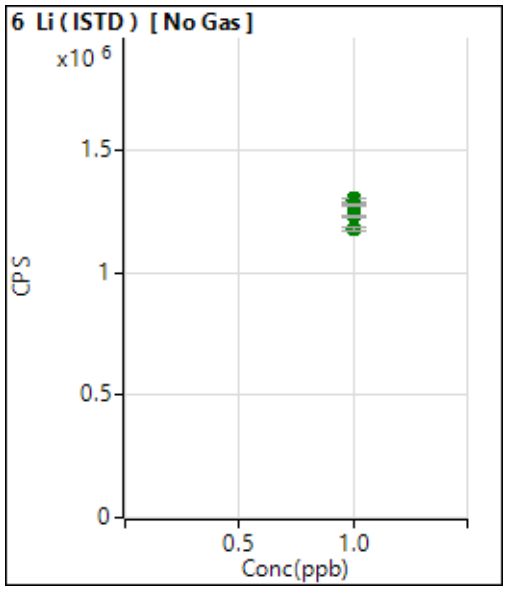
Weight: <None>
Min Conc: <None>



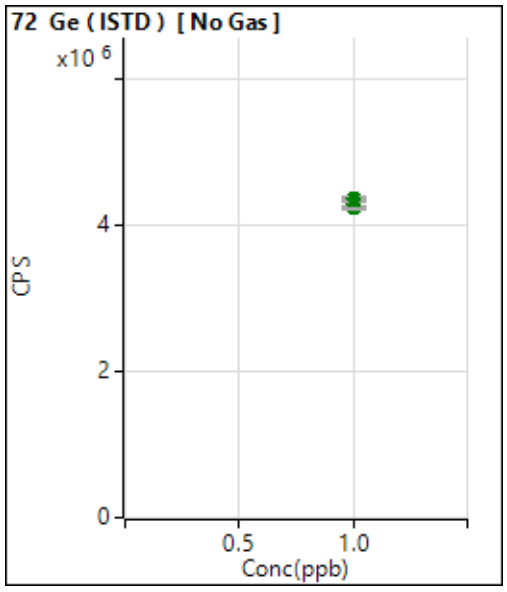
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	546.69	0.0001	P	12.0	
2	☐	2.000	1.890	170411.61	0.0370	P	2.4	-5.5
3	☐	5.000	4.711	426581.55	0.0922	P	1.2	-5.8
4	☐	10.000	9.582	868651.94	0.1873	M	2.0	-4.2
5	☐	100.000	99.206	8699904.46	1.9384	A	0.6	-0.8
6	☐	200.000	200.426	17346070.99	3.9161	A	1.8	0.2

y = 0.0195 * x + 1.1772E-004
R = 1.0000
DL = 0.002167 ppb
BEC = 0.006025 ppb

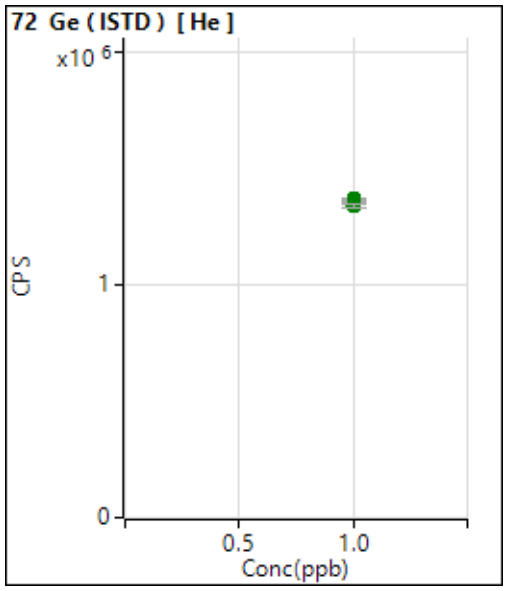
Weight: <None>
Min Conc: <None>



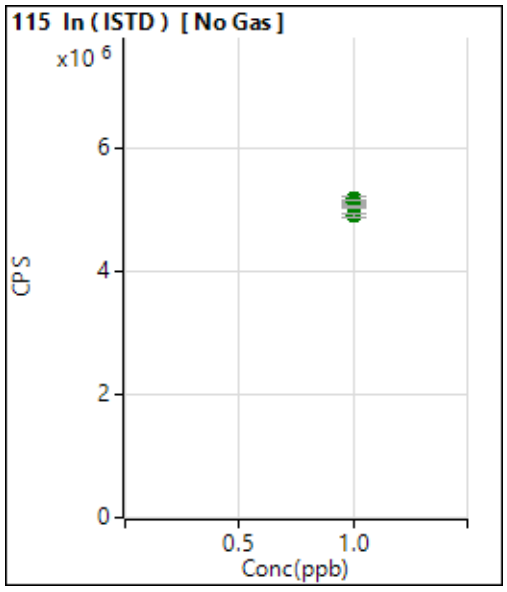
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1303313.05		A	0.4	
2	☐	1.000		1293096.02		A	1.6	
3	☐	1.000		1283534.37		A	0.3	
4	☐	1.000		1275635.33		A	0.1	
5	☐	1.000		1229032.35		A	0.2	
6	☐	1.000		1176331.61		A	1.4	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4359457.85		A	0.3	
2	☐	1.000		4356546.60		A	0.3	
3	☐	1.000		4362439.94		A	0.8	
4	☐	1.000		4322696.60		A	0.9	
5	☐	1.000		4288391.50		A	0.9	
6	☐	1.000		4218912.75		A	0.6	

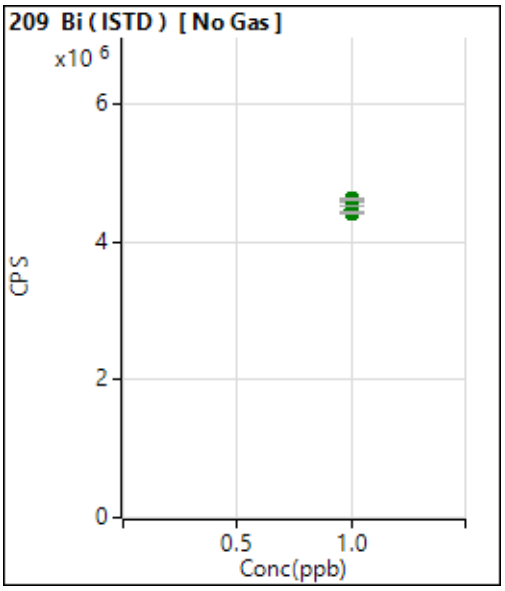


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1374323.41		A	0.2	
2	☐	1.000		1373552.69		A	0.4	
3	☐	1.000		1355522.32		A	1.2	
4	☐	1.000		1352998.88		A	0.5	
5	☐	1.000		1343953.73		A	1.3	
6	☐	1.000		1341850.97		A	1.3	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		5185395.31		A	1.3	
2	☐	1.000		5125227.36		A	0.7	
3	☐	1.000		5072595.80		A	0.8	
4	☐	1.000		5131137.70		A	1.1	
5	☐	1.000		5041006.13		A	0.2	
6	☐	1.000		4907591.41		A	1.2	

Calibration for 105_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4642202.64		A	0.5	
2	☐	1.000		4601017.85		A	0.3	
3	☐	1.000		4628663.99		A	1.0	
4	☐	1.000		4636493.99		A	0.6	
5	☐	1.000		4488256.81		A	1.3	
6	☐	1.000		4429482.12		A	0.6	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	107LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:21:05-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.074	2.074	2.94	106555	0.00	2	
Be	9	1	No Gas	2.064	2.064	2.88	10229	0.02	2	
V	51	2	He	1.897	1.897	0.98	25822	0.01	2	
Cr	52	2	He	2.029	2.029	2.64	37251	0.01	2	
Fe	56	2	He	204.821	204.821	1.56	2503207	0.01	200	
Se	78	2	He	1.919	1.919	12.83	529	0.36	2	
As	75	2	He	2.029	2.029	3.60	4667	0.04	2	
Ca	44	2	He	205.712	205.712	3.08	16800	1.22	200	
Na	23	2	He	182.766	182.766	1.34	623705	0.03	200	
Mg	24	2	He	206.133	206.133	1.41	239072	0.09	200	
K	39	2	He	205.080	205.080	1.68	405806	0.05	200	
Mn	55	2	He	2.067	2.067	1.13	20375	0.01	2	
Co	59	2	He	2.067	2.067	0.91	42325	0.00	2	
Ni	60	2	He	2.023	2.023	4.44	11502	0.02	2	
Cu	63	2	He	2.056	2.056	0.99	31704	0.01	2	
Zn	66	2	He	2.290	2.290	4.59	8083	0.03	2	
Al	27	2	He	2.735	2.735	6.73	7716	0.04	2	NewName Main CR1 Failed
B	11	1	No Gas	12.418	12.418	2.68	53413	0.02	10	
Al	27	1	No Gas	2.697	2.697	8.19	256732	0.00	2	NewName Main CR1 Failed
Si	28	1	No Gas	10.854	10.854	10.68	642158	0.00	10	
Ag	107	1	No Gas	2.101	2.101	3.19	71538	0.00	2	
Cd	111	1	No Gas	2.022	2.022	2.71	13304	0.02	2	
Sr	88	1	No Gas	2.035	2.035	2.47	131950	0.00	2	
Mo	95	1	No Gas	2.031	2.031	2.32	25595	0.01	2	
Sn	118	1	No Gas	2.033	2.033	2.24	47090	0.00	2	
Sb	121	1	No Gas	2.071	2.071	3.34	61442	0.00	2	
Ba	137	1	No Gas	2.121	2.121	4.83	22523	0.01	2	
Tl	205	1	No Gas	1.992	1.992	2.01	124344	0.00	2	
Tl	203	1	No Gas	1.988	1.988	1.22	52319	0.00	2	
Pb	208	1	No Gas	2.027	2.027	2.06	178892	0.00	2	
U	238	1	No Gas	1.917	1.917	1.50	171274	0.00	2	
Ca	43	2	He	233.495	233.495	5.41	1043	22.38	200	
Sb	121	2	He	2.080	2.080	2.41	28929	0.01	2	
Ti	47	2	He	1.959	1.959	4.66	820	0.24	200	
Cu	63	1	No Gas	2.117	2.117	2.60	55442	0.00	2	
Se	82	1	No Gas	2.358	2.358	9.37	1823	0.13	2	
Zr	90	1	No Gas	1.724	1.724	1.94	68802	0.00	2	
Zr	90	2	He	1.726	1.726	3.37	31591	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1248679	1.14	1303313	95.81	70	120	
Ge	72	2	He	1346393	1.20	1374323	97.97	70	120	
Ge	72	1	No Gas	4298785	1.98	4359458	98.61	70	120	
In	115	1	No Gas	5022570	1.07	5185395	96.86	70	120	
Bi	209	1	No Gas	4557908	0.94	4642203	98.18	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	108LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:23:30-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	098CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	5.162	5.162	2.45	161216	0.00	5	
Be	9	1	No Gas	4.990	4.990	2.91	24581	0.02	5	
V	51	2	He	5.048	5.048	1.34	61371	0.01	5	
Cr	52	2	He	5.217	5.217	2.09	78009	0.01	5	
Fe	56	2	He	511.235	511.235	0.44	6214204	0.01	500	
Se	78	2	He	5.066	5.066	6.19	1064	0.48	5	
As	75	2	He	5.053	5.053	0.72	11052	0.05	5	
Ca	44	2	He	514.349	514.349	0.68	38239	1.35	500	
Na	23	2	He	492.920	492.920	1.12	1206206	0.04	500	
Mg	24	2	He	514.532	514.532	0.36	595166	0.09	500	
K	39	2	He	517.739	517.739	0.82	807787	0.06	500	
Mn	55	2	He	5.111	5.111	2.21	49087	0.01	5	
Co	59	2	He	5.207	5.207	1.15	106500	0.00	5	
Ni	60	2	He	5.218	5.218	1.03	28356	0.02	5	
Cu	63	2	He	5.164	5.164	0.89	76251	0.01	5	
Zn	66	2	He	5.105	5.105	1.06	15626	0.03	5	
Al	27	2	He	6.398	6.398	5.98	10361	0.06	5	
B	11	1	No Gas	26.444	26.444	1.55	97333	0.03	25	
Al	27	1	No Gas	6.327	6.327	2.88	343381	0.00	5	
Si	28	1	No Gas	25.842	25.842	2.03	782830	0.00	25	
Ag	107	1	No Gas	5.197	5.197	2.18	176707	0.00	5	
Cd	111	1	No Gas	5.017	5.017	1.38	33133	0.02	5	
Sr	88	1	No Gas	5.054	5.054	1.93	317659	0.00	5	
Mo	95	1	No Gas	5.094	5.094	1.42	64143	0.01	5	
Sn	118	1	No Gas	5.017	5.017	1.62	109960	0.00	5	
Sb	121	1	No Gas	5.173	5.173	2.59	151803	0.00	5	
Ba	137	1	No Gas	5.063	5.063	1.07	52743	0.01	5	
Tl	205	1	No Gas	4.982	4.982	1.26	311598	0.00	5	
Tl	203	1	No Gas	4.977	4.977	2.61	131230	0.00	5	
Pb	208	1	No Gas	5.014	5.014	1.62	441148	0.00	5	
U	238	1	No Gas	4.801	4.801	1.54	429473	0.00	5	
Ca	43	2	He	550.443	550.443	7.52	2324	23.69	500	
Sb	121	2	He	5.097	5.097	0.74	70538	0.01	5	
Ti	47	2	He	5.374	5.374	13.13	2227	0.24	5	
Cu	63	1	No Gas	5.304	5.304	1.81	131690	0.00	5	
Se	82	1	No Gas	5.046	5.046	3.56	2850	0.18	5	
Zr	90	1	No Gas	4.589	4.589	1.40	181351	0.00	5	
Zr	90	2	He	4.662	4.662	2.06	82441	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1241601	0.88	1303313	95.26	70	120	

Sample Report

Ge	72	2	He	1347060	0.91	1374323	98.02	70	120	
Ge	72	1	No Gas	4268485	0.49	4359458	97.91	70	120	
In	115	1	No Gas	5039785	0.79	5185395	97.19	70	120	
Bi	209	1	No Gas	4572548	0.28	4642203	98.50	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICCB
Data File Name	109_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:25:54-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.079	30.8	70606	0.3	0.5	
Be	9	1	No Gas	0.003	43.4	32	24.1	0.5	
V	51	2	He	-0.105	-10.4	3292	4.6	2.5	
Cr	52	2	He	0.076	50.1	12409	3.8	2.5	
Fe	56	2	He	2.114	4.6	50262	2.9	100	
Se	78	2	He	0.032	169.6	211	4.0	1	
As	75	2	He	-0.017	-141.7	353	14.0	2.5	
Ca	44	2	He	-8.129	-17.6	1977	5.6	100	
Na	23	2	He	-19.528	-5.1	246596	0.9	100	
Mg	24	2	He	0.701	9.3	2050	3.0	100	
K	39	2	He	-2.030	-8.5	141143	0.8	100	
Mn	55	2	He	0.092	13.1	1780	5.5	2.5	
Co	59	2	He	0.000	722.4	107	51.6	2.5	
Ni	60	2	He	0.035	39.7	1030	7.9	2.5	
Cu	63	2	He	-0.008	-138.4	2170	7.0	1	
Zn	66	2	He	0.325	29.4	2847	8.4	2.5	
Al	27	2	He	-3.124	-12.6	3527	7.2	5	
B	11	1	No Gas	1.839	10.7	19856	3.1	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	-3.099	-5.4	115146	3.0	5	
Si	28	1	No Gas	10.701	6.7	643898	0.6	10	ICB Main CR1 Failed
Ag	107	1	No Gas	0.004	68.6	720	12.5	2.5	
Cd	111	1	No Gas	0.001	268.9	5	286.2	1	
Sr	88	1	No Gas	-0.050	-1.9	4594	1.1	2.5	
Mo	95	1	No Gas	0.011	16.6	327	7.1	2.5	
Sn	118	1	No Gas	0.127	18.8	7262	6.7	5	
Sb	121	1	No Gas	0.030	6.3	1347	3.8	2.5	
Ba	137	1	No Gas	0.142	8.4	2344	6.0	2.5	
Tl	205	1	No Gas	0.009	26.9	833	19.4	1	
Tl	203	1	No Gas	0.007	17.8	310	11.6	1	
Pb	208	1	No Gas	0.018	9.0	3480	4.3	2.5	
U	238	1	No Gas	0.002	12.5	760	3.9	2.5	
Ca	43	2	He	-8.725	-58.8	67	31.2	100	
Sb	121	2	He	0.028	11.4	643	7.3	2.5	
Ti	47	2	He	-0.007	-323.0	10	100.0	2.5	
Se	82	1	No Gas	0.216	129.5	993	11.6	1	
Zr	90	1	No Gas	0.101	20.9	5405	14.6	2.5	
Zr	90	2	He	0.081	14.8	3150	5.8	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1247261	0.46	1303313	95.70	70	120	
Ge	72	2	He	1359827	0.91	1374323	98.95	70	120	
Ge	72	1	No Gas	4319589	0.58	4359458	99.09	70	120	
In	115	1	No Gas	5082771	0.78	5185395	98.02	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	4594606	0.34	4642203	98.97	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	111_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:38:09-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	101.071	3.114	1886250	2.62	100	101.1	90	110	
Be	9	1	No Gas	103.621	3.157	512663	2.77	100	103.6	90	110	
V	51	2	He	104.775	2.506	1181450	2.41	100	104.8	90	110	
Cr	52	2	He	104.806	2.278	1345863	2.25	100	104.8	90	110	
Fe	56	2	He	10246.892	2.084	123608165	1.98	10000	102.5	90	110	
Se	78	2	He	106.644	2.226	18256	1.78	100	106.6	90	110	
As	75	2	He	104.346	2.187	219778	2.02	100	104.3	90	110	
Ca	44	2	He	10275.749	2.237	713163	1.15	10000	102.8	90	110	
Na	23	2	He	10145.847	2.600	19251452	2.65	10000	101.5	90	110	
Mg	24	2	He	10260.819	2.563	11799759	2.71	10000	102.6	90	110	
K	39	2	He	10407.078	2.368	13463871	2.05	10000	104.1	90	110	
Mn	55	2	He	104.753	1.896	984758	2.00	100	104.8	90	110	
Co	59	2	He	104.840	2.061	2134091	1.99	100	104.8	90	110	
Ni	60	2	He	105.164	0.559	553328	0.77	100	105.2	90	110	
Cu	63	2	He	104.021	2.267	1486668	2.16	100	104.0	90	110	
Zn	66	2	He	104.831	1.175	281639	1.05	100	104.8	90	110	
Al	27	2	He	102.462	2.678	79316	3.06	100	102.5	90	110	
B	11	1	No Gas	492.931	2.891	1575813	2.57	500	98.6	90	110	
Al	27	1	No Gas	103.031	3.170	2690330	2.97	100	103.0	90	110	
Si	28	1	No Gas	525.375	3.105	5599760	2.65	5000	10.5	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	104.363	2.857	3464453	2.17	100	104.4	90	110	
Cd	111	1	No Gas	103.495	1.521	669337	0.78	100	103.5	90	110	
Sr	88	1	No Gas	104.164	2.767	6265162	2.07	100	104.2	90	110	
Mo	95	1	No Gas	102.079	2.999	1255427	2.33	100	102.1	90	110	
Sn	118	1	No Gas	102.632	2.138	2116376	1.42	100	102.6	90	110	
Sb	121	1	No Gas	104.401	1.405	3045350	1.34	100	104.4	90	110	
Ba	137	1	No Gas	104.388	3.228	1048066	2.47	100	104.4	90	110	
Tl	205	1	No Gas	99.208	1.299	6012779	2.40	100	99.2	90	110	
Tl	203	1	No Gas	99.106	1.498	2532181	2.69	100	99.1	90	110	
Pb	208	1	No Gas	103.696	1.404	8810548	2.38	100	103.7	90	110	
U	238	1	No Gas	99.403	1.003	8612371	2.04	100	99.4	90	110	
Ca	43	2	He	10324.517	3.537	41616	3.10	10000	103.2	90	110	
Sb	121	2	He	102.567	2.585	1409192	2.38	100	102.6	90	110	
Ti	47	2	He	103.702	2.854	42572	1.56	100	103.7	90	110	
Cu	63	1	No Gas	107.222	1.956	2573912	2.39	100	107.2	90	110	
Se	82	1	No Gas	103.431	1.705	40795	1.66	100	103.4	90	110	
Zr	90	1	No Gas	86.213	2.532	3312036	1.82	100	86.2	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	84.278	2.331	1455454	1.93	100	84.3	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1247909	0.48	1303313	95.75	70	120	
Ge	72	2	He	1341856	1.29	1374323	97.64	70	120	
Ge	72	1	No Gas	4255123	0.73	4359458	97.61	70	120	
In	115	1	No Gas	4935669	0.96	5185395	95.18	70	120	
Bi	209	1	No Gas	4433929	1.19	4642203	95.51	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	112_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:40:35-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.015	-267.4	72469	1.9	0.5	
Be	9	1	No Gas	0.012	22.3	80	18.8	0.5	
V	51	2	He	-0.177	-6.2	2447	5.6	2.5	
Cr	52	2	He	-0.141	-22.4	9510	4.0	2.5	
Fe	56	2	He	0.859	11.8	34550	3.7	100	
Se	78	2	He	0.015	1664.5	205	19.7	2	
As	75	2	He	-0.019	-191.3	347	22.5	2.5	
Ca	44	2	He	-12.004	-4.9	1687	2.5	100	
Na	23	2	He	-20.595	-4.6	241981	0.8	100	
Mg	24	2	He	0.020	239.7	1243	4.0	100	
K	39	2	He	-2.011	-87.7	139672	1.8	100	
Mn	55	2	He	0.031	32.9	1187	7.6	2.5	
Co	59	2	He	0.004	60.1	177	26.8	2.5	
Ni	60	2	He	-0.020	-12.9	730	2.4	2.5	
Cu	63	2	He	-0.043	-17.8	1643	6.4	2	
Zn	66	2	He	-0.037	-104.6	1850	6.1	2.5	
Al	27	2	He	-4.658	-2.2	2387	3.4	5	
B	11	1	No Gas	4.052	13.0	28243	6.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-4.683	-0.9	76206	0.9	5	
Si	28	1	No Gas	4.530	13.5	584196	1.3	10	
Ag	107	1	No Gas	0.009	5.7	900	1.9	2.5	
Cd	111	1	No Gas	0.007	12.0	46	12.0	1	
Sr	88	1	No Gas	-0.078	-4.0	2780	6.9	2.5	
Mo	95	1	No Gas	0.060	30.9	927	24.9	2.5	
Sn	118	1	No Gas	0.074	19.0	6065	4.9	5	
Sb	121	1	No Gas	0.060	7.7	2257	6.8	2.5	
Ba	137	1	No Gas	-0.030	-26.4	560	14.6	2.5	
Tl	205	1	No Gas	0.117	50.7	7423	48.6	1	
Tl	203	1	No Gas	0.122	53.5	3271	51.2	1	
Pb	208	1	No Gas	0.018	12.1	3397	4.9	2.5	
U	238	1	No Gas	0.008	30.7	1240	17.0	2.5	
Ca	43	2	He	-8.541	-34.7	67	17.3	100	
Sb	121	2	He	0.044	24.8	860	17.6	2.5	
Ti	47	2	He	0.001	3859.7	13	86.6	2.5	
Cu	63	1	No Gas	-0.047	-33.0	3084	10.9	2.5	
Se	82	1	No Gas	-0.091	-119.4	873	3.7	2	
Zr	90	1	No Gas	0.118	17.8	6015	13.6	2.5	
Zr	90	2	He	0.069	17.3	2907	7.4	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1311407	0.89	1303313	100.62	70	120	
Ge	72	2	He	1345396	0.64	1374323	97.90	70	120	
Ge	72	1	No Gas	4325035	1.18	4359458	99.21	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5023182	0.10	5185395	96.87	70	120	
Bi	209	1	No Gas	4499105	0.67	4642203	96.92	70	120	

Sample Report

Sample Table

Sample Name	MBLK-212449
Data File Name	113SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T15:45:46-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	098CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	-0.056	-0.056	-80.92	72279	0.00	2000	
Be	9	1	No Gas	0.002	0.002	50.48	25	0.01	2000	
V	51	2	He	-0.197	-0.197	-1.89	2235	-0.01	2000	
Cr	52	2	He	-0.214	-0.214	-13.17	8623	0.00	2000	
Fe	56	2	He	-0.286	-0.286	-31.68	20821	0.00	200000	
Se	78	2	He	0.082	0.082	105.74	218	0.04	2000	
As	75	2	He	-0.031	-0.031	-47.36	322	-0.01	2000	
Ca	44	2	He	-13.238	-13.238	-16.98	1610	-0.82	200000	
Na	23	2	He	-21.032	-21.032	-3.37	242385	-0.01	200000	
Mg	24	2	He	0.092	0.092	43.24	1333	0.01	200000	
K	39	2	He	0.372	0.372	481.85	143454	0.00	200000	
Mn	55	2	He	0.148	0.148	5.85	2300	0.01	2000	
Co	59	2	He	0.000	0.000	800.37	107	0.00	2000	
Ni	60	2	He	0.032	0.032	12.71	1007	0.00	2000	
Cu	63	2	He	0.031	0.031	22.57	2710	0.00	2000	
Zn	66	2	He	0.346	0.346	24.01	2890	0.01	2000	
Al	27	2	He	-5.687	-5.687	-10.68	1657	-0.34	2000	
B	11	1	No Gas	0.632	0.632	19.67	16999	0.00	2000	
Al	27	1	No Gas	-5.876	-5.876	-0.23	46320	-0.01	2000	
Si	28	1	No Gas	5.661	5.661	13.25	589521	0.00	2000	
Ag	107	1	No Gas	0.008	0.008	41.88	850	0.00	2000	
Cd	111	1	No Gas	0.001	0.001	224.22	9	0.02	2000	
Sr	88	1	No Gas	-0.103	-0.103	-1.59	1273	-0.01	2000	
Mo	95	1	No Gas	0.009	0.009	51.05	297	0.00	2000	
Sn	118	1	No Gas	-0.031	-0.031	-16.03	3844	0.00	2000	
Sb	121	1	No Gas	0.013	0.013	26.76	847	0.00	2000	
Ba	137	1	No Gas	-0.054	-0.054	-14.08	313	-0.02	2000	
Tl	205	1	No Gas	0.014	0.014	11.62	1087	0.00	2000	
Tl	203	1	No Gas	0.015	0.015	15.51	500	0.00	2000	
Pb	208	1	No Gas	0.008	0.008	34.76	2527	0.00	2000	
U	238	1	No Gas	0.002	0.002	93.85	673	0.00	2000	
Ca	43	2	He	-5.343	-5.343	-47.01	80	-6.68	200000	
Sb	121	2	He	0.012	0.012	87.03	413	0.00	2000	
Ti	47	2	He	0.025	0.025	149.65	23	0.11	2000	
Cu	63	1	No Gas	0.012	0.012	42.22	4477	0.00	2000	
Ca	44	1	No Gas	-10.208	-10.208	-7.34	67102	-0.02	200000	
Zn	66	1	No Gas	0.261	0.261	23.69	7172	0.00	2000	
Se	82	1	No Gas	-0.071	-0.071	-516.87	873	-0.01	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1322487	0.68	1303313	101.47	70	120	
Ge	72	2	He	1352246	1.03	1374323	98.39	70	120	
Ge	72	1	No Gas	4283115	0.34	4359458	98.25	70	120	

Sample Report

In	115	1	No Gas	4991209	0.91	5185395	96.26	70	120	
Bi	209	1	No Gas	4450972	0.41	4642203	95.88	70	120	

Sample Report

Sample Table

Sample Name	HS24051277-01
Data File Name	120SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T16:03:00-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	37.269	37.269	2.03	817099	0.00	2000	
Be	9	1	No Gas	0.098	0.098	7.08	550	0.02	2000	
V	51	2	He	0.811	0.811	2.70	14598	0.01	2000	
Cr	52	2	He	1.310	1.310	2.69	30160	0.00	2000	
Fe	56	2	He	383.694	383.694	2.32	5015662	0.01	200000	
Se	78	2	He	0.448	0.448	42.76	300	0.15	2000	
As	75	2	He	0.728	0.728	6.50	2067	0.04	2000	
Ca	44	2	He	56117.575	56117.575	0.62	4188042	1.34	200000	
Na	23	2	He	238003.380	238003.380	1.65	480185086	0.05	200000	>LDR
Mg	24	2	He	39903.232	39903.232	1.52	49472989	0.08	200000	
K	39	2	He	1060.042	1060.042	0.51	1616268	0.07	200000	
Mn	55	2	He	347.190	347.190	2.16	3516885	0.01	2000	
Co	59	2	He	3.130	3.130	2.37	68791	0.00	2000	
Ni	60	2	He	7.499	7.499	0.60	43382	0.02	2000	
Cu	63	2	He	3.613	3.613	1.76	58022	0.01	2000	
Zn	66	2	He	11.725	11.725	0.90	35830	0.03	2000	
Al	27	2	He	69.625	69.625	1.44	60093	0.12	2000	
B	11	1	No Gas	42.753	42.753	1.52	165239	0.03	2000	
Al	27	1	No Gas	72.145	72.145	3.42	2078694	0.00	2000	
Si	28	1	No Gas	17748.312	17748.312	2.38	184007477	0.01	2000	>LDR
Ag	107	1	No Gas	0.021	0.021	17.81	1317	0.00	2000	
Cd	111	1	No Gas	0.096	0.096	10.59	650	0.01	2000	
Sr	88	1	No Gas	1064.029	1064.029	2.28	66790979	0.00	2000	
Mo	95	1	No Gas	0.758	0.758	4.40	9927	0.01	2000	
Sn	118	1	No Gas	0.123	0.123	10.61	7282	0.00	2000	
Sb	121	1	No Gas	0.453	0.453	12.79	14645	0.00	2000	
Ba	137	1	No Gas	281.810	281.810	1.57	2954557	0.01	2000	
Tl	205	1	No Gas	0.030	0.030	19.99	1967	0.00	2000	
Tl	203	1	No Gas	0.029	0.029	23.83	833	0.00	2000	
Pb	208	1	No Gas	0.139	0.139	3.76	13240	0.00	2000	
U	238	1	No Gas	2.266	2.266	0.97	190909	0.00	2000	
Ca	43	2	He	56113.347	56113.347	1.79	243413	23.05	200000	
Sb	121	2	He	0.375	0.375	2.17	5825	0.01	2000	
Ti	47	2	He	2.140	2.140	29.81	960	0.22	2000	
Cu	63	1	No Gas	4.823	4.823	2.86	128275	0.00	2000	
Ca	44	1	No Gas	54842.811	54842.811	2.16	49911773	0.11	200000	
Zn	66	1	No Gas	11.636	11.636	3.15	92195	0.01	2000	
Se	82	1	No Gas	1.206	1.206	16.71	1457	0.08	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1379145	1.01	1303313	105.82	70	120	
Ge	72	2	He	1446878	0.89	1374323	105.28	70	120	
Ge	72	1	No Gas	4557691	0.80	4359458	104.55	70	120	
In	115	1	No Gas	5155544	1.24	5185395	99.42	70	120	
Bi	209	1	No Gas	4300100	1.29	4642203	92.63	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	123_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T16:11:59-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	98.897	2.551	2070349	2.07	100	98.9	90	110	
Be	9	1	No Gas	100.626	3.478	557971	2.93	100	100.6	90	110	
V	51	2	He	101.692	0.500	1218230	0.86	100	101.7	90	110	
Cr	52	2	He	101.399	0.716	1383573	0.94	100	101.4	90	110	
Fe	56	2	He	10015.968	1.554	128344721	1.55	10000	100.2	90	110	
Se	78	2	He	104.081	0.881	18933	1.31	100	104.1	90	110	
As	75	2	He	101.364	1.436	226805	1.61	100	101.4	90	110	
Ca	44	2	He	9996.045	1.080	737074	0.69	10000	100.0	90	110	
Na	23	2	He	10068.929	0.912	20296753	1.02	10000	100.7	90	110	
Mg	24	2	He	10106.841	1.287	12345790	1.28	10000	101.1	90	110	
K	39	2	He	10241.259	1.116	14076727	0.82	10000	102.4	90	110	
Mn	55	2	He	103.272	1.493	1031261	1.56	100	103.3	90	110	
Co	59	2	He	101.691	1.201	2198965	1.75	100	101.7	90	110	
Ni	60	2	He	100.986	1.322	564471	1.81	100	101.0	90	110	
Cu	63	2	He	101.144	0.726	1535645	1.08	100	101.1	90	110	
Zn	66	2	He	101.968	2.074	291056	2.04	100	102.0	90	110	
Al	27	2	He	99.840	1.576	82243	1.46	100	99.8	90	110	
B	11	1	No Gas	478.770	3.322	1715664	2.25	500	95.8	90	110	
Al	27	1	No Gas	101.520	1.893	2848968	2.14	100	101.5	90	110	
Si	28	1	No Gas	532.786	2.525	6088957	2.67	5000	10.7	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.467	1.491	3604141	1.68	100	101.5	90	110	
Cd	111	1	No Gas	100.892	1.958	698150	2.17	100	100.9	90	110	
Sr	88	1	No Gas	101.226	1.870	6514953	2.08	100	101.2	90	110	
Mo	95	1	No Gas	99.654	1.183	1311415	1.42	100	99.7	90	110	
Sn	118	1	No Gas	100.307	2.101	2213322	2.33	100	100.3	90	110	
Sb	121	1	No Gas	101.316	1.673	3172915	2.08	100	101.3	90	110	
Ba	137	1	No Gas	101.710	1.537	1092731	1.74	100	101.7	90	110	
Tl	205	1	No Gas	96.782	1.794	6244399	2.53	100	96.8	90	110	
Tl	203	1	No Gas	97.045	1.615	2639400	2.16	100	97.0	90	110	
Pb	208	1	No Gas	102.049	1.605	9230543	2.43	100	102.0	90	110	
U	238	1	No Gas	97.709	1.275	9012275	2.13	100	97.7	90	110	
Ca	43	2	He	10072.289	1.939	43134	2.08	10000	100.7	90	110	
Sb	121	2	He	101.089	1.362	1475338	0.93	100	101.1	90	110	
Ti	47	2	He	101.731	2.056	44368	1.48	100	101.7	90	110	
Cu	63	1	No Gas	105.059	2.287	2707567	2.64	100	105.1	90	110	
Se	82	1	No Gas	100.803	1.113	42708	1.19	100	100.8	90	110	
Zr	90	1	No Gas	82.925	0.879	3408751	1.11	100	82.9	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	81.485	0.712	1494955	0.88	100	81.5	90	110	CCV Main CR1-2 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1398755	1.45	1303313	107.32	70	120	
Ge	72	2	He	1425308	0.59	1374323	103.71	70	120	
Ge	72	1	No Gas	4568035	0.43	4359458	104.78	70	120	
In	115	1	No Gas	5280344	0.24	5185395	101.83	70	120	
Bi	209	1	No Gas	4720191	0.92	4642203	101.68	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	124_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq Date Time	2024-05-29T16:14:25-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	098CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.037	54.4	81926	0.4	0.5	
Be	9	1	No Gas	0.013	47.9	92	38.7	0.5	
V	51	2	He	-0.105	-3.1	3519	1.9	2.5	
Cr	52	2	He	-0.175	-6.5	9830	1.6	2.5	
Fe	56	2	He	0.797	14.5	36602	4.8	100	
Se	78	2	He	-0.049	-102.0	211	3.8	2	
As	75	2	He	0.005	174.0	429	5.2	2.5	
Ca	44	2	He	-14.866	-16.7	1610	10.8	100	
Na	23	2	He	29.915	8.6	364467	1.5	100	
Mg	24	2	He	0.331	43.1	1733	9.4	100	
K	39	2	He	-3.802	-10.7	148712	1.1	100	
Mn	55	2	He	0.009	72.4	1063	5.3	2.5	
Co	59	2	He	0.001	199.2	133	41.3	2.5	
Ni	60	2	He	-0.047	-31.7	633	13.4	2.5	
Cu	63	2	He	-0.055	-12.0	1593	6.9	2	
Zn	66	2	He	-0.098	-53.6	1823	8.0	2.5	
Al	27	2	He	-4.990	-5.7	2327	10.6	5	
B	11	1	No Gas	3.097	14.8	27973	6.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-4.622	-1.8	84631	2.2	5	
Si	28	1	No Gas	4.464	12.6	635610	0.5	10	
Ag	107	1	No Gas	0.003	42.4	767	7.5	2.5	
Cd	111	1	No Gas	0.002	211.9	15	219.6	1	
Sr	88	1	No Gas	-0.070	-6.5	3624	7.7	2.5	
Mo	95	1	No Gas	0.072	32.8	1187	26.3	2.5	
Sn	118	1	No Gas	0.039	34.9	5875	4.4	5	
Sb	121	1	No Gas	0.072	7.9	2814	6.4	2.5	
Ba	137	1	No Gas	-0.027	-57.1	647	26.3	2.5	
Tl	205	1	No Gas	0.151	60.6	10346	59.4	1	
Tl	203	1	No Gas	0.145	60.5	4208	59.0	1	
Pb	208	1	No Gas	0.015	12.2	3487	5.2	2.5	
U	238	1	No Gas	0.008	13.0	1350	7.7	2.5	
Ca	43	2	He	-9.848	-65.6	67	43.3	100	
Sb	121	2	He	0.062	18.9	1190	15.6	2.5	
Ti	47	2	He	-0.017	-78.2	7	86.6	2.5	
Cu	63	1	No Gas	-0.030	-28.1	3791	5.9	2.5	
Se	82	1	No Gas	-0.032	-963.1	977	13.3	2	
Zr	90	1	No Gas	0.122	23.2	6792	16.9	2.5	
Zr	90	2	He	0.079	11.6	3334	5.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1463078	0.85	1303313	112.26	70	120	
Ge	72	2	He	1456448	0.99	1374323	105.98	70	120	
Ge	72	1	No Gas	4710889	0.50	4359458	108.06	70	120	

Continuing Calibration Blank (CCB) Report

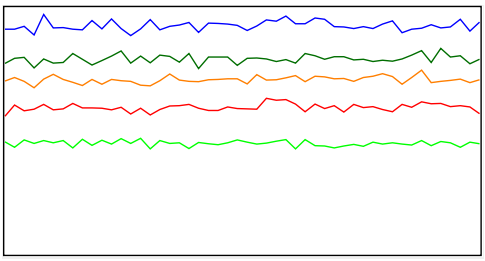
In	115	1	No Gas	5532983	1.04	5185395	106.70	70	120	
Bi	209	1	No Gas	4886899	0.28	4642203	105.27	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\052924A.b
Acq. Date-Time	5/29/2024 9:35:18 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	5953	59527.56		
24	50000	22473	224733.36		
59	50000	46351	463513.99		
115	100000	70790	707899.43		
208	50000	39608	396079.02		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.560	5.000	
24	2.503	5.000	
59	2.052	5.000	
115	1.963	5.000	
208	2.151	5.000	

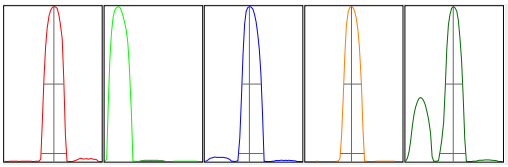
Mass	Background	Background (Required)	Background (Flag)
9	1.000		
24	3.000		
59	1.100		
115	1.000		
208	2.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.787 %
Doubly Charged	70 / 140 0.858 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6067.04	9.05	8.90 - 9.10	
24	22524.32	23.95	23.90 - 24.10	
59	47226.74	58.90	58.90 - 59.10	
115	71806.51	114.95	114.90 - 115.10	
208	39882.15	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.779		
24	0.64	0.784		
59	0.60	0.776		
115	0.53	0.728		
208	0.53	0.795		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

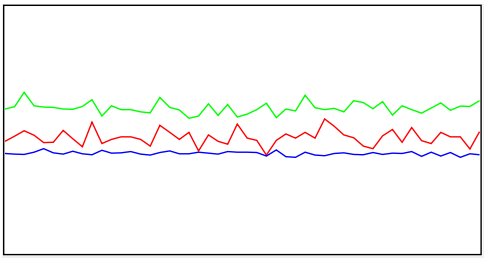
EM

Discriminator	2.9 mV	Analog HV	2191 V	Pulse HV	881 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	235	2348.39		
24	2000	1178	11779.88		
59	50000	20218	202178.21		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

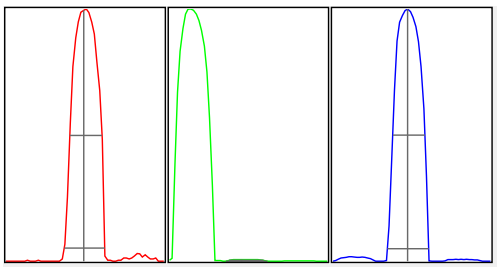
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	6.427	5.000	Fail
24	3.877	5.000	
59	1.847	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.600		
24	0.700		
59	0.500		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.234 %
Doubly Charged	70 / 140 0.951 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	240.78	9.00	8.90 - 9.10	
24	1167.52	23.90	23.90 - 24.10	
59	20289.72	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.760		
24	0.64	0.778		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.60	0.775		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm		

EM

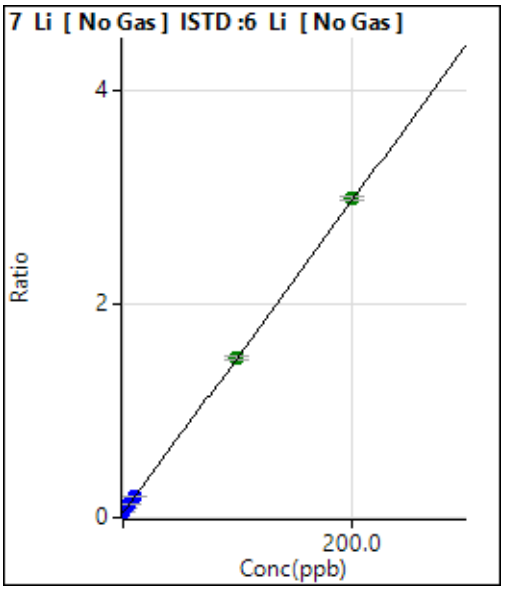
Discriminator	2.9 mV	Analog HV	2191 V	Pulse HV	881 V

Calibration for 165_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\053024A.b\
Analysis File: 053024A.batch.bin
DA Date-Time: 5/30/2024 7:19:42 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	158CALB.d	CAL BLK	5/30/2024 7:01:23 PM
2	159CALS.d	2/10/200	5/30/2024 7:03:53 PM
3	160CALS.d	5/25/500	5/30/2024 7:06:24 PM
4	161CALS.d	10/50/100	5/30/2024 7:08:53 PM
5	162CALS.d	100/500/10K	5/30/2024 7:11:23 PM
6	163CALS.d	200/1000/20K	5/30/2024 7:13:54 PM

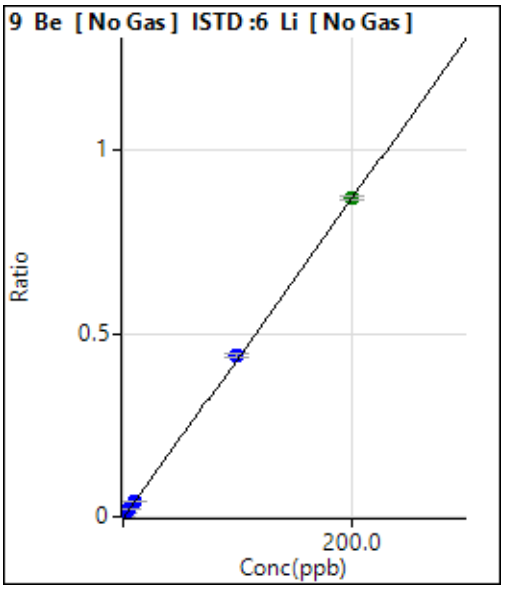
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	58437.85	0.0581	P	1.0	
2	☐	2.000	2.022	84778.98	0.0876	P	0.6	1.1
3	☐	5.000	5.048	128715.20	0.1318	P	0.2	1.0
4	☐	10.000	9.808	196772.96	0.2012	P	1.5	-1.9
5	☐	100.000	98.546	1363385.24	1.4958	A	1.9	-1.5
6	☐	200.000	200.735	2597480.48	2.9866	A	1.2	0.4

y = 0.0146 * x + 0.0581
R = 1.0000
DL = 0.1146 ppb
BEC = 3.983 ppb

Weight: <None>
Min Conc: <None>

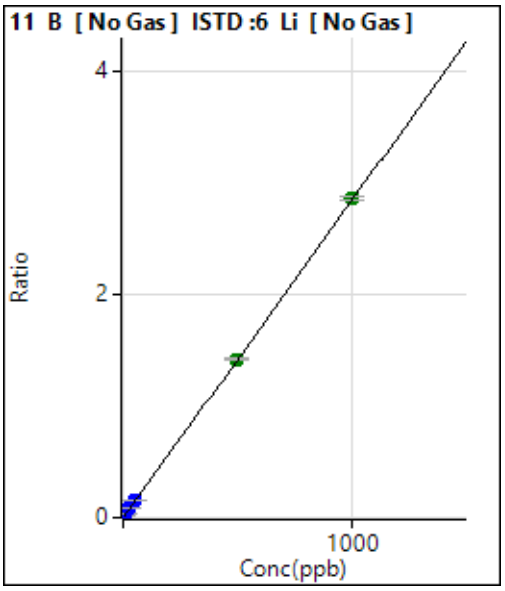


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	28.33	0.0000	P	9.7	
2	☐	2.000	1.983	8400.87	0.0087	P	1.5	-0.8
3	☐	5.000	4.843	20671.75	0.0212	P	0.7	-3.1
4	☐	10.000	9.809	41888.14	0.0428	P	3.8	-1.9
5	☐	100.000	100.883	401217.25	0.4402	P	2.0	0.9
6	☐	200.000	199.572	757324.34	0.8708	A	1.6	-0.2

y = 0.0044 * x + 2.8164E-005
R = 1.0000
DL = 0.001878 ppb
BEC = 0.006455 ppb

Weight: <None>
Min Conc: <None>

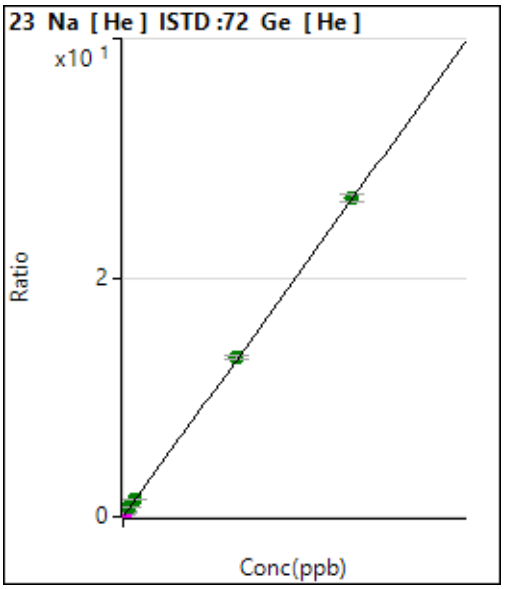
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11946.75	0.0119	P	1.3	
2	☐	10.000	9.889	38681.04	0.0400	P	1.9	-1.1
3	☐	25.000	24.208	78787.53	0.0806	P	0.5	-3.2
4	☐	50.000	48.267	145720.51	0.1490	P	1.6	-3.5
5	☐	500.000	495.396	1293437.04	1.4192	A	1.7	-0.9
6	☐	1000.000	1002.410	2487021.42	2.8595	A	1.3	0.2

y = 0.0028 * x + 0.0119
R = 1.0000
DL = 0.1581 ppb
BEC = 4.182 ppb

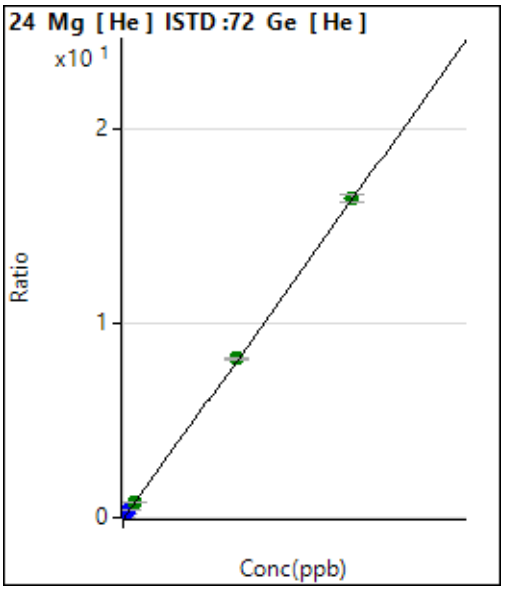
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	170873.35	0.1323	P	1.1	
2	☐	200.000	201.887	518594.94	0.4003	M	2.4	0.9
3	☐	500.000	497.999	1034966.73	0.7933	A	2.6	-0.4
4	☐	1000.000	1007.459	1924828.77	1.4695	A	2.2	0.7
5	☐	10000.00	9975.201	17184368.08	13.3722	A	1.8	-0.2
6	☐	20000.00	20012.05	33880042.00	26.6940	A	2.0	0.1

y = 0.0013 * x + 0.1323
R = 1.0000
DL = 3.325 ppb
BEC = 99.69 ppb

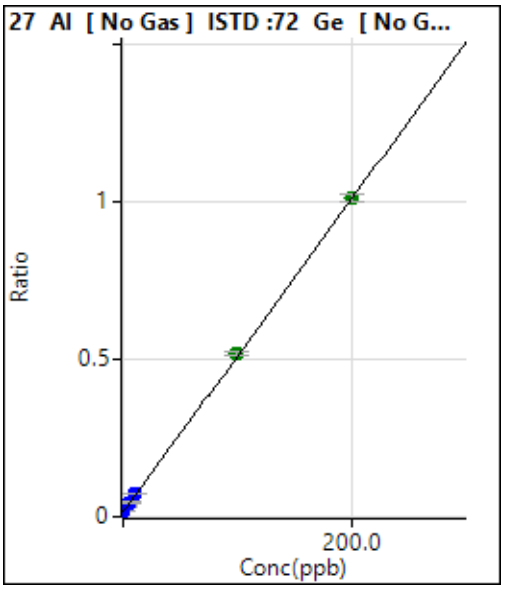
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1230.08	0.0010	P	4.6	
2	☐	200.000	202.775	216807.64	0.1673	P	1.9	1.4
3	☐	500.000	512.262	549567.53	0.4212	P	2.8	2.5
4	☐	1000.000	1015.071	1092269.28	0.8338	A	0.7	1.5
5	☐	10000.00	9970.247	10513799.84	8.1812	A	1.9	-0.3
6	☐	20000.00	20013.78	20842010.10	16.4216	A	2.1	0.1

y = 8.2047E-004 * x + 9.5250E-004
R = 1.0000
DL = 0.1601 ppb
BEC = 1.161 ppb

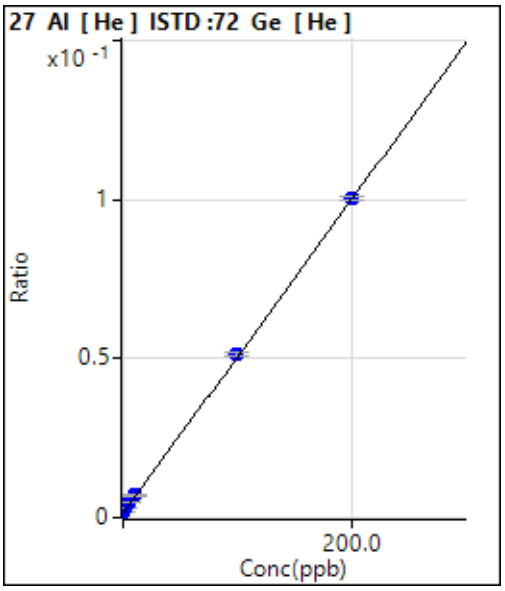
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	78354.36	0.0193	P	2.7	
2	☐	2.000	2.880	136379.32	0.0337	P	21.6	44.0
3	☐	5.000	5.281	186448.31	0.0456	P	2.2	5.6
4	☐	10.000	10.493	290202.46	0.0716	P	0.2	4.9
5	☐	100.000	100.672	2078973.35	0.5204	A	2.4	0.7
6	☐	200.000	199.624	3945447.44	1.0130	A	3.0	-0.2

y = 0.0050 * x + 0.0193
R = 1.0000
DL = 0.3139 ppb
BEC = 3.883 ppb

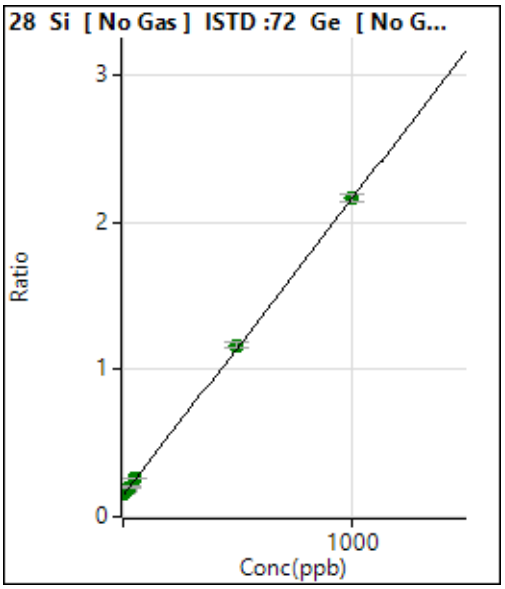
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2410.26	0.0019	P	1.7	
2	☐	2.000	2.564	4060.67	0.0031	P	0.9	28.2
3	☐	5.000	5.583	6034.71	0.0046	P	2.0	11.7
4	☐	10.000	10.490	9236.50	0.0071	P	5.7	4.9
5	☐	100.000	100.457	66202.52	0.0515	P	2.1	0.5
6	☐	200.000	199.727	127653.56	0.1006	P	1.5	-0.1

y = 4.9422E-004 * x + 0.0019
R = 1.0000
DL = 0.1886 ppb
BEC = 3.776 ppb

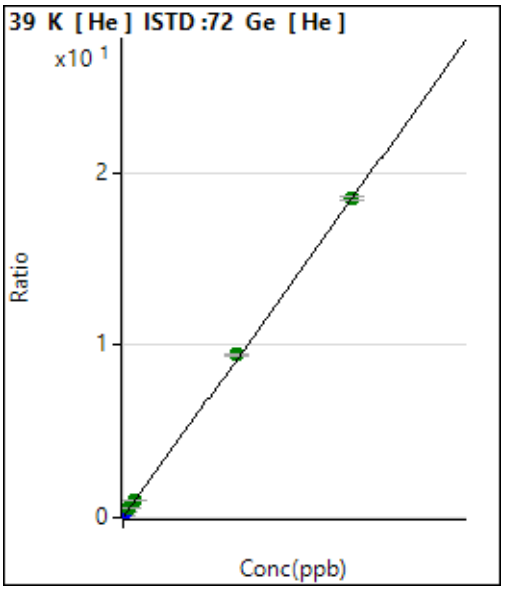
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	632122.54	0.1559	A	3.0	
2	☐	10.000	9.996	713463.56	0.1761	A	3.6	0.0
3	☐	25.000	22.992	826502.18	0.2022	A	1.3	-8.0
4	☐	50.000	50.844	1047244.36	0.2583	A	1.9	1.7
5	☐	500.000	502.394	4661186.81	1.1669	A	2.8	0.5
6	☐	1000.000	998.811	8435325.71	2.1657	A	2.8	-0.1

y = 0.0020 * x + 0.1559
R = 1.0000
DL = 7.039 ppb
BEC = 77.5 ppb

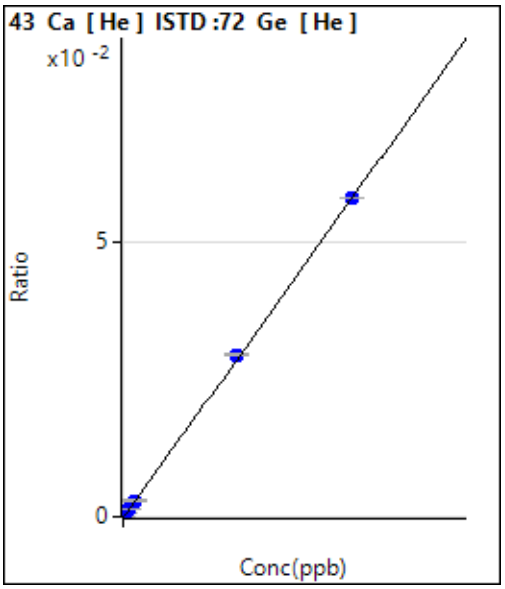
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	143645.26	0.1112	P	1.1	
2	☐	200.000	203.601	387360.12	0.2989	P	0.6	1.8
3	☐	500.000	504.265	751663.27	0.5761	A	2.0	0.9
4	☐	1000.000	1005.540	1360113.94	1.0383	A	0.5	0.6
5	☐	10000.00	10115.25	12127283.99	9.4368	A	1.6	1.2
6	☐	20000.00	19941.95	23476001.32	18.4963	A	1.6	-0.3

y = 9.2193E-004 * x + 0.1112
R = 1.0000
DL = 3.977 ppb
BEC = 120.6 ppb

Weight: <None>
Min Conc: <None>

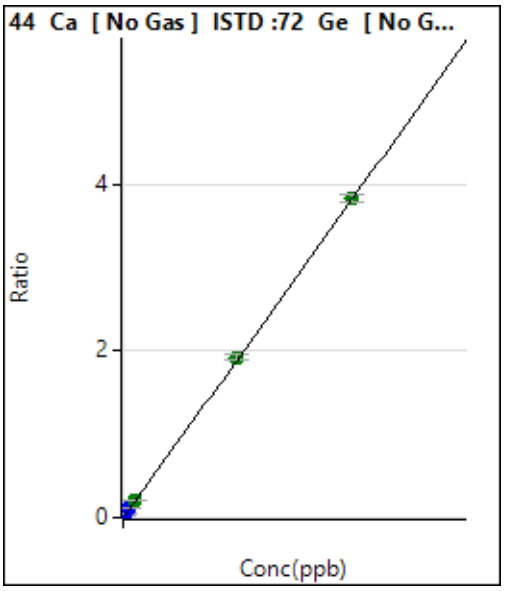


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0000	P	72.0	
2	☐	200.000	205.119	826.71	0.0006	P	16.6	2.6
3	☐	500.000	505.945	1976.84	0.0015	P	5.6	1.2
4	☐	1000.000	1005.191	3893.95	0.0030	P	5.9	0.5
5	☐	10000.00	10122.20	38019.01	0.0296	P	1.1	1.2
6	☐	20000.00	19938.43	73923.04	0.0582	P	0.3	-0.3

y = 2.9190E-006 * x + 3.8612E-005
R = 1.0000
DL = 28.57 ppb
BEC = 13.23 ppb

Weight: <None>
Min Conc: <None>

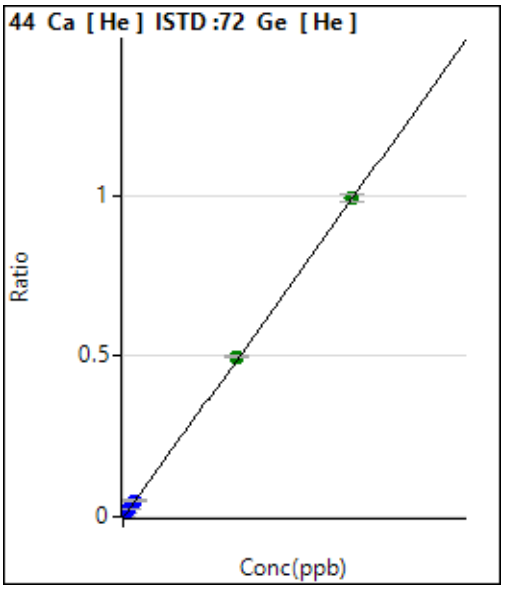
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	54175.60	0.0134	P	3.0	
2	☐	200.000	217.311	222104.82	0.0548	P	2.5	8.7
3	☐	500.000	534.979	471611.54	0.1154	P	2.5	7.0
4	☐	1000.000	1021.408	844148.24	0.2082	A	0.5	2.1
5	☐	10000.00	9993.899	7666596.14	1.9193	A	3.3	-0.1
6	☐	20000.00	20000.93	14908613.53	3.8277	A	2.9	0.0

y = 1.9071E-004 * x + 0.0134
R = 1.0000
DL = 6.237 ppb
BEC = 70.08 ppb

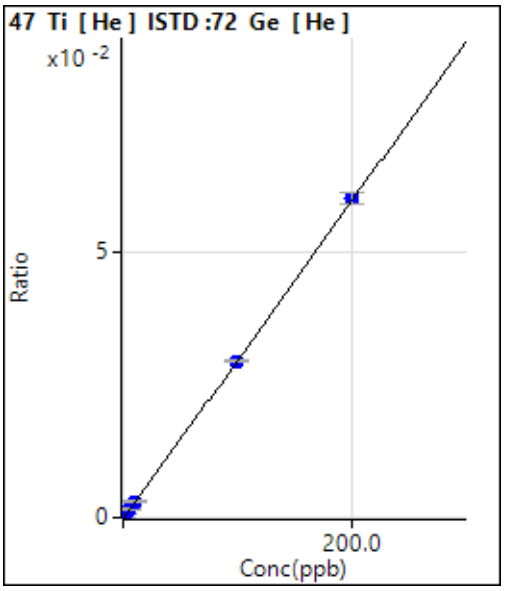
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1586.79	0.0012	P	0.6	
2	☐	200.000	200.589	14474.45	0.0112	P	1.5	0.3
3	☐	500.000	491.124	33356.96	0.0256	P	1.6	-1.8
4	☐	1000.000	997.804	66391.58	0.0507	P	1.8	-0.2
5	☐	10000.00	10026.71	640059.82	0.4981	A	1.0	0.3
6	☐	20000.00	19986.96	1258669.96	0.9917	A	1.9	-0.1

y = 4.9555E-005 * x + 0.0012
R = 1.0000
DL = 0.4114 ppb
BEC = 24.79 ppb

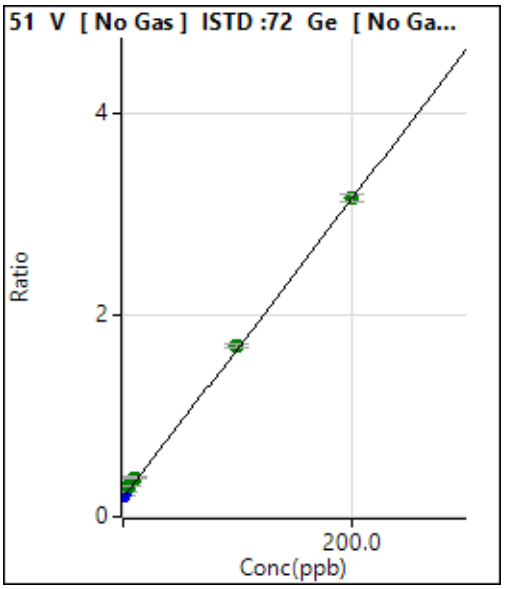
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	69.1	
2	☐	2.000	2.065	816.71	0.0006	P	9.7	3.2
3	☐	5.000	5.223	2053.53	0.0016	P	15.1	4.5
4	☐	10.000	10.105	3977.31	0.0030	P	3.3	1.1
5	☐	100.000	98.389	37831.82	0.0294	P	2.0	-1.6
6	☐	200.000	200.794	76239.29	0.0601	P	3.5	0.4

y = 2.9913E-004 * x + 1.2894E-005
R = 1.0000
DL = 0.08933 ppb
BEC = 0.04311 ppb

Weight: <None>
Min Conc: <None>

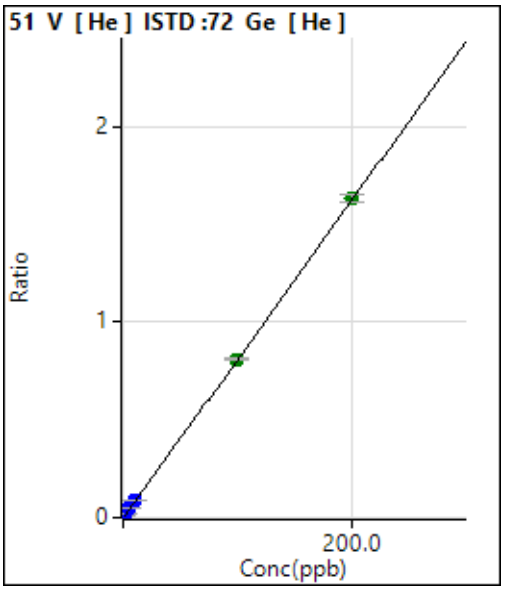


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	824072.00	0.2032	P	0.6	
2	☐	2.000	2.884	996910.03	0.2460	P	0.3	44.2
3	☐	5.000	6.769	1240782.29	0.3036	A	1.3	35.4
4	☐	10.000	12.605	1581743.59	0.3901	A	1.2	26.1
5	☐	100.000	100.213	6744823.79	1.6885	A	2.4	0.2
6	☐	200.000	199.710	12319746.51	3.1631	A	3.0	-0.1

y = 0.0148 * x + 0.2032
R = 0.9999
DL = 0.2334 ppb
BEC = 13.71 ppb

Weight: <None>
Min Conc: <None>

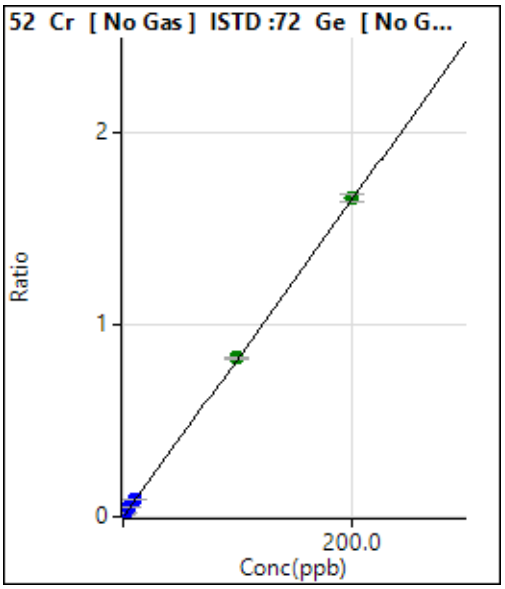
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6563.81	0.0051	P	3.3	
2	☐	2.000	2.039	28061.69	0.0217	P	1.3	2.0
3	☐	5.000	5.095	60658.80	0.0465	P	2.0	1.9
4	☐	10.000	10.089	114072.22	0.0871	P	1.5	0.9
5	☐	100.000	99.256	1043161.14	0.8118	A	0.4	-0.7
6	☐	200.000	200.365	2073342.77	1.6336	A	2.3	0.2

y = 0.0081 * x + 0.0051
R = 1.0000
DL = 0.06182 ppb
BEC = 0.6254 ppb

Weight: <None>
Min Conc: <None>

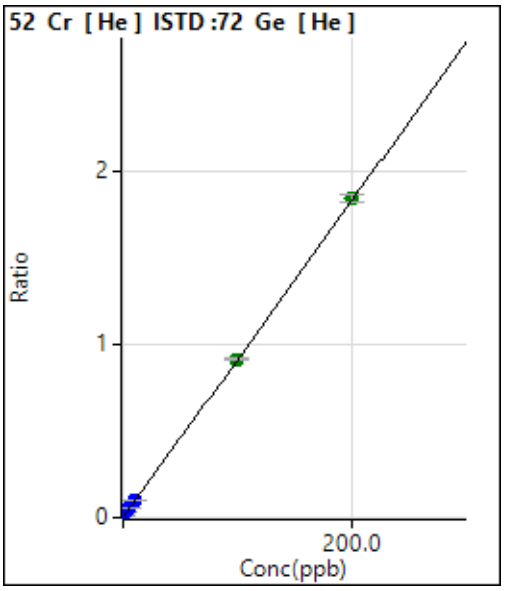


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	27243.87	0.0067	P	1.6	
2	☐	2.000	2.096	97240.00	0.0240	P	1.3	4.8
3	☐	5.000	5.200	202627.50	0.0496	P	1.7	4.0
4	☐	10.000	10.396	374722.25	0.0924	P	0.8	4.0
5	☐	100.000	99.211	3293285.57	0.8244	A	2.1	-0.8
6	☐	200.000	200.369	6458294.90	1.6581	A	2.6	0.2

y = 0.0082 * x + 0.0067
R = 1.0000
DL = 0.03973 ppb
BEC = 0.8153 ppb

Weight: <None>
Min Conc: <None>

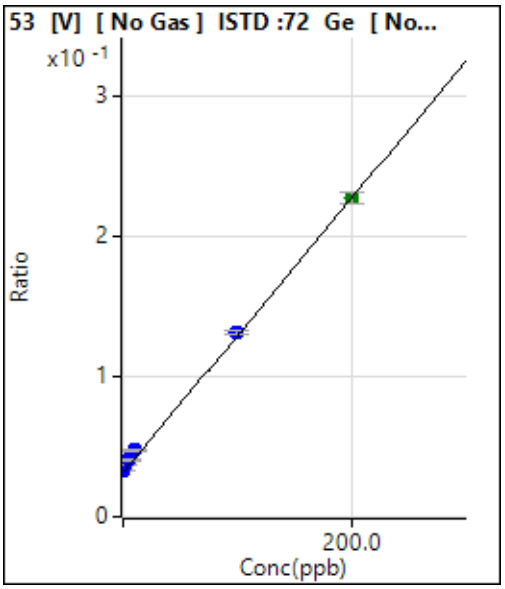
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12976.31	0.0100	P	2.3	
2	☐	2.000	2.053	37417.70	0.0289	P	2.7	2.7
3	☐	5.000	5.035	73330.68	0.0562	P	2.8	0.7
4	☐	10.000	10.253	136290.72	0.1040	P	2.0	2.5
5	☐	100.000	98.744	1176237.61	0.9153	A	1.0	-1.3
6	☐	200.000	200.614	2347133.30	1.8493	A	2.9	0.3

y = 0.0092 * x + 0.0100
R = 1.0000
DL = 0.07717 ppb
BEC = 1.096 ppb

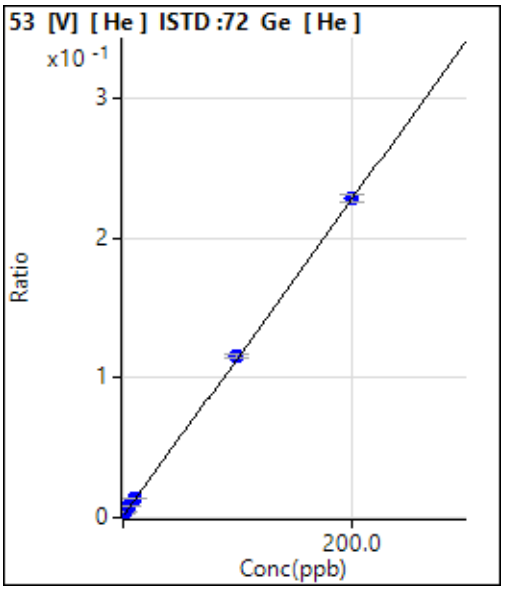
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	132422.37	0.0327	P	0.6	
2	☐	2.000	4.042	148371.25	0.0366	P	0.3	102.1
3	☐	5.000	8.024	165559.36	0.0405	P	1.3	60.5
4	☐	10.000	14.921	191581.53	0.0472	P	1.8	49.2
5	☐	100.000	101.319	526173.57	0.1317	P	1.9	1.3
6	☐	200.000	198.999	884973.94	0.2272	A	3.2	-0.5

y = 9.7768E-004 * x + 0.0327
R = 0.9998
DL = 0.6437 ppb
BEC = 33.4 ppb

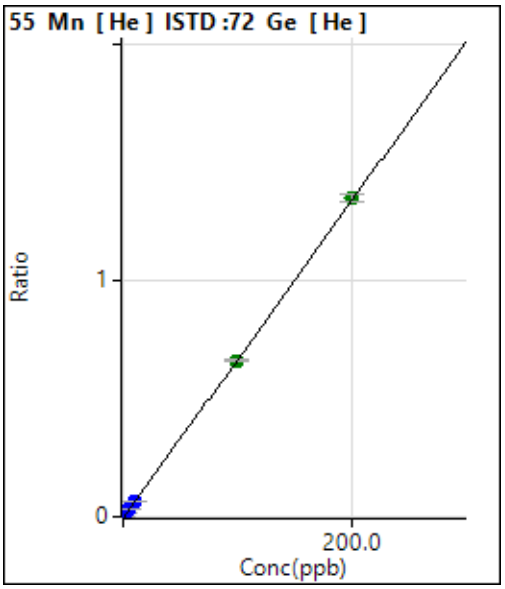
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2766.99	0.0021	P	4.8	
2	☐	2.000	2.181	5978.08	0.0046	P	2.7	9.1
3	☐	5.000	5.067	10283.98	0.0079	P	3.2	1.3
4	☐	10.000	10.265	18045.30	0.0138	P	2.9	2.7
5	☐	100.000	100.362	148868.66	0.1159	P	1.8	0.4
6	☐	200.000	199.802	290029.43	0.2285	P	3.0	-0.1

y = 0.0011 * x + 0.0021
R = 1.0000
DL = 0.2715 ppb
BEC = 1.891 ppb

Weight: <None>
Min Conc: <None>

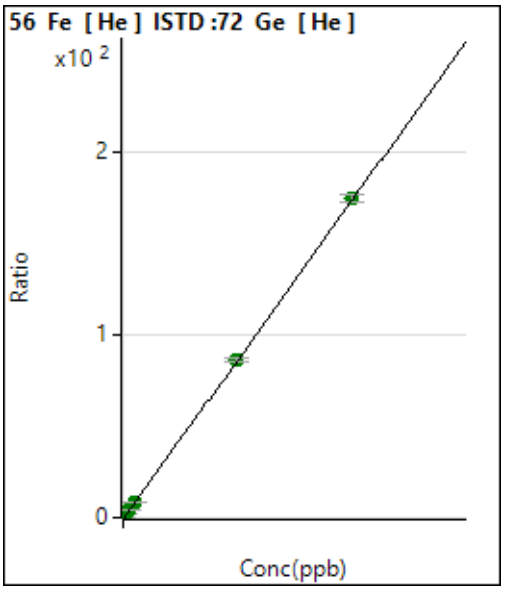


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	896.71	0.0007	P	6.6	
2	☐	2.000	1.998	18292.46	0.0141	P	2.8	-0.1
3	☐	5.000	5.037	45067.10	0.0345	P	2.2	0.7
4	☐	10.000	10.081	89650.30	0.0684	P	1.9	0.8
5	☐	100.000	98.359	850249.91	0.6616	A	1.7	-1.6
6	☐	200.000	200.816	1713614.35	1.3501	A	2.3	0.4

y = 0.0067 * x + 6.9447E-004
R = 1.0000
DL = 0.02052 ppb
BEC = 0.1033 ppb

Weight: <None>
Min Conc: <None>

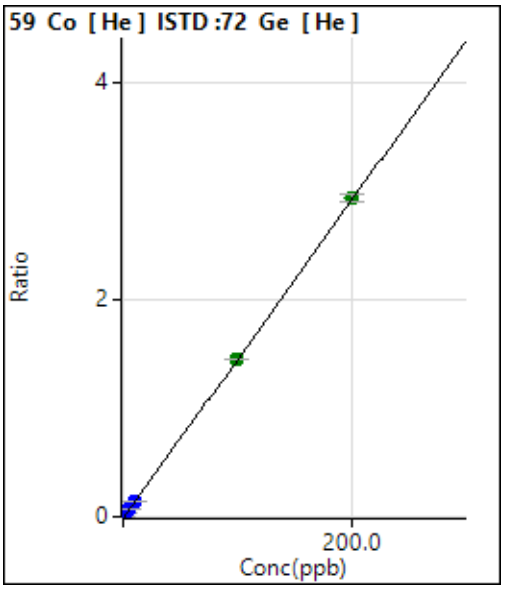
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18072.09	0.0140	P	3.9	
2	☐	200.000	197.613	2252281.32	1.7382	A	1.9	-1.2
3	☐	500.000	496.295	5667810.54	4.3443	A	2.4	-0.7
4	☐	1000.000	1000.621	11456180.66	8.7446	A	1.6	0.1
5	☐	10000.00	9875.354	110749751.6	86.1787	A	2.2	-1.2
6	☐	20000.00	20062.40	222190563.3	175.063	A	2.0	0.3

y = 0.0087 * x + 0.0140
R = 1.0000
DL = 0.1856 ppb
BEC = 1.604 ppb

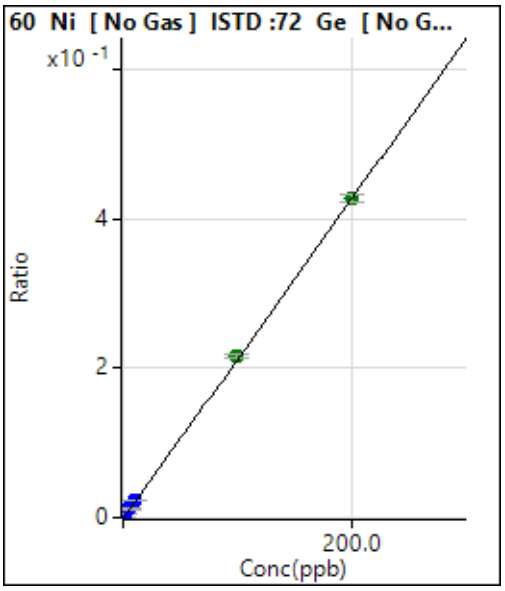
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	73.33	0.0001	P	28.6	
2	☐	2.000	2.047	38965.32	0.0301	P	1.0	2.4
3	☐	5.000	5.077	97181.36	0.0745	P	2.7	1.5
4	☐	10.000	10.168	195374.72	0.1491	P	0.2	1.7
5	☐	100.000	99.078	1866737.94	1.4526	A	0.6	-0.9
6	☐	200.000	200.450	3729977.76	2.9389	A	2.7	0.2

y = 0.0147 * x + 5.6817E-005
R = 1.0000
DL = 0.003323 ppb
BEC = 0.003875 ppb

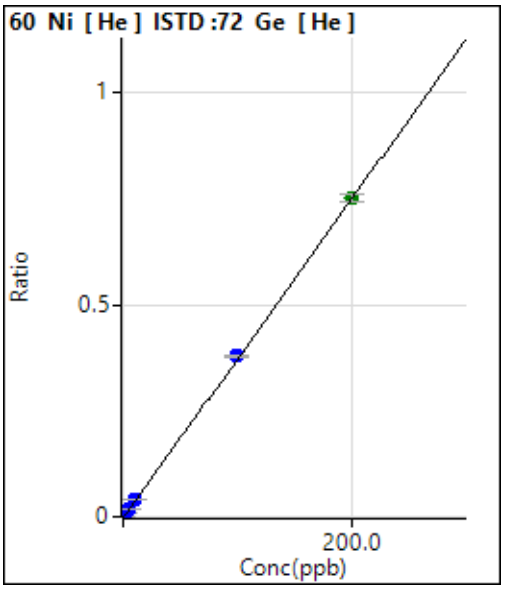
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	946.72	0.0002	P	8.5	
2	☐	2.000	2.096	19136.96	0.0047	P	3.3	4.8
3	☐	5.000	5.309	47435.32	0.0116	P	2.0	6.2
4	☐	10.000	10.628	93278.47	0.0230	P	1.3	6.3
5	☐	100.000	101.194	866918.71	0.2170	A	2.3	1.2
6	☐	200.000	199.363	1664285.03	0.4273	A	2.6	-0.3

y = 0.0021 * x + 2.3358E-004
R = 1.0000
DL = 0.02792 ppb
BEC = 0.109 ppb

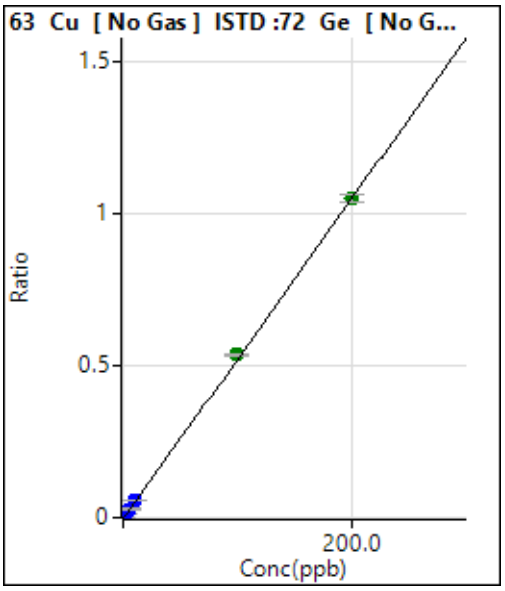
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	513.35	0.0004	P	9.3	
2	☐	2.000	2.022	10380.78	0.0080	P	1.7	1.1
3	☐	5.000	4.999	25076.50	0.0192	P	2.1	0.0
4	☐	10.000	10.381	51734.50	0.0395	P	2.0	3.8
5	☐	100.000	100.600	487234.95	0.3792	P	0.5	0.6
6	☐	200.000	199.681	954748.81	0.7522	A	2.0	-0.2

y = 0.0038 * x + 3.9752E-004
R = 1.0000
DL = 0.02934 ppb
BEC = 0.1056 ppb

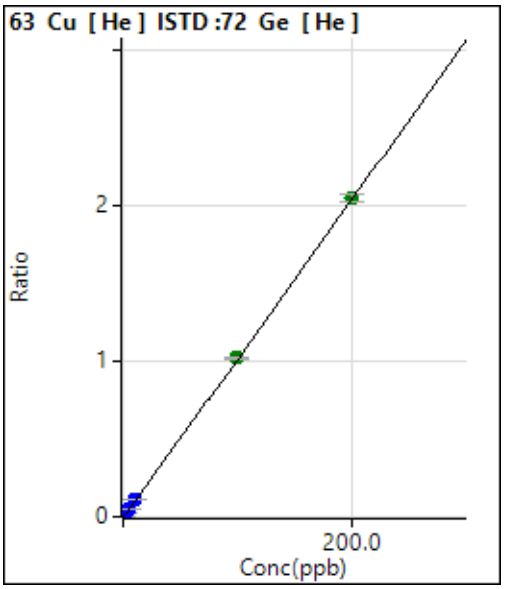
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2290.23	0.0006	P	8.1	
2	☐	2.000	2.100	47224.79	0.0117	P	1.1	5.0
3	☐	5.000	5.285	116366.33	0.0285	P	1.8	5.7
4	☐	10.000	10.634	229977.98	0.0567	P	1.5	6.3
5	☐	100.000	101.424	2141517.16	0.5361	A	2.1	1.4
6	☐	200.000	199.248	4099708.27	1.0526	A	2.7	-0.4

y = 0.0053 * x + 5.6451E-004
R = 1.0000
DL = 0.02591 ppb
BEC = 0.1069 ppb

Weight: <None>
Min Conc: <None>

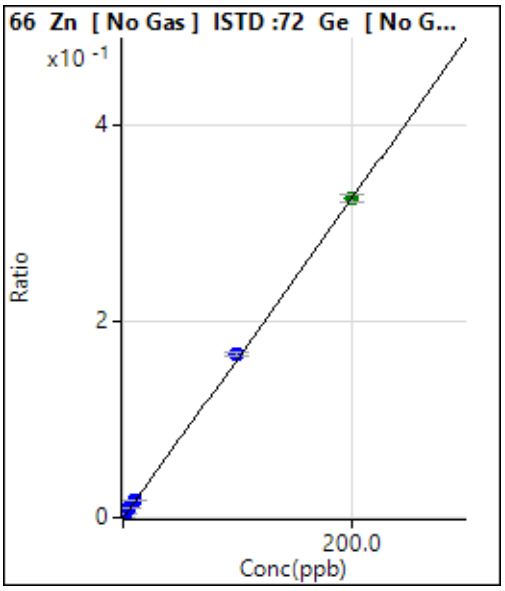


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1660.14	0.0013	P	4.9	
2	☐	2.000	2.076	29174.70	0.0225	P	1.6	3.8
3	☐	5.000	5.043	68956.58	0.0529	P	2.4	0.9
4	☐	10.000	10.266	139223.52	0.1063	P	1.8	2.7
5	☐	100.000	99.703	1311930.16	1.0209	A	0.7	-0.3
6	☐	200.000	200.133	2599343.45	2.0480	A	2.0	0.1

y = 0.0102 * x + 0.0013
R = 1.0000
DL = 0.01843 ppb
BEC = 0.1257 ppb

Weight: <None>
Min Conc: <None>

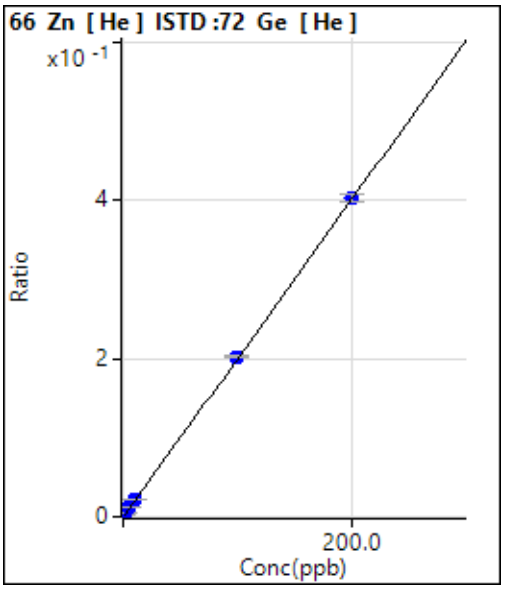
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3850.60	0.0009	P	5.8	
2	☐	2.000	2.037	17314.54	0.0043	P	1.3	1.9
3	☐	5.000	5.060	37625.36	0.0092	P	0.8	1.2
4	☐	10.000	10.099	70672.41	0.0174	P	2.8	1.0
5	☐	100.000	101.475	665130.82	0.1665	P	1.9	1.5
6	☐	200.000	199.256	1269833.68	0.3260	A	2.3	-0.4

y = 0.0016 * x + 9.4926E-004
R = 1.0000
DL = 0.101 ppb
BEC = 0.5819 ppb

Weight: <None>
Min Conc: <None>

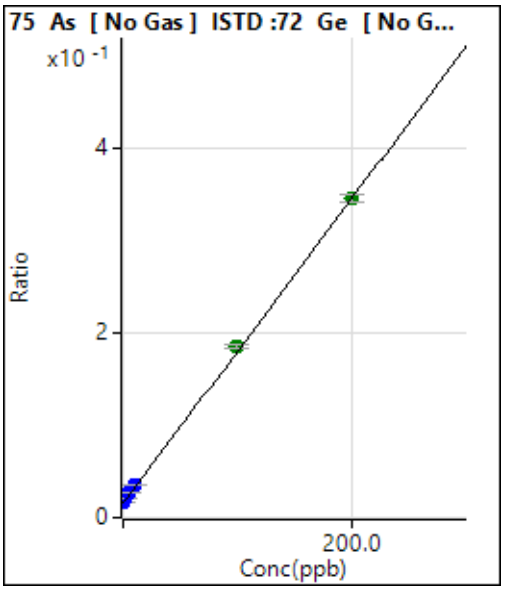


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1686.80	0.0013	P	5.6	
2	☐	2.000	1.932	6725.10	0.0052	P	5.3	-3.4
3	☐	5.000	4.997	14811.60	0.0114	P	4.0	-0.1
4	☐	10.000	9.976	27985.59	0.0214	P	1.8	-0.2
5	☐	100.000	100.067	260236.51	0.2025	P	0.9	0.1
6	☐	200.000	199.969	511962.66	0.4034	P	2.2	0.0

y = 0.0020 * x + 0.0013
R = 1.0000
DL = 0.1081 ppb
BEC = 0.6494 ppb

Weight: <None>
Min Conc: <None>

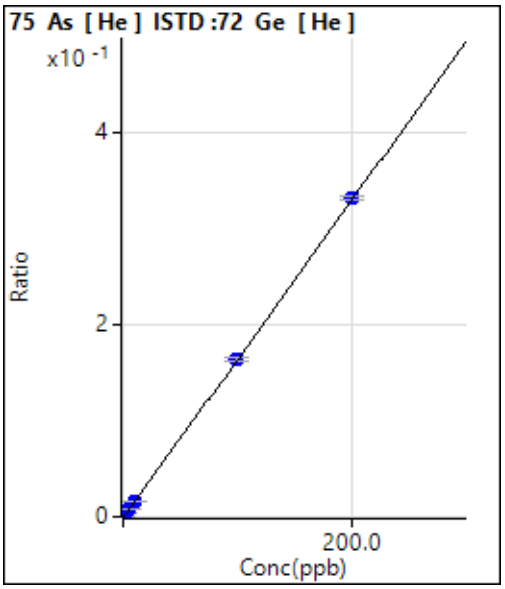
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	70153.55	0.0173	P	1.1	
2	☐	2.000	2.444	86469.70	0.0213	P	0.9	22.2
3	☐	5.000	5.824	110037.69	0.0269	P	1.2	16.5
4	☐	10.000	11.466	146934.06	0.0362	P	1.1	14.7
5	☐	100.000	101.338	737597.02	0.1846	A	2.2	1.3
6	☐	200.000	199.232	1348779.25	0.3463	A	2.2	-0.4

y = 0.0017 * x + 0.0173
R = 1.0000
DL = 0.3492 ppb
BEC = 10.48 ppb

Weight: <None>
Min Conc: <None>

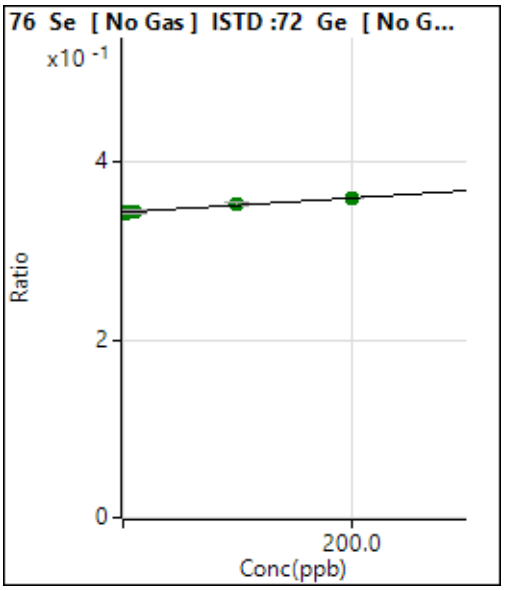


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	502.24	0.0004	P	7.6	
2	☐	2.000	1.887	4549.67	0.0035	P	3.3	-5.6
3	☐	5.000	4.890	11062.30	0.0085	P	3.8	-2.2
4	☐	10.000	9.908	21984.36	0.0168	P	1.3	-0.9
5	☐	100.000	98.982	210985.62	0.1642	P	1.9	-1.0
6	☐	200.000	200.517	421635.64	0.3322	P	1.4	0.3

y = 0.0017 * x + 3.8890E-004
R = 1.0000
DL = 0.05345 ppb
BEC = 0.235 ppb

Weight: <None>
Min Conc: <None>

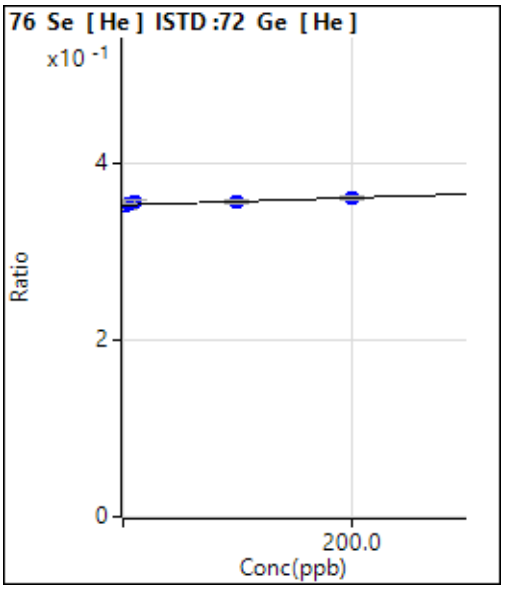
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1391855.08	0.3433	A	0.4	
2	☐	2.000	-31.414	1380959.72	0.3408	A	0.6	-1670.7
3	☐	5.000	3.273	1404391.39	0.3436	A	0.3	-34.5
4	☐	10.000	-4.528	1390607.53	0.3429	A	1.2	-145.3
5	☐	100.000	114.007	1408397.95	0.3525	A	0.8	14.0
6	☐	200.000	194.100	1398523.26	0.3590	A	0.4	-2.9

y = 8.1095E-005 * x + 0.3433
R = 0.9854
DL = 55.47 ppb
BEC = 4233 ppb

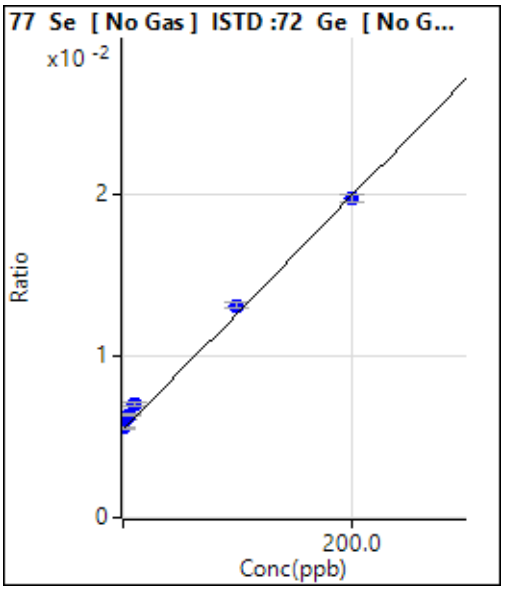
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	455682.83	0.3528	P	0.8	
2	☐	2.000	-32.809	455357.86	0.3515	P	1.9	-1740.5
3	☐	5.000	14.699	461189.09	0.3535	P	1.2	194.0
4	☐	10.000	73.813	466279.03	0.3560	P	1.2	638.1
5	☐	100.000	106.076	459200.46	0.3573	P	1.1	6.1
6	☐	200.000	193.877	458239.46	0.3610	P	0.7	-3.1

y = 4.2187E-005 * x + 0.3528
R = 0.9235
DL = 211.7 ppb
BEC = 8364 ppb

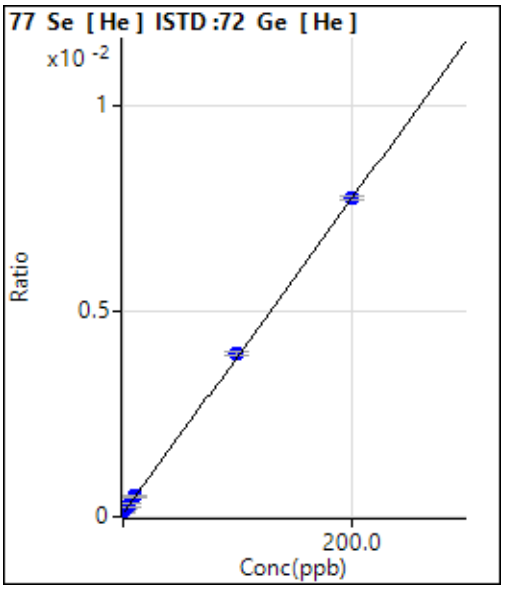
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22512.25	0.0056	P	3.1	
2	☐	2.000	7.500	24702.76	0.0061	P	1.4	275.0
3	☐	5.000	11.172	26005.12	0.0064	P	2.4	123.4
4	☐	10.000	20.306	28473.37	0.0070	P	3.9	103.1
5	☐	100.000	105.259	52635.10	0.0132	P	2.4	5.3
6	☐	200.000	196.646	77107.73	0.0198	P	2.5	-1.7

y = 7.2441E-005 * x + 0.0056
R = 0.9989
DL = 7.097 ppb
BEC = 76.64 ppb

Weight: <None>
Min Conc: <None>

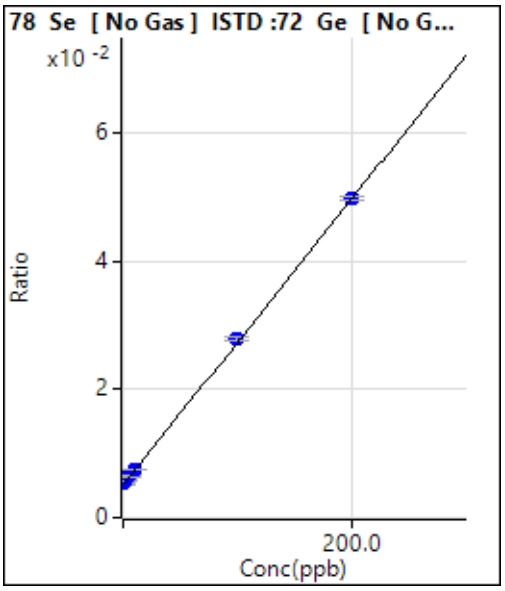


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	153.33	0.0001	P	13.6	
2	☐	2.000	2.210	263.34	0.0002	P	19.5	10.5
3	☐	5.000	4.296	370.01	0.0003	P	32.6	-14.1
4	☐	10.000	10.046	660.03	0.0005	P	5.6	0.5
5	☐	100.000	101.032	5127.71	0.0040	P	2.2	1.0
6	☐	200.000	199.497	9853.69	0.0078	P	1.7	-0.3

y = 3.8317E-005 * x + 1.1873E-004
R = 1.0000
DL = 1.264 ppb
BEC = 3.099 ppb

Weight: <None>
Min Conc: <None>

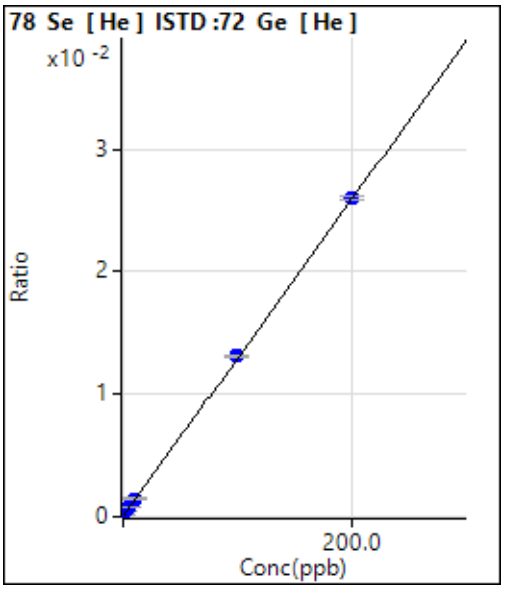
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21560.68	0.0053	P	4.5	
2	☐	2.000	2.267	23607.44	0.0058	P	0.8	13.3
3	☐	5.000	5.154	26435.98	0.0065	P	3.8	3.1
4	☐	10.000	10.081	30681.52	0.0076	P	1.7	0.8
5	☐	100.000	101.344	111477.83	0.0279	P	1.6	1.3
6	☐	200.000	199.317	193737.10	0.0497	P	1.3	-0.3

y = 2.2286E-004 * x + 0.0053
R = 1.0000
DL = 3.227 ppb
BEC = 23.87 ppb

Weight: <None>
Min Conc: <None>

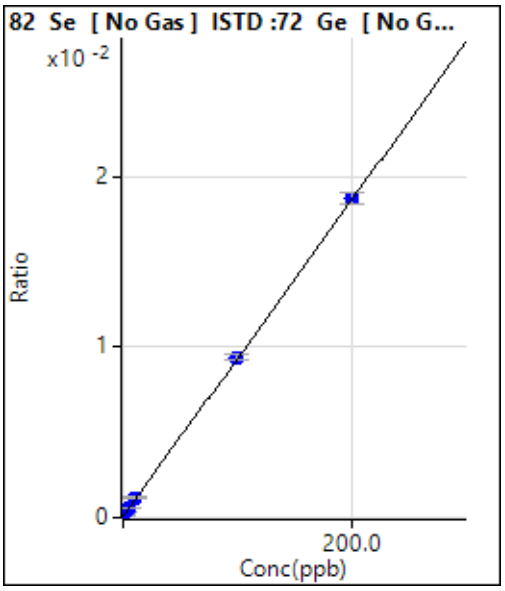


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	214.00	0.0002	P	11.7	
2	☐	2.000	2.029	554.68	0.0004	P	5.8	1.5
3	☐	5.000	4.569	987.37	0.0008	P	2.4	-8.6
4	☐	10.000	10.071	1922.81	0.0015	P	6.1	0.7
5	☐	100.000	100.061	16846.42	0.0131	P	2.0	0.1
6	☐	200.000	199.976	33039.92	0.0260	P	1.6	0.0

y = 1.2935E-004 * x + 1.6578E-004
R = 1.0000
DL = 0.4491 ppb
BEC = 1.282 ppb

Weight: <None>
Min Conc: <None>

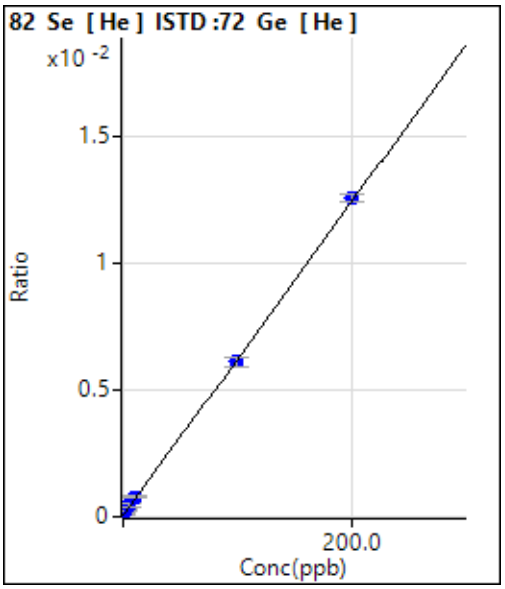
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	676.69	0.0002	P	7.9	
2	☐	2.000	2.111	1470.11	0.0004	P	6.2	5.5
3	☐	5.000	4.661	2450.26	0.0006	P	5.8	-6.8
4	☐	10.000	10.640	4684.23	0.0012	P	7.6	6.4
5	☐	100.000	99.727	37652.70	0.0094	P	3.1	-0.3
6	☐	200.000	200.112	73016.26	0.0187	P	3.0	0.1

y = 9.2849E-005 * x + 1.6679E-004
R = 1.0000
DL = 0.4239 ppb
BEC = 1.796 ppb

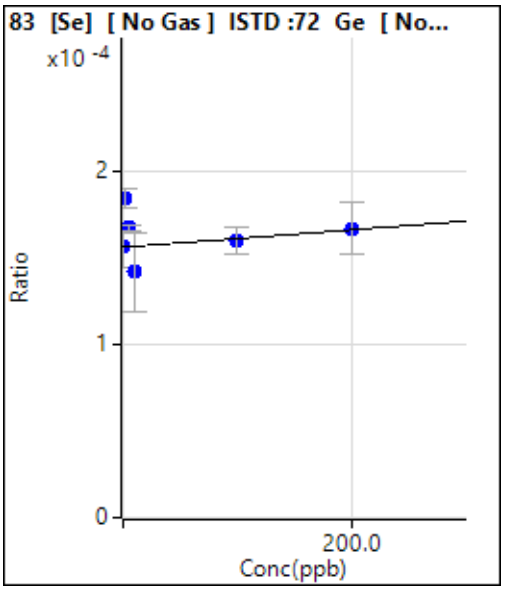
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146.67	0.0001	P	16.1	
2	☐	2.000	2.365	336.68	0.0003	P	9.1	18.2
3	☐	5.000	5.479	590.03	0.0005	P	20.5	9.6
4	☐	10.000	10.598	1006.73	0.0008	P	9.9	6.0
5	☐	100.000	97.046	7862.45	0.0061	P	6.4	-3.0
6	☐	200.000	201.432	15959.61	0.0126	P	2.5	0.7

y = 6.1861E-005 * x + 1.1362E-004
R = 0.9998
DL = 0.8895 ppb
BEC = 1.837 ppb

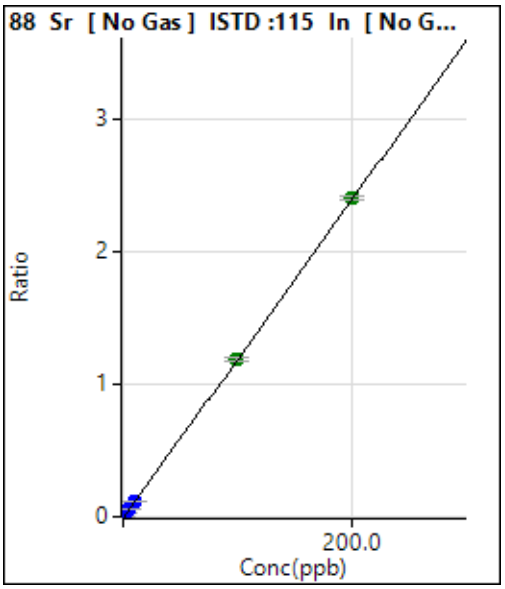
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	633.36	0.0002	P	15.6	
2	☐	2.000	561.165	746.70	0.0002	P	5.6	27958.
3	☐	5.000	221.083	683.36	0.0002	P	2.4	4321.7
4	☐	10.000	-290.439	573.35	0.0001	P	31.8	-3004.4
5	☐	100.000	80.674	640.03	0.0002	P	9.5	-19.3
6	☐	200.000	213.691	650.03	0.0002	P	18.2	6.8

y = 5.0149E-008 * x + 1.5608E-004
R = 0.0746
DL = 1454 ppb
BEC = 3112 ppb

Weight: <None>
Min Conc: <None>

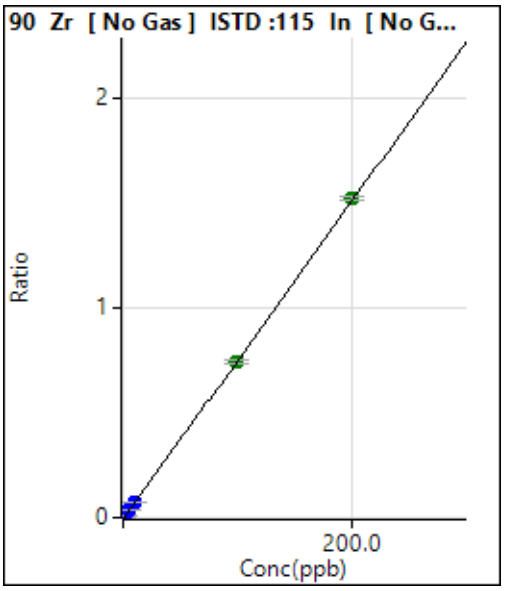


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3030.39	0.0006	P	3.5	
2	☐	2.000	2.000	115977.65	0.0247	P	3.4	0.0
3	☐	5.000	4.972	288458.12	0.0604	P	2.3	-0.6
4	☐	10.000	9.910	568789.08	0.1197	P	1.4	-0.9
5	☐	100.000	99.286	5535696.17	1.1935	A	2.2	-0.7
6	☐	200.000	200.362	10887351.09	2.4078	A	1.1	0.2

y = 0.0120 * x + 6.3673E-004
R = 1.0000
DL = 0.005495 ppb
BEC = 0.053 ppb

Weight: <None>
Min Conc: <None>

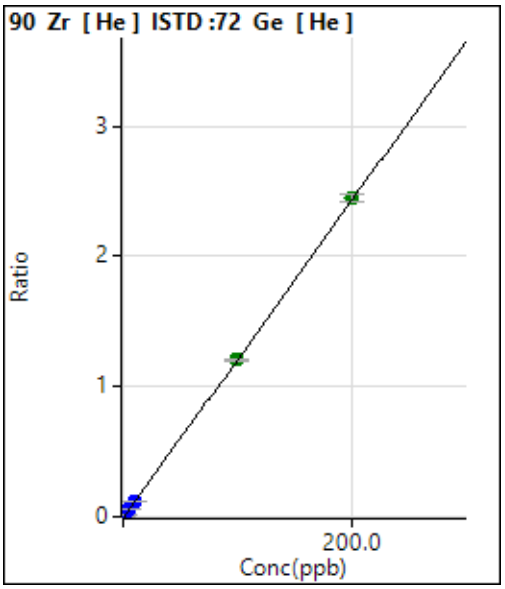
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1836.83	0.0004	P	7.9	
2	☐	2.000	1.715	62899.99	0.0134	P	1.6	-14.2
3	☐	5.000	4.470	163588.28	0.0342	P	1.2	-10.6
4	☐	10.000	9.313	336943.24	0.0709	P	1.6	-6.9
5	☐	100.000	98.150	3449409.53	0.7437	A	2.3	-1.9
6	☐	200.000	200.976	6883656.98	1.5224	A	1.7	0.5

y = 0.0076 * x + 3.8608E-004
R = 0.9999
DL = 0.01203 ppb
BEC = 0.05098 ppb

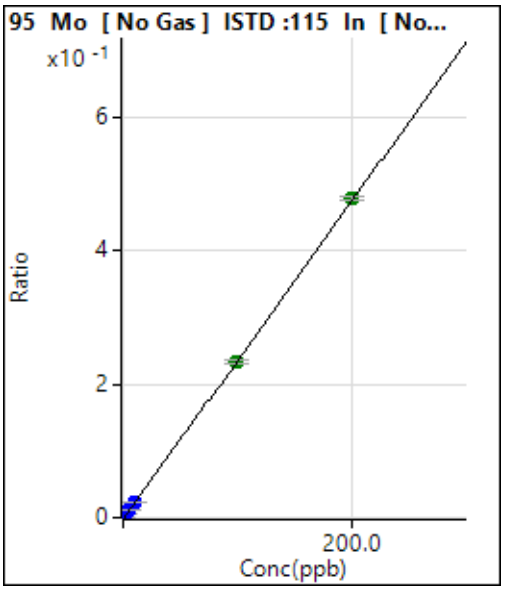
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1730.15	0.0013	P	5.8	
2	☐	2.000	1.678	28239.92	0.0218	P	2.0	-16.1
3	☐	5.000	4.532	73831.45	0.0566	P	2.3	-9.4
4	☐	10.000	9.411	152045.82	0.1161	P	2.1	-5.9
5	☐	100.000	98.704	1548037.89	1.2046	A	1.1	-1.3
6	☐	200.000	200.692	3106861.00	2.4479	A	2.8	0.3

y = 0.0122 * x + 0.0013
R = 1.0000
DL = 0.01901 ppb
BEC = 0.1099 ppb

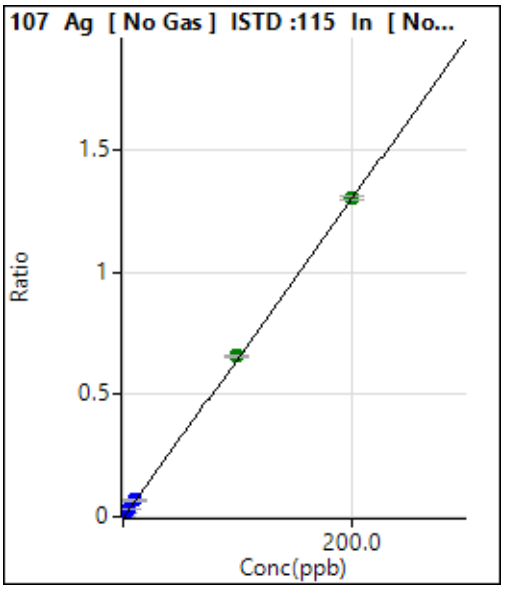
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	210.01	0.0000	P	15.6	
2	☐	2.000	1.993	22572.47	0.0048	P	2.4	-0.3
3	☐	5.000	4.919	56287.70	0.0118	P	2.5	-1.6
4	☐	10.000	9.830	111647.26	0.0235	P	3.3	-1.7
5	☐	100.000	98.260	1087665.90	0.2345	A	1.9	-1.7
6	☐	200.000	200.881	2167503.56	0.4793	A	1.5	0.4

y = 0.0024 * x + 4.4069E-005
R = 0.9999
DL = 0.008631 ppb
BEC = 0.01847 ppb

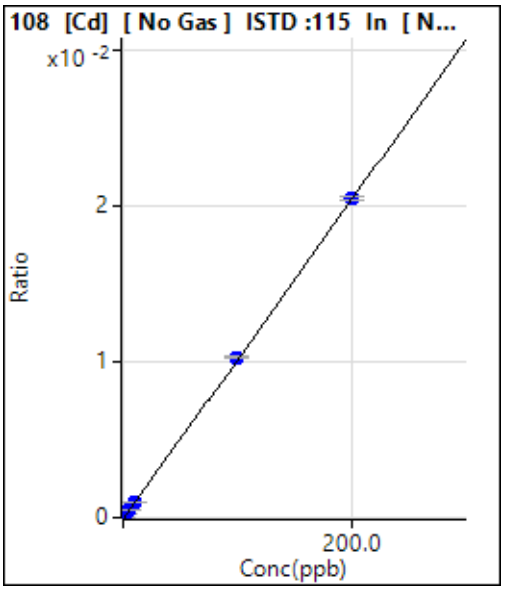
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	880.05	0.0002	P	10.2	
2	☐	2.000	2.102	65447.42	0.0139	P	3.4	5.1
3	☐	5.000	5.176	162497.00	0.0340	P	0.9	3.5
4	☐	10.000	10.251	319166.73	0.0672	P	2.9	2.5
5	☐	100.000	100.491	3046686.41	0.6568	A	1.7	0.5
6	☐	200.000	199.737	5902342.83	1.3054	A	1.2	-0.1

y = 0.0065 * x + 1.8494E-004
R = 1.0000
DL = 0.008642 ppb
BEC = 0.0283 ppb

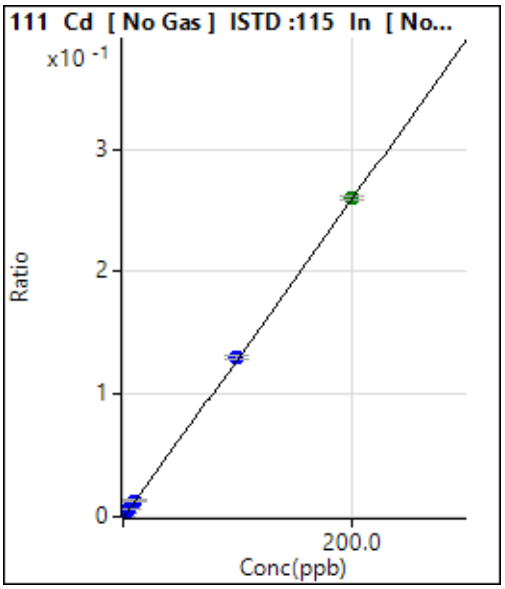
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	115.1	
2	☐	2.000	2.169	1060.06	0.0002	P	7.3	8.4
3	☐	5.000	4.664	2300.24	0.0005	P	6.7	-6.7
4	☐	10.000	9.562	4674.23	0.0010	P	7.3	-4.4
5	☐	100.000	100.375	47789.20	0.0103	P	1.2	0.4
6	☐	200.000	199.841	92741.88	0.0205	P	1.8	-0.1

y = 1.0261E-004 * x + 2.8249E-006
R = 1.0000
DL = 0.09505 ppb
BEC = 0.02753 ppb

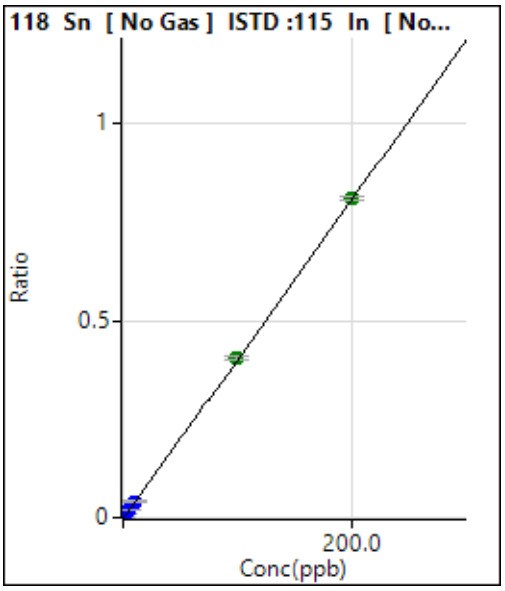
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-10.97	0.0000	P	-190.	
2	☐	2.000	2.001	12229.49	0.0026	P	4.4	0.1
3	☐	5.000	5.091	31625.78	0.0066	P	3.3	1.8
4	☐	10.000	10.115	62502.23	0.0132	P	2.6	1.2
5	☐	100.000	99.794	602021.36	0.1298	P	2.3	-0.2
6	☐	200.000	200.095	1176785.75	0.2602	A	0.9	0.0

y = 0.0013 * x - 2.3377E-006
R = 1.0000
DL = 0.01029 ppb
BEC = -0.001797 ppb

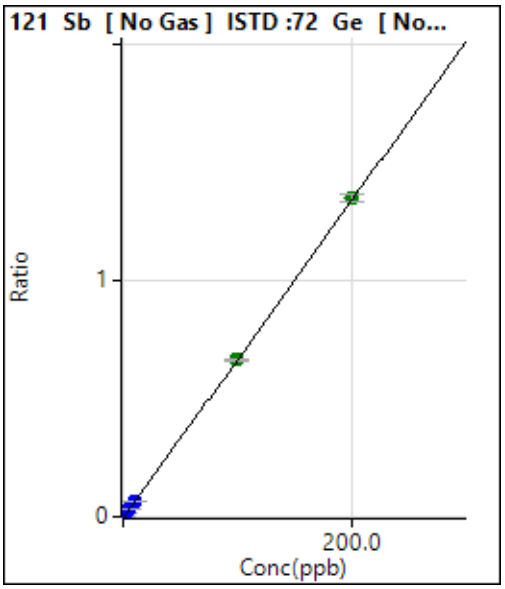
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4130.72	0.0009	P	6.2	
2	☐	2.000	2.046	43076.94	0.0092	P	1.6	2.3
3	☐	5.000	5.077	102467.26	0.0214	P	1.7	1.5
4	☐	10.000	10.026	197212.33	0.0415	P	2.1	0.3
5	☐	100.000	99.879	1881678.57	0.4057	A	1.9	-0.1
6	☐	200.000	200.057	3670344.01	0.8117	A	1.6	0.0

y = 0.0041 * x + 8.6808E-004
R = 1.0000
DL = 0.03985 ppb
BEC = 0.2142 ppb

Weight: <None>
Min Conc: <None>

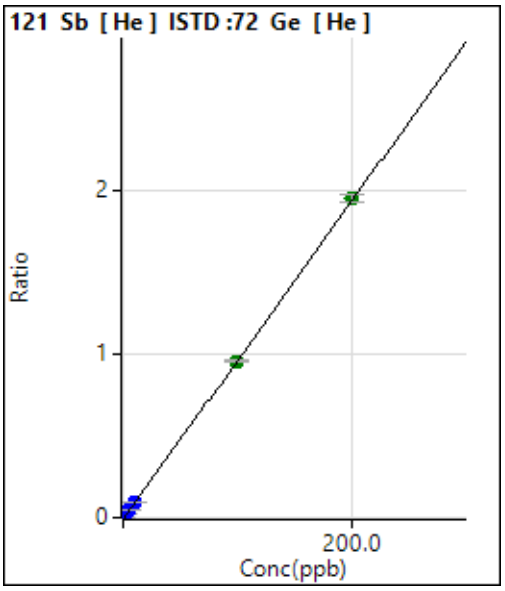


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	900.05	0.0002	P	5.4	
2	☐	2.000	2.082	57582.30	0.0142	P	4.3	4.1
3	☐	5.000	5.128	141726.25	0.0347	P	1.2	2.6
4	☐	10.000	10.169	277943.88	0.0685	P	0.9	1.7
5	☐	100.000	98.771	2651760.48	0.6638	A	1.7	-1.2
6	☐	200.000	200.602	5249948.46	1.3479	A	2.1	0.3

y = 0.0067 * x + 2.2203E-004
R = 1.0000
DL = 0.005403 ppb
BEC = 0.03305 ppb

Weight: <None>
Min Conc: <None>

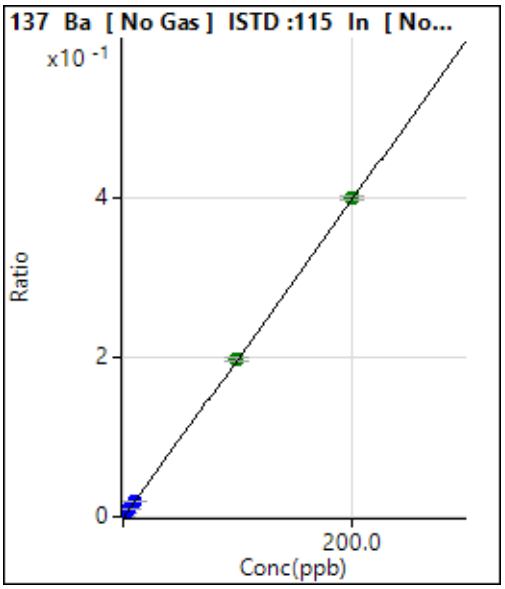
Calibration for 165_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	493.35	0.0004	P	7.9	
2	☐	2.000	2.055	26380.06	0.0204	P	3.3	2.7
3	☐	5.000	5.064	64731.62	0.0496	P	3.9	1.3
4	☐	10.000	10.062	128658.36	0.0982	P	3.3	0.6
5	☐	100.000	98.313	1228985.09	0.9563	A	1.6	-1.7
6	☐	200.000	200.838	2478989.29	1.9533	A	2.7	0.4

y = 0.0097 * x + 3.8190E-004
R = 0.9999
DL = 0.009316 ppb
BEC = 0.03928 ppb

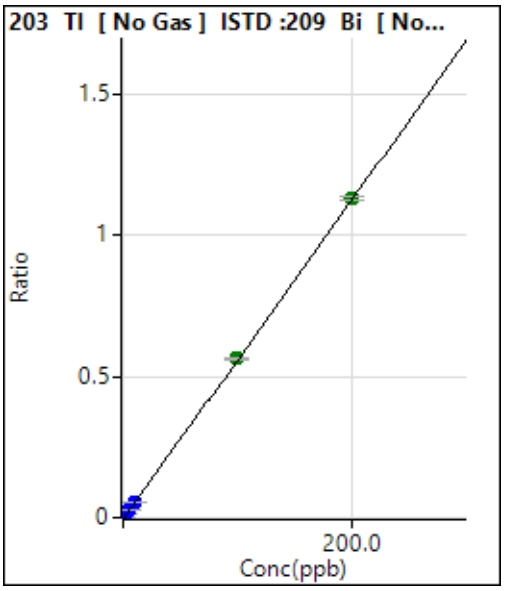
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	470.02	0.0001	P	7.3	
2	☐	2.000	1.992	19117.53	0.0041	P	1.9	-0.4
3	☐	5.000	4.984	47880.90	0.0100	P	2.7	-0.3
4	☐	10.000	9.891	94035.76	0.0198	P	0.9	-1.1
5	☐	100.000	99.164	916136.55	0.1975	A	2.3	-0.8
6	☐	200.000	200.424	1804622.47	0.3991	A	0.9	0.2

y = 0.0020 * x + 9.8719E-005
R = 1.0000
DL = 0.01081 ppb
BEC = 0.04959 ppb

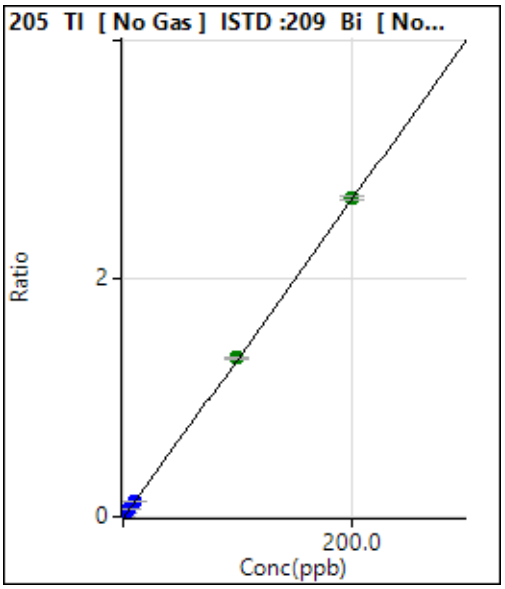
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	173.33	0.0000	P	27.3	
2	☐	2.000	1.898	45680.15	0.0108	P	1.2	-5.1
3	☐	5.000	4.940	117004.98	0.0279	P	2.7	-1.2
4	☐	10.000	9.853	235091.01	0.0557	P	2.0	-1.5
5	☐	100.000	99.552	2312583.82	0.5621	A	1.8	-0.4
6	☐	200.000	200.234	4524321.29	1.1306	A	1.7	0.1

y = 0.0056 * x + 4.0746E-005
R = 1.0000
DL = 0.005917 ppb
BEC = 0.007216 ppb

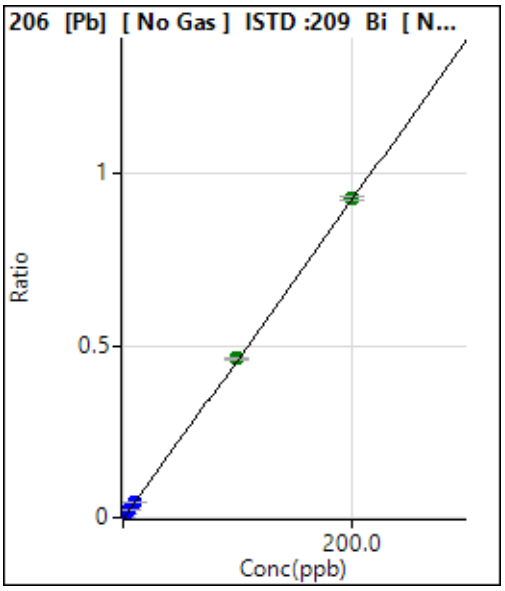
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	433.35	0.0001	P	19.8	
2	☐	2.000	1.912	109167.63	0.0257	P	1.3	-4.4
3	☐	5.000	4.946	277761.84	0.0663	P	2.0	-1.1
4	☐	10.000	9.844	556969.63	0.1319	P	1.8	-1.6
5	☐	100.000	99.584	5485952.21	1.3334	A	1.7	-0.4
6	☐	200.000	200.218	10727868.59	2.6807	A	1.4	0.1

y = 0.0134 * x + 1.0182E-004
R = 1.0000
DL = 0.004526 ppb
BEC = 0.007605 ppb

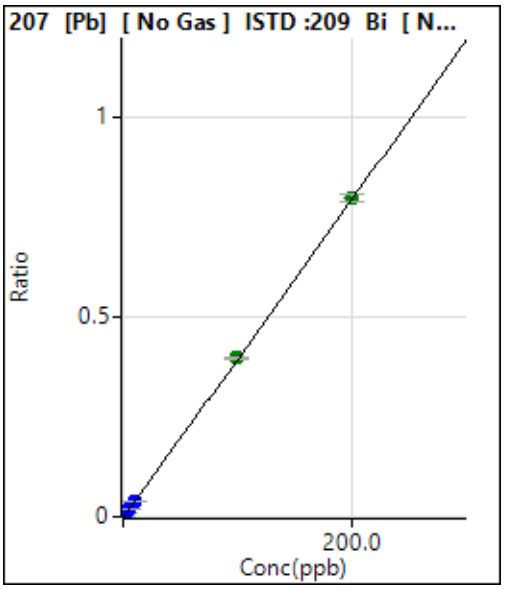
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	546.69	0.0001	P	6.9	
2	☐	2.000	2.006	40031.01	0.0094	P	1.2	0.3
3	☐	5.000	5.066	98881.64	0.0236	P	1.8	1.3
4	☐	10.000	9.956	195403.52	0.0463	P	1.7	-0.4
5	☐	100.000	99.550	1898681.38	0.4615	A	2.0	-0.4
6	☐	200.000	200.225	3714347.45	0.9281	A	1.5	0.1

y = 0.0046 * x + 1.2850E-004
R = 1.0000
DL = 0.005754 ppb
BEC = 0.02773 ppb

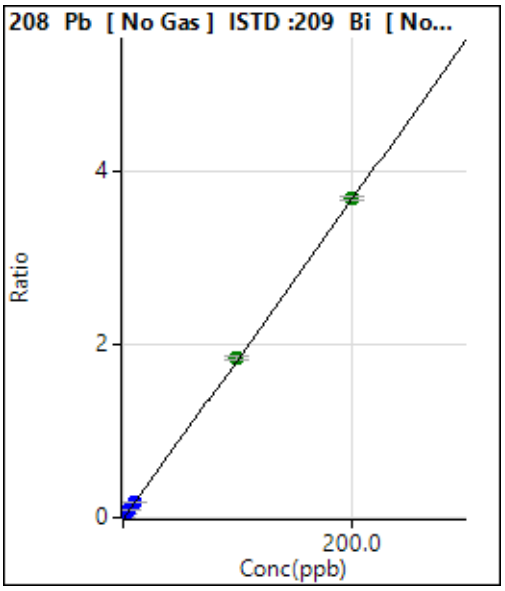
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	436.68	0.0001	P	10.3	
2	☐	2.000	2.007	34384.22	0.0081	P	2.5	0.3
3	☐	5.000	5.001	83886.90	0.0200	P	1.2	0.0
4	☐	10.000	10.001	168688.57	0.0399	P	1.6	0.0
5	☐	100.000	99.632	1633279.61	0.3970	A	2.0	-0.4
6	☐	200.000	200.184	3192079.12	0.7976	A	1.8	0.1

y = 0.0040 * x + 1.0262E-004
R = 1.0000
DL = 0.007944 ppb
BEC = 0.02576 ppb

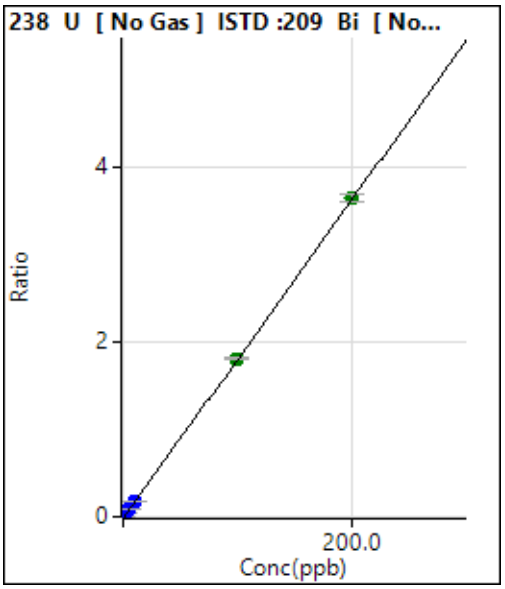
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2116.78	0.0005	P	2.6	
2	☐	2.000	2.017	159831.90	0.0376	P	1.4	0.8
3	☐	5.000	5.064	392749.81	0.0938	P	1.5	1.3
4	☐	10.000	10.022	781490.86	0.1851	P	1.7	0.2
5	☐	100.000	99.995	7578596.35	1.8421	A	1.7	0.0
6	☐	200.000	200.000	14742864.16	3.6839	A	1.7	0.0

y = 0.0184 * x + 4.9753E-004
R = 1.0000
DL = 0.002095 ppb
BEC = 0.02701 ppb

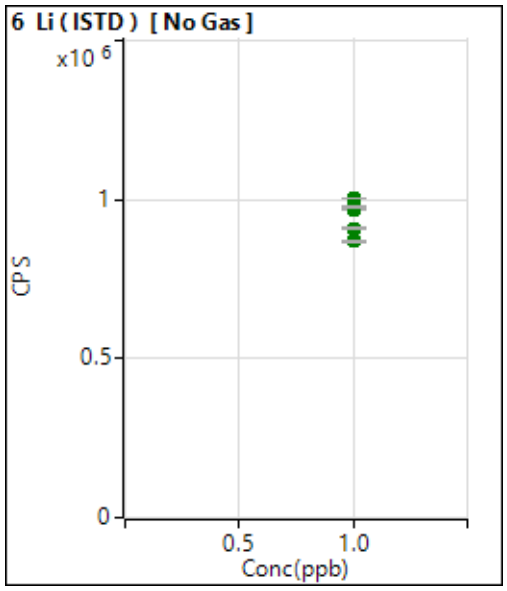
Weight: <None>
Min Conc: <None>



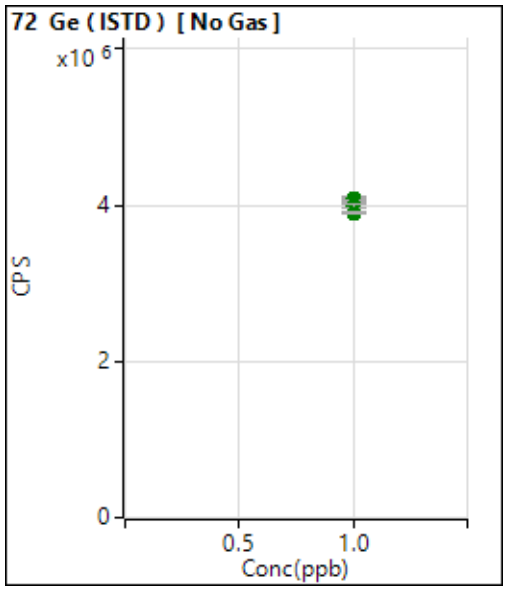
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	583.36	0.0001	P	21.5	
2	☐	2.000	1.902	147966.08	0.0348	P	1.4	-4.9
3	☐	5.000	4.828	369498.22	0.0882	P	1.5	-3.4
4	☐	10.000	9.707	748344.05	0.1772	P	1.0	-2.9
5	☐	100.000	99.467	7468000.51	1.8147	A	2.0	-0.5
6	☐	200.000	200.287	14622861.87	3.6539	A	1.9	0.1

y = 0.0182 * x + 1.3707E-004
R = 1.0000
DL = 0.004838 ppb
BEC = 0.007513 ppb

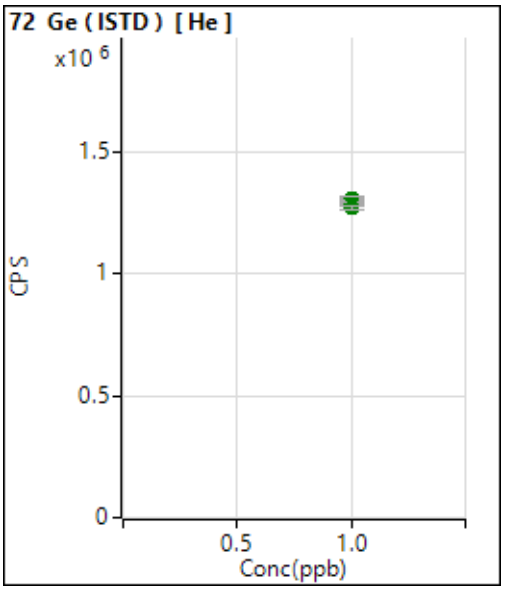
Weight: <None>
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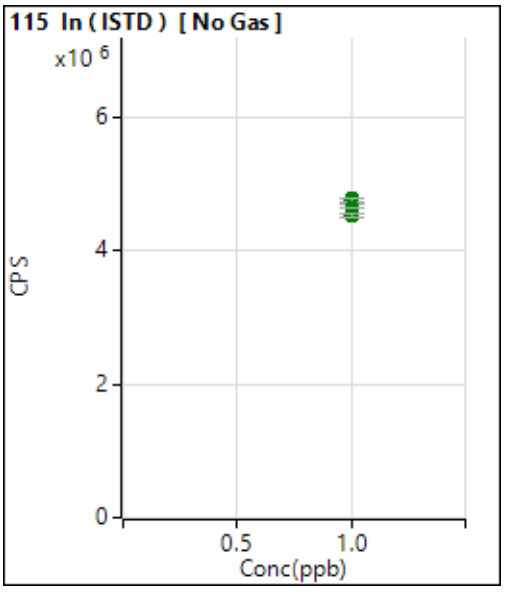
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1005681.20		A	0.6	
2	☐	1.000		967761.07		A	0.3	
3	☐	1.000		976932.24		A	0.7	
4	☐	1.000		978011.38		A	0.5	
5	☐	1.000		911358.46		A	1.2	
6	☐	1.000		869702.87		A	1.1	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4054510.88		A	1.3	
2	☐	1.000		4052670.25		A	0.6	
3	☐	1.000		4087653.07		A	0.9	
4	☐	1.000		4055374.84		A	1.0	
5	☐	1.000		3995185.36		A	1.1	
6	☐	1.000		3895222.96		A	0.5	

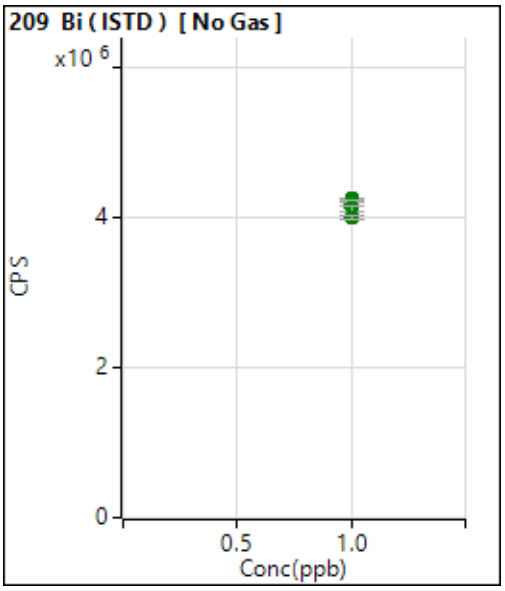


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1291478.47		A	0.6	
2	☐	1.000		1295802.98		A	1.3	
3	☐	1.000		1304867.37		A	1.1	
4	☐	1.000		1310038.21		A	1.5	
5	☐	1.000		1285034.09		A	0.9	
6	☐	1.000		1269323.08		A	1.0	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4760340.85		A	1.1	
2	☐	1.000		4703173.62		A	0.7	
3	☐	1.000		4778192.88		A	0.5	
4	☐	1.000		4751963.43		A	1.0	
5	☐	1.000		4638499.24		A	0.3	
6	☐	1.000		4521570.64		A	0.8	

Calibration for 165_ICV.d



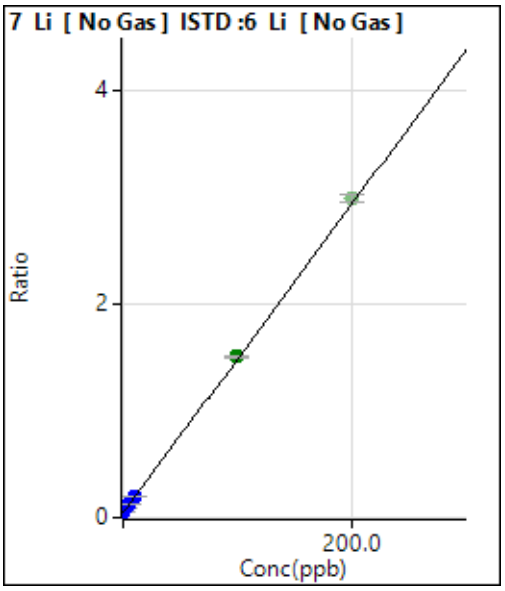
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4254343.58		A	0.3	
2	☐	1.000		4246739.31		A	0.8	
3	☐	1.000		4188506.61		A	1.4	
4	☐	1.000		4222892.43		A	0.3	
5	☐	1.000		4114705.25		A	2.0	
6	☐	1.000		4001931.29		A	1.1	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\053024A.b\
Analysis File: 053024A.batch.bin
DA Date-Time: 5/30/2024 12:04:02 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	5/30/2024 10:54:17 AM
2	011CALS.d	2/10/200	5/30/2024 10:57:00 AM
3	012CALS.d	5/25/500	5/30/2024 10:59:40 AM
4	013CALS.d	10/50/100	5/30/2024 11:02:21 AM
5	014CALS.d	100/500/10K	5/30/2024 11:05:00 AM
6	015CALS.d	200/1000/20K	5/30/2024 11:07:41 AM

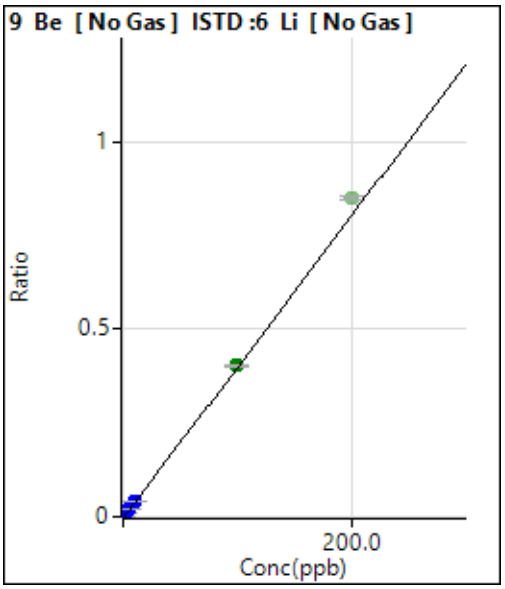
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	79004.36	0.0599	P	1.2	
2	☐	2.000	1.950	114553.62	0.0880	P	1.3	-2.5
3	☐	5.000	4.902	169767.94	0.1306	P	2.0	-2.0
4	☐	10.000	9.579	256721.10	0.1981	P	1.9	-4.2
5	☐	100.000	100.048	1873314.87	1.5029	A	0.6	0.0
6	☑	200.000		3633178.49	2.9866	A	2.2	

y = 0.0144 * x + 0.0599
R = 1.0000
DL = 0.1507 ppb
BEC = 4.153 ppb

Weight: <None>
Min Conc: <None>

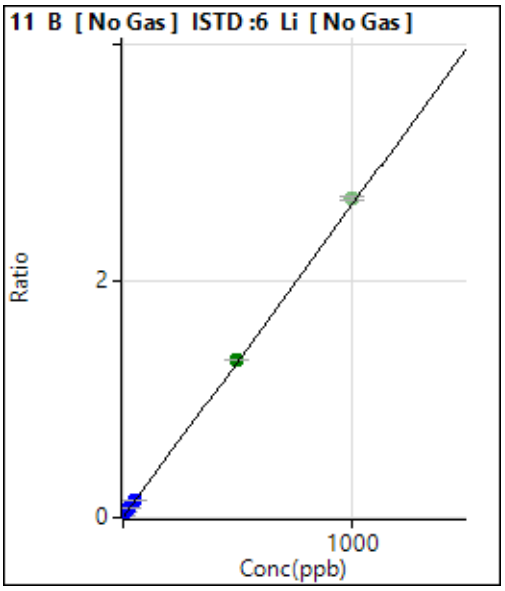


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0000	P	27.5	
2	☐	2.000	2.004	10582.33	0.0081	P	1.2	0.2
3	☐	5.000	5.092	26780.29	0.0206	P	1.6	1.8
4	☐	10.000	10.075	52779.24	0.0407	P	3.5	0.7
5	☐	100.000	99.988	503380.59	0.4038	A	1.2	0.0
6	☑	200.000		1034973.21	0.8508	A	1.7	

y = 0.0040 * x + 3.7975E-005
R = 1.0000
DL = 0.007747 ppb
BEC = 0.009403 ppb

Weight: <None>
Min Conc: <None>

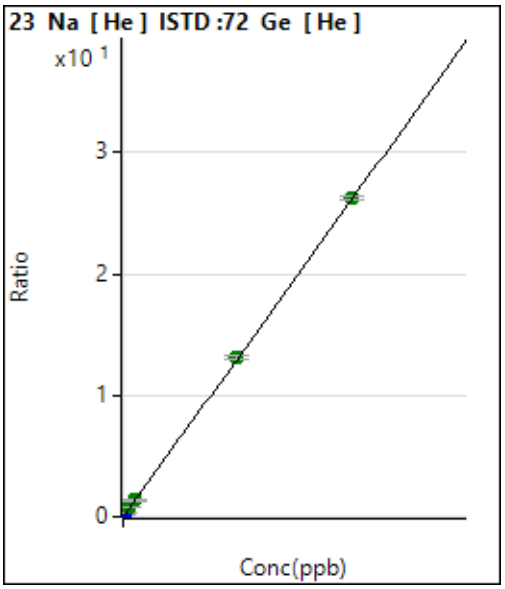
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	21122.44	0.0160	P	1.5	
2	☐	10.000	9.470	53364.92	0.0410	P	1.3	-5.3
3	☐	25.000	23.782	102413.31	0.0788	P	2.1	-4.9
4	☐	50.000	47.335	182699.12	0.1410	P	0.8	-5.3
5	☐	500.000	500.338	1666055.18	1.3366	A	0.4	0.1
6	☑	1000.000		3287217.66	2.7022	A	1.5	

y = 0.0026 * x + 0.0160
R = 1.0000
DL = 0.2712 ppb
BEC = 6.068 ppb

Weight: <None>
Min Conc: <None>

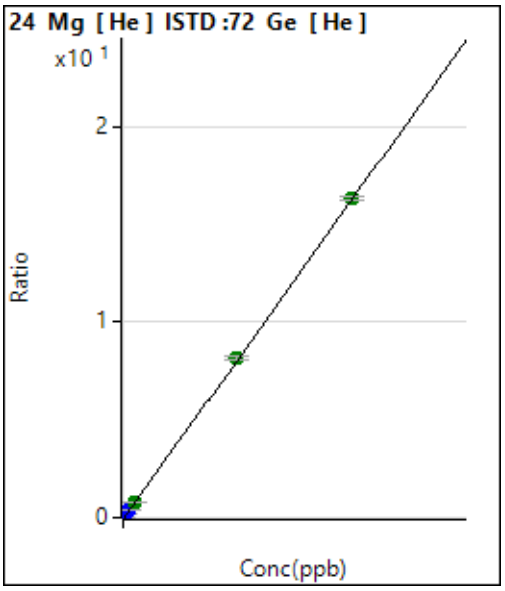


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	140133.10	0.1070	P	0.6	
2	☐	200.000	196.448	475447.96	0.3637	P	2.5	-1.8
3	☐	500.000	490.895	979549.93	0.7484	A	1.7	-1.8
4	☐	1000.000	948.632	1776733.93	1.3466	A	1.8	-5.1
5	☐	10000.00	9990.303	17068478.50	13.1613	A	2.1	-0.1
6	☐	20000.00	20007.68	33416076.17	26.2510	A	0.8	0.0

y = 0.0013 * x + 0.1070
R = 1.0000
DL = 1.545 ppb
BEC = 81.88 ppb

Weight: <None>
Min Conc: <None>

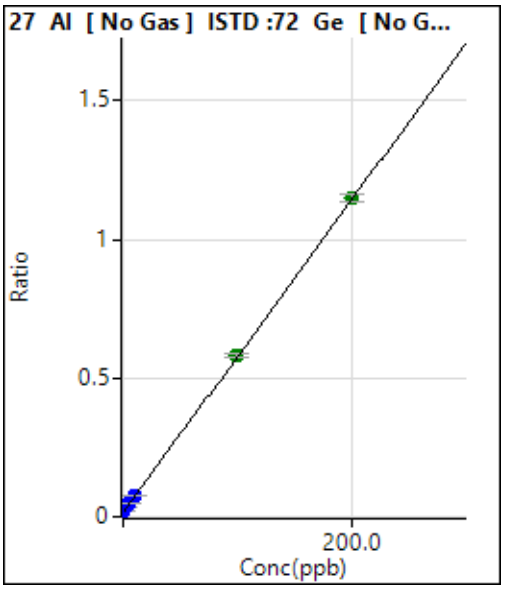
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	686.70	0.0005	P	8.3	
2	☐	200.000	196.807	210950.86	0.1614	P	3.5	-1.6
3	☐	500.000	490.009	524830.34	0.4010	P	2.3	-2.0
4	☐	1000.000	952.748	1028067.93	0.7792	A	2.4	-4.7
5	☐	10000.00	9989.566	10589004.84	8.1650	A	2.2	-0.1
6	☐	20000.00	20007.86	20817141.36	16.3529	A	1.2	0.0

y = 8.1730E-004 * x + 5.2429E-004
R = 1.0000
DL = 0.1607 ppb
BEC = 0.6415 ppb

Weight: <None>
Min Conc: <None>

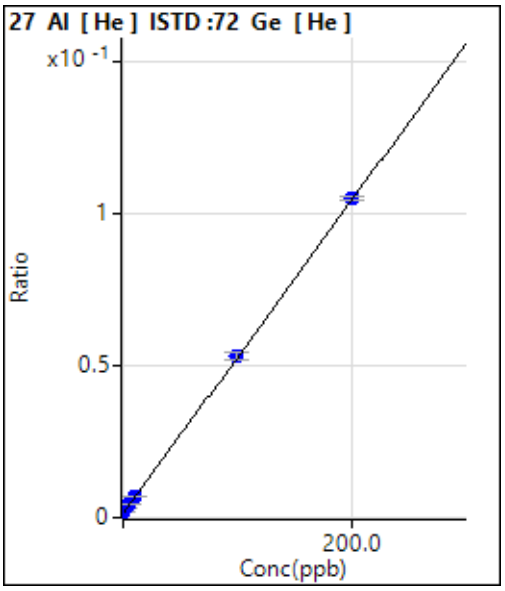


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	92043.71	0.0210	P	0.9	
2	☐	2.000	1.968	139598.47	0.0321	P	0.7	-1.6
3	☐	5.000	5.124	217396.68	0.0499	P	2.7	2.5
4	☐	10.000	10.043	337837.08	0.0776	P	3.5	0.4
5	☐	100.000	99.657	2490340.02	0.5825	A	1.8	-0.3
6	☐	200.000	200.166	4840907.95	1.1489	A	2.1	0.1

y = 0.0056 * x + 0.0210
R = 1.0000
DL = 0.09739 ppb
BEC = 3.727 ppb

Weight: <None>
Min Conc: <None>

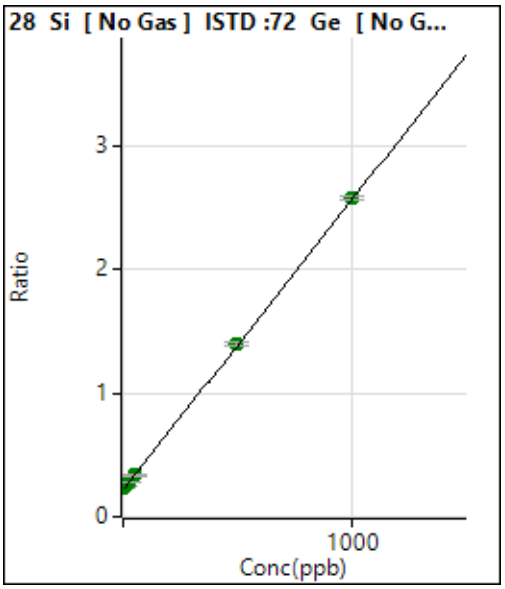
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2453.60	0.0019	P	3.3	
2	☐	2.000	2.152	3897.28	0.0030	P	4.1	7.6
3	☐	5.000	5.028	5837.99	0.0045	P	5.0	0.6
4	☐	10.000	9.981	9246.51	0.0070	P	6.3	-0.2
5	☐	100.000	99.452	68798.41	0.0531	P	3.9	-0.5
6	☐	200.000	200.273	133577.55	0.1049	P	1.4	0.1

y = 5.1459E-004 * x + 0.0019
R = 1.0000
DL = 0.3559 ppb
BEC = 3.641 ppb

Weight: <None>
Min Conc: <None>

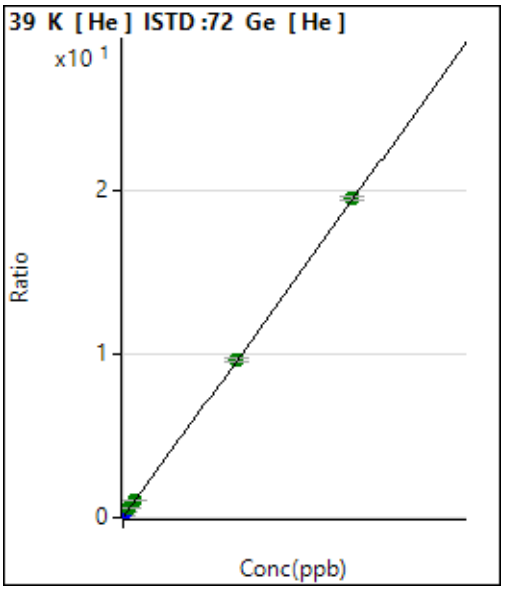


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1015381.50	0.2317	A	1.3	
2	☐	10.000	7.608	1085201.44	0.2495	A	0.2	-23.9
3	☐	25.000	21.430	1228470.40	0.2818	A	1.4	-14.3
4	☐	50.000	44.668	1463876.12	0.3362	A	2.4	-10.7
5	☐	500.000	496.486	5956593.24	1.3934	A	2.0	-0.7
6	☐	1000.000	1002.137	10856764.01	2.5765	A	1.7	0.2

y = 0.0023 * x + 0.2317
R = 1.0000
DL = 3.821 ppb
BEC = 99.01 ppb

Weight: <None>
Min Conc: <None>

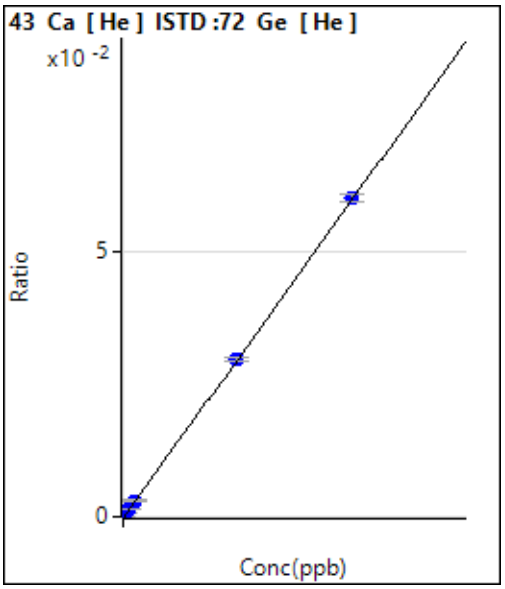
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	156552.42	0.1195	P	1.6	
2	☐	200.000	194.882	403030.22	0.3083	P	1.9	-2.6
3	☐	500.000	486.184	772778.22	0.5904	A	2.2	-2.8
4	☐	1000.000	954.928	1378082.74	1.0445	A	2.2	-4.5
5	☐	10000.00	9865.358	12547030.23	9.6751	A	2.7	-1.3
6	☐	20000.00	20069.97	24899698.80	19.5593	A	1.7	0.3

y = 9.6860E-004 * x + 0.1195
R = 1.0000
DL = 5.837 ppb
BEC = 123.4 ppb

Weight: <None>
Min Conc: <None>

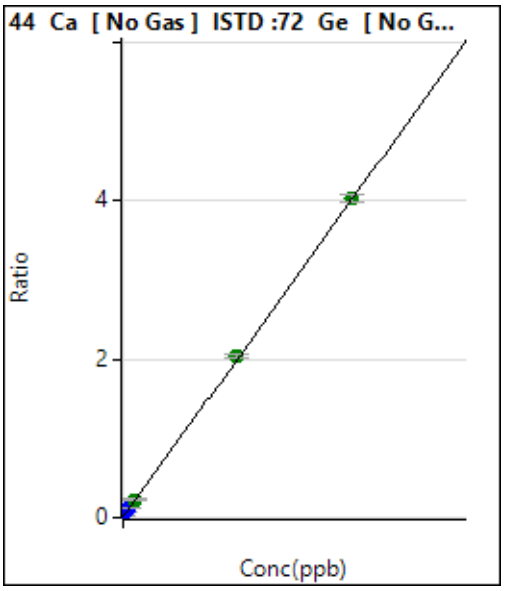


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	25.3	
2	☐	200.000	209.005	860.04	0.0007	P	3.3	4.5
3	☐	500.000	469.779	1883.49	0.0014	P	9.4	-6.0
4	☐	1000.000	980.551	3920.63	0.0030	P	12.8	-1.9
5	☐	10000.00	9906.138	38600.62	0.0298	P	2.6	-0.9
6	☐	20000.00	20048.56	76647.03	0.0602	P	2.0	0.2

y = 3.0015E-006 * x + 3.0557E-005
R = 1.0000
DL = 7.742 ppb
BEC = 10.18 ppb

Weight: <None>
Min Conc: <None>

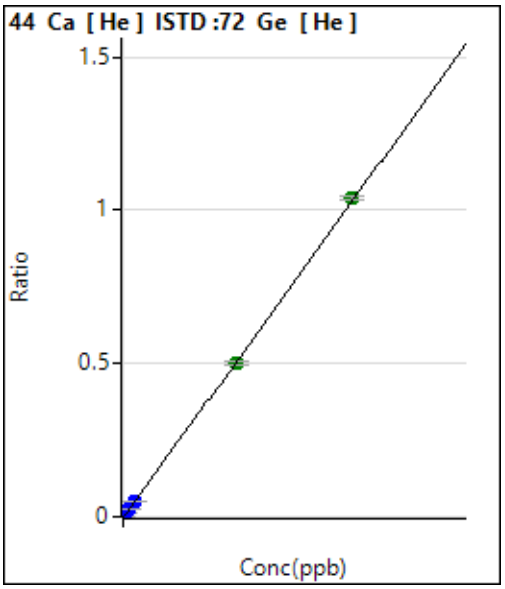
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	121620.90	0.0278	P	1.3	
2	☐	200.000	208.297	302277.34	0.0695	P	1.0	4.1
3	☐	500.000	516.614	572126.78	0.1312	P	2.5	3.3
4	☐	1000.000	1008.759	1000791.03	0.2298	A	2.9	0.9
5	☐	10000.00	10010.13	8691347.99	2.0331	A	2.5	0.1
6	☐	20000.00	19993.99	16994013.50	4.0332	A	1.8	0.0

y = 2.0033E-004 * x + 0.0278
R = 1.0000
DL = 5.537 ppb
BEC = 138.5 ppb

Weight: <None>
Min Conc: <None>

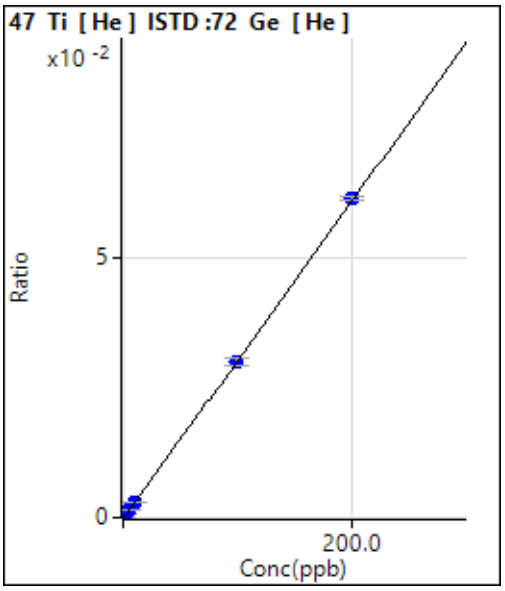


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2153.54	0.0016	P	14.9	
2	☐	200.000	186.276	14698.00	0.0112	P	6.5	-6.9
3	☐	500.000	475.173	34205.65	0.0261	P	1.2	-5.0
4	☐	1000.000	950.098	66776.66	0.0506	P	2.8	-5.0
5	☐	10000.00	9707.793	651031.24	0.5020	A	2.7	-2.9
6	☐	20000.00	20149.35	1324168.78	1.0402	A	1.7	0.7

y = 5.1541E-005 * x + 0.0016
R = 0.9999
DL = 14.3 ppb
BEC = 31.89 ppb

Weight: <None>
Min Conc: <None>

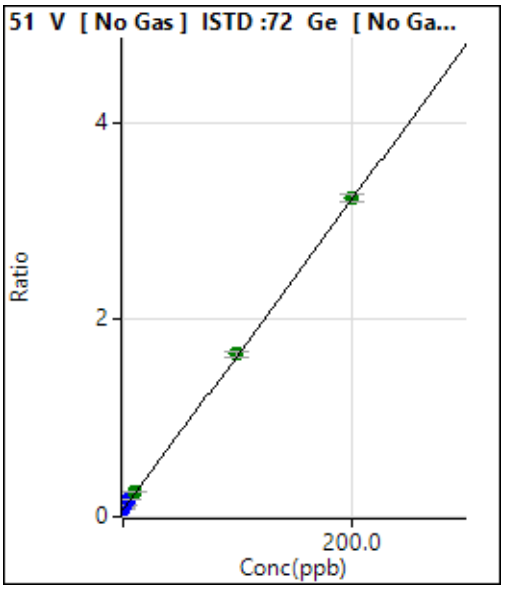
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.35	0.0000	P	120.0	
2	☐	2.000	1.964	850.04	0.0007	P	12.5	-1.8
3	☐	5.000	4.555	1890.17	0.0014	P	4.1	-8.9
4	☐	10.000	9.544	3920.62	0.0030	P	10.2	-4.6
5	☐	100.000	97.994	39005.12	0.0301	P	4.0	-2.0
6	☐	200.000	201.037	78494.84	0.0617	P	1.7	0.5

y = 3.0646E-004 * x + 4.8556E-005
R = 0.9999
DL = 0.5705 ppb
BEC = 0.1584 ppb

Weight: <None>
Min Conc: <None>

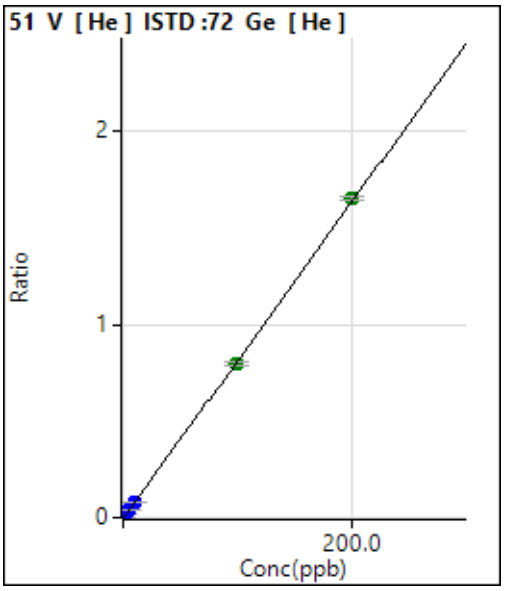


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383113.49	0.0874	P	1.3	
2	☐	2.000	2.237	533472.85	0.1226	P	0.5	11.9
3	☐	5.000	5.513	759220.36	0.1742	P	1.4	10.3
4	☐	10.000	10.627	1108787.20	0.2546	A	2.4	6.3
5	☐	100.000	99.505	7066268.05	1.6530	A	3.1	-0.5
6	☐	200.000	200.201	13639423.16	3.2372	A	2.4	0.1

y = 0.0157 * x + 0.0874
R = 1.0000
DL = 0.2093 ppb
BEC = 5.557 ppb

Weight: <None>
Min Conc: <None>

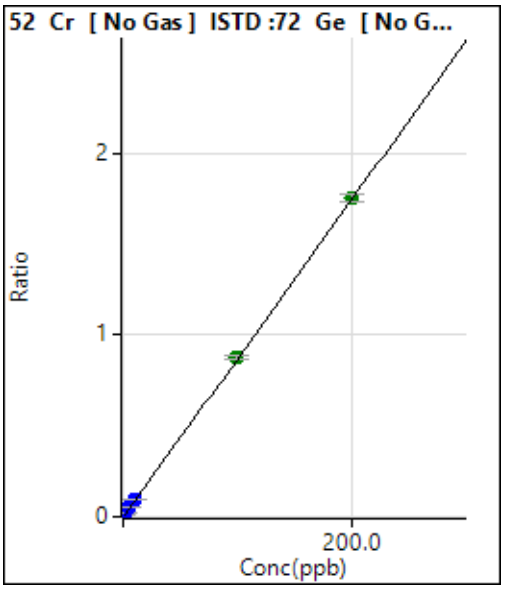
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3530.48	0.0027	P	4.0	
2	☐	2.000	1.926	24136.56	0.0185	P	3.6	-3.7
3	☐	5.000	4.783	54784.47	0.0419	P	2.4	-4.3
4	☐	10.000	9.428	105397.66	0.0799	P	3.3	-5.7
5	☐	100.000	97.138	1034922.49	0.7980	A	2.6	-2.9
6	☐	200.000	201.466	2103224.71	1.6522	A	1.1	0.7

y = 0.0082 * x + 0.0027
R = 0.9999
DL = 0.03971 ppb
BEC = 0.3292 ppb

Weight: <None>
Min Conc: <None>

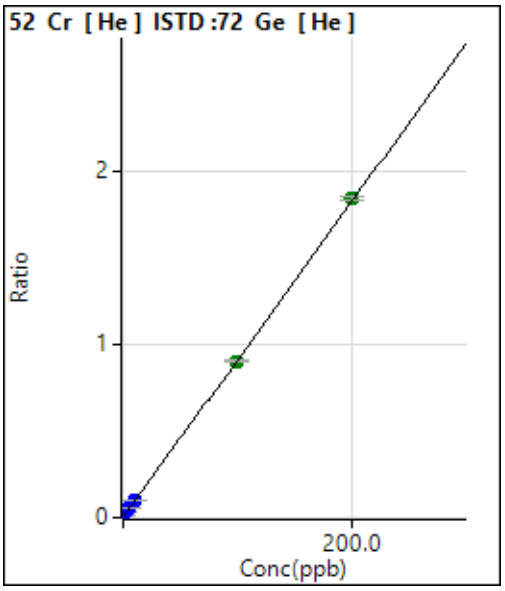


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26145.05	0.0060	P	3.1	
2	☐	2.000	1.988	101457.35	0.0233	P	1.4	-0.6
3	☐	5.000	5.058	218460.73	0.0501	P	2.9	1.2
4	☐	10.000	9.910	402677.09	0.0925	P	3.3	-0.9
5	☐	100.000	99.849	3751589.63	0.8776	A	3.2	-0.2
6	☐	200.000	200.079	7383958.85	1.7525	A	2.4	0.0

y = 0.0087 * x + 0.0060
R = 1.0000
DL = 0.06291 ppb
BEC = 0.6836 ppb

Weight: <None>
Min Conc: <None>

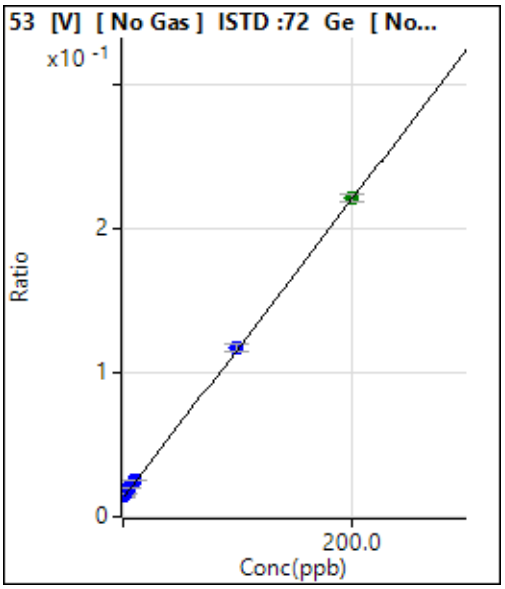
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13600.27	0.0104	P	1.4	
2	☐	2.000	2.004	37484.44	0.0287	P	2.0	0.2
3	☐	5.000	4.985	73136.18	0.0559	P	3.4	-0.3
4	☐	10.000	9.562	128849.35	0.0977	P	2.2	-4.4
5	☐	100.000	97.869	1171939.64	0.9037	A	1.8	-2.1
6	☐	200.000	201.088	2349507.78	1.8457	A	0.7	0.5

y = 0.0091 * x + 0.0104
R = 0.9999
DL = 0.0463 ppb
BEC = 1.138 ppb

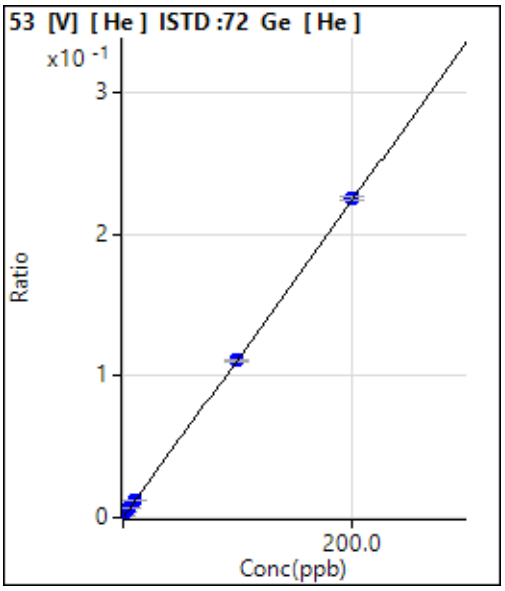
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	61563.72	0.0140	P	1.5	
2	☐	2.000	2.451	72168.22	0.0166	P	0.4	22.6
3	☐	5.000	6.108	88837.56	0.0204	P	1.2	22.2
4	☐	10.000	10.966	110663.55	0.0254	P	1.8	9.7
5	☐	100.000	99.731	501854.97	0.1174	P	3.5	-0.3
6	☐	200.000	200.054	932675.25	0.2214	A	2.2	0.0

y = 0.0010 * x + 0.0140
R = 1.0000
DL = 0.6165 ppb
BEC = 13.56 ppb

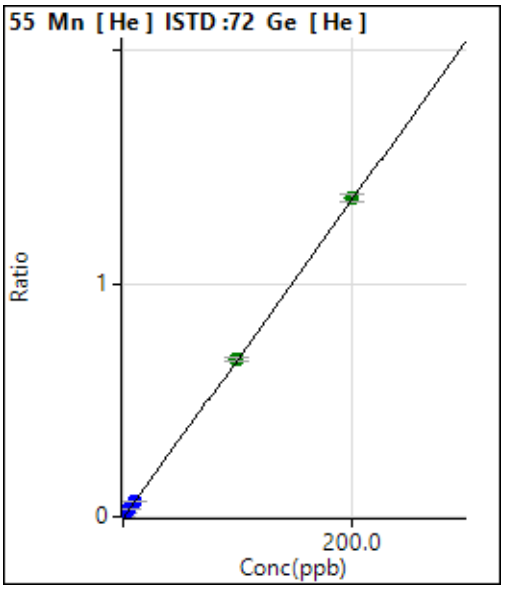
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1536.78	0.0012	P	3.0	
2	☐	2.000	2.197	4737.56	0.0036	P	4.8	9.9
3	☐	5.000	4.928	8729.56	0.0067	P	1.7	-1.4
4	☐	10.000	9.712	15836.02	0.0120	P	6.0	-2.9
5	☐	100.000	98.503	144017.82	0.1110	P	1.4	-1.5
6	☐	200.000	200.763	286551.67	0.2251	P	1.1	0.4

y = 0.0011 * x + 0.0012
R = 1.0000
DL = 0.09409 ppb
BEC = 1.052 ppb

Weight: <None>
Min Conc: <None>

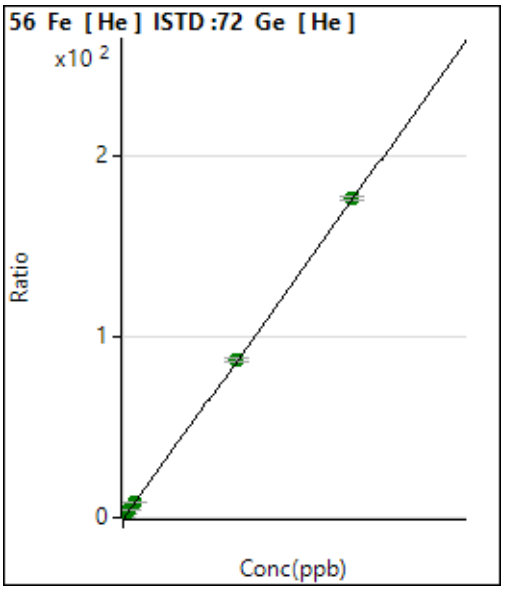


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	726.70	0.0006	P	5.4	
2	☐	2.000	1.951	18132.17	0.0139	P	2.8	-2.5
3	☐	5.000	4.937	44833.18	0.0343	P	2.3	-1.3
4	☐	10.000	9.532	86577.11	0.0656	P	2.3	-4.7
5	☐	100.000	99.072	877730.51	0.6768	A	3.2	-0.9
6	☐	200.000	200.489	1742799.35	1.3690	A	1.9	0.2

y = 0.0068 * x + 5.5481E-004
R = 1.0000
DL = 0.01306 ppb
BEC = 0.08128 ppb

Weight: <None>
Min Conc: <None>

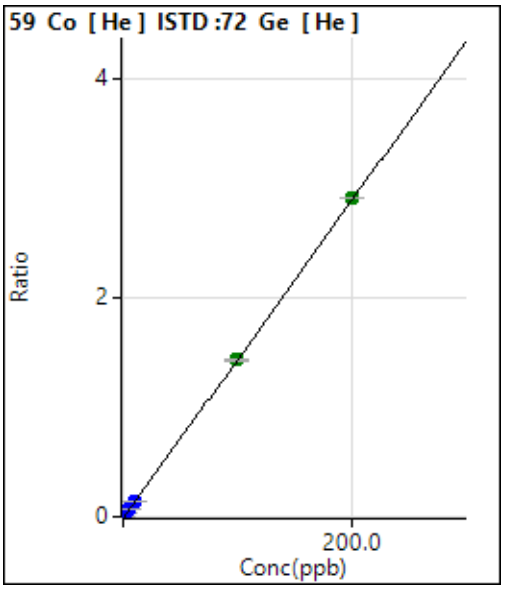
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	18742.95	0.0143	P	4.0	
2	☐	200.000	194.353	2255652.31	1.7255	A	2.8	-2.8
3	☐	500.000	488.127	5643622.42	4.3120	A	2.8	-2.4
4	☐	1000.000	948.277	11033917.34	8.3634	A	3.2	-5.2
5	☐	10000.00	9929.608	113401448.3	87.4397	A	2.2	-0.7
6	☐	20000.00	20038.13	224603709.9	176.440	A	1.2	0.2

y = 0.0088 * x + 0.0143
R = 1.0000
DL = 0.195 ppb
BEC = 1.626 ppb

Weight: <None>
Min Conc: <None>

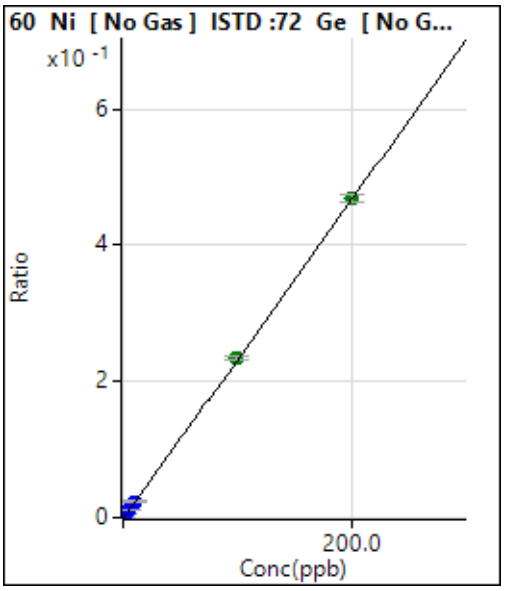


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0001	P	14.0	
2	☐	2.000	2.004	38146.43	0.0292	P	0.5	0.2
3	☐	5.000	4.932	93855.25	0.0717	P	3.2	-1.4
4	☐	10.000	9.488	181917.15	0.1379	P	2.8	-5.1
5	☐	100.000	98.697	1859126.38	1.4334	A	1.6	-1.3
6	☐	200.000	200.679	3709878.38	2.9145	A	0.4	0.3

y = 0.0145 * x + 8.1425E-005
R = 1.0000
DL = 0.002355 ppb
BEC = 0.005607 ppb

Weight: <None>
Min Conc: <None>

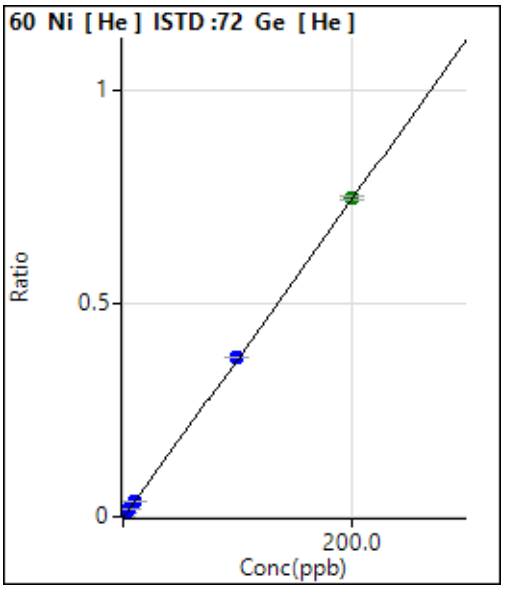
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1170.07	0.0003	P	5.5	
2	☐	2.000	2.036	21917.88	0.0050	P	5.0	1.8
3	☐	5.000	5.087	53129.53	0.0122	P	2.1	1.7
4	☐	10.000	9.954	102728.30	0.0236	P	4.0	-0.5
5	☐	100.000	100.188	1004801.55	0.2350	A	2.2	0.2
6	☐	200.000	199.906	1974850.23	0.4687	A	2.5	0.0

y = 0.0023 * x + 2.6703E-004
R = 1.0000
DL = 0.0187 ppb
BEC = 0.114 ppb

Weight: <None>
Min Conc: <None>

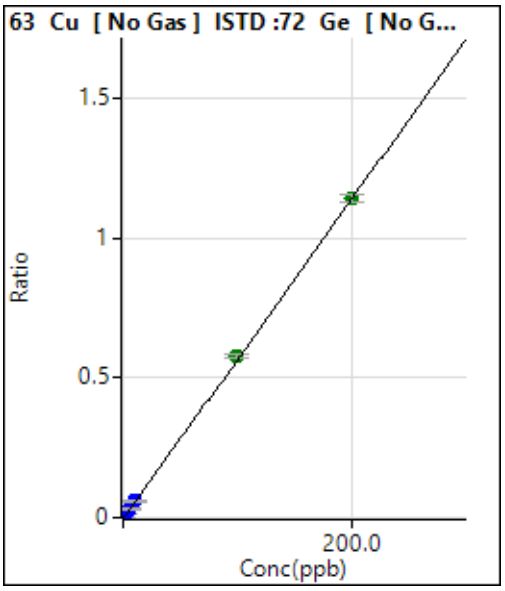


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	543.35	0.0004	P	1.7	
2	☐	2.000	1.950	10057.13	0.0077	P	5.1	-2.5
3	☐	5.000	4.898	24478.75	0.0187	P	1.7	-2.0
4	☐	10.000	9.813	48876.92	0.0370	P	3.5	-1.9
5	☐	100.000	99.803	483719.82	0.3730	P	0.7	-0.2
6	☐	200.000	200.111	951407.85	0.7474	A	1.3	0.1

y = 0.0037 * x + 4.1491E-004
R = 1.0000
DL = 0.005531 ppb
BEC = 0.1112 ppb

Weight: <None>
Min Conc: <None>

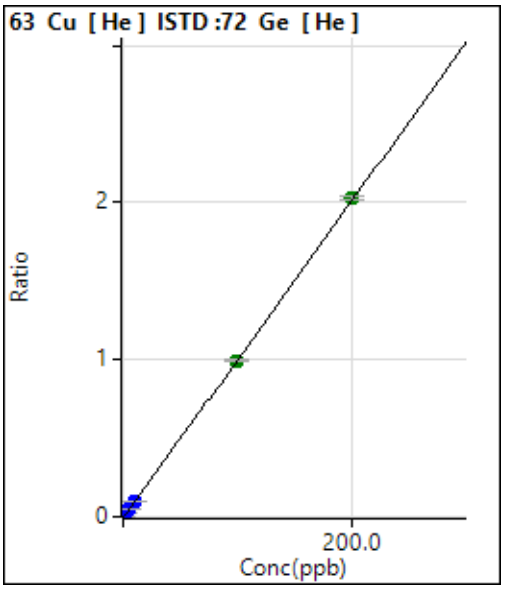
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3647.22	0.0008	P	1.3	
2	☐	2.000	2.084	55395.03	0.0127	P	0.6	4.2
3	☐	5.000	5.217	133527.37	0.0306	P	2.1	4.3
4	☐	10.000	10.183	256911.45	0.0590	P	3.2	1.8
5	☐	100.000	100.749	2463851.26	0.5763	A	2.1	0.7
6	☐	200.000	199.610	4807988.05	1.1411	A	2.3	-0.2

y = 0.0057 * x + 8.3232E-004
R = 1.0000
DL = 0.005683 ppb
BEC = 0.1457 ppb

Weight: <None>
Min Conc: <None>

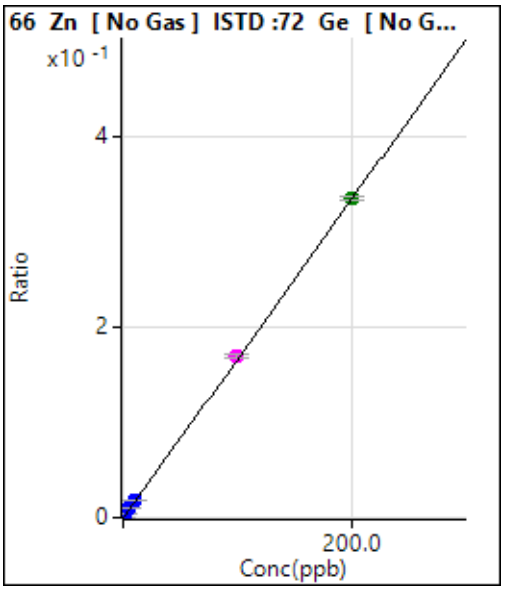


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1760.15	0.0013	P	7.4	
2	☐	2.000	1.973	27781.87	0.0213	P	2.3	-1.4
3	☐	5.000	4.979	67545.80	0.0516	P	0.6	-0.4
4	☐	10.000	9.482	128033.07	0.0970	P	2.4	-5.2
5	☐	100.000	98.170	1286777.17	0.9921	A	1.3	-1.8
6	☐	200.000	200.942	2583323.92	2.0294	A	0.9	0.5

y = 0.0101 * x + 0.0013
R = 0.9999
DL = 0.02956 ppb
BEC = 0.1332 ppb

Weight: <None>
Min Conc: <None>

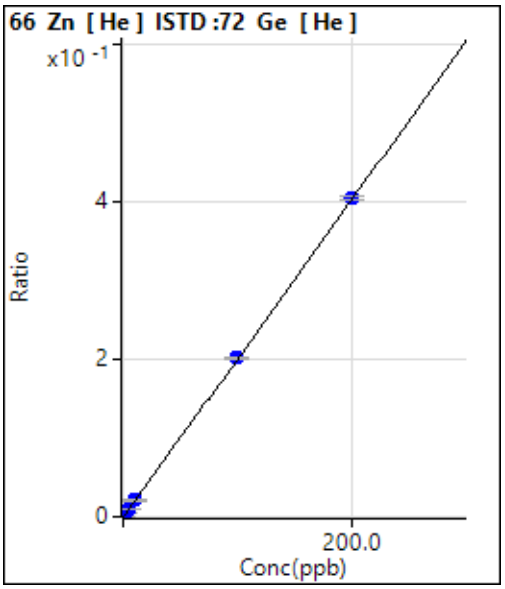
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4010.67	0.0009	P	5.2	
2	☐	2.000	1.945	18152.26	0.0042	P	4.0	-2.8
3	☐	5.000	4.993	40439.99	0.0093	P	2.1	-0.1
4	☐	10.000	9.927	76378.97	0.0175	P	1.8	-0.7
5	☐	100.000	100.778	725440.82	0.1697	M	1.8	0.8
6	☐	200.000	199.615	1412534.72	0.3352	A	1.6	-0.2

y = 0.0017 * x + 9.1506E-004
R = 1.0000
DL = 0.08567 ppb
BEC = 0.5464 ppb

Weight: <None>
Min Conc: <None>

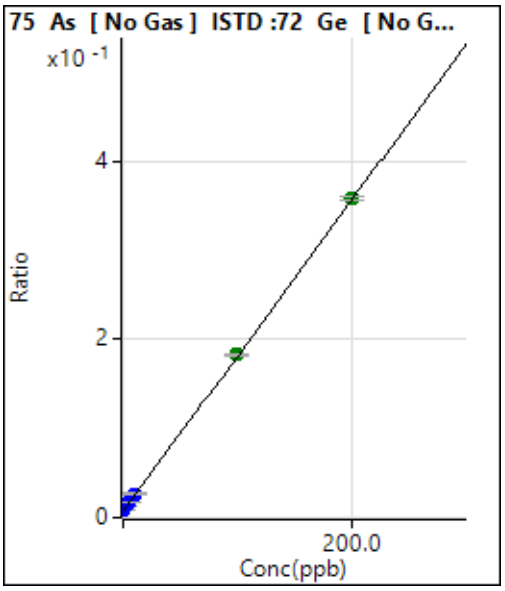


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1560.12	0.0012	P	3.0	
2	☐	2.000	1.872	6491.64	0.0050	P	5.3	-6.4
3	☐	5.000	4.782	14180.87	0.0108	P	0.5	-4.4
4	☐	10.000	9.737	27474.55	0.0208	P	3.2	-2.6
5	☐	100.000	99.635	262092.49	0.2021	P	1.1	-0.4
6	☐	200.000	200.202	515373.94	0.4049	P	1.1	0.1

y = 0.0020 * x + 0.0012
R = 1.0000
DL = 0.0536 ppb
BEC = 0.5908 ppb

Weight: <None>
Min Conc: <None>

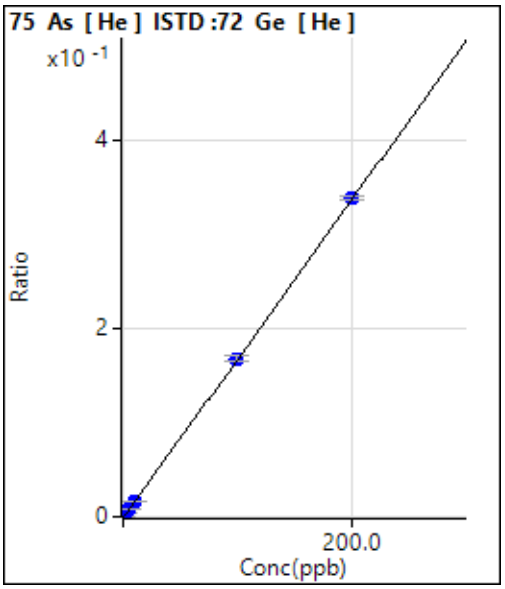
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	38762.13	0.0088	P	1.8	
2	☐	2.000	2.116	54552.51	0.0125	P	1.0	5.8
3	☐	5.000	5.236	78417.86	0.0180	P	1.0	4.7
4	☐	10.000	10.218	116211.18	0.0267	P	3.1	2.2
5	☐	100.000	99.563	781129.73	0.1827	A	1.8	-0.4
6	☐	200.000	200.201	1510592.89	0.3585	A	0.8	0.1

y = 0.0017 * x + 0.0088
R = 1.0000
DL = 0.2754 ppb
BEC = 5.064 ppb

Weight: <None>
Min Conc: <None>

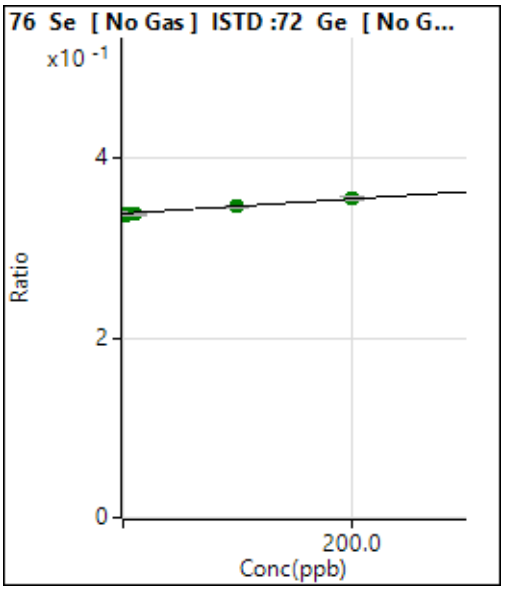


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	382.23	0.0003	P	5.7	
2	☐	2.000	1.995	4795.31	0.0037	P	4.4	-0.2
3	☐	5.000	4.912	11261.37	0.0086	P	4.2	-1.8
4	☐	10.000	9.535	21672.78	0.0164	P	3.9	-4.6
5	☐	100.000	99.432	218610.27	0.1686	P	2.6	-0.6
6	☐	200.000	200.309	431893.45	0.3393	P	0.8	0.2

y = 0.0017 * x + 2.9193E-004
R = 1.0000
DL = 0.02925 ppb
BEC = 0.1725 ppb

Weight: <None>
Min Conc: <None>

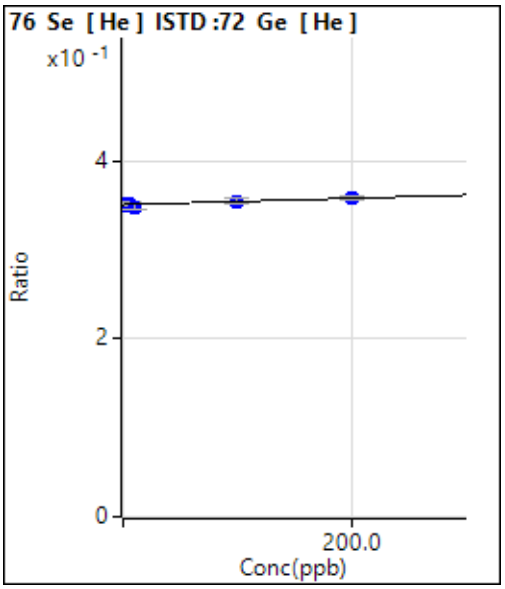
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1485249.93	0.3389	A	0.8	
2	☐	2.000	-36.633	1461274.46	0.3359	A	1.1	-1931.7
3	☐	5.000	5.647	1479452.74	0.3394	A	1.1	12.9
4	☐	10.000	-12.313	1471566.28	0.3379	A	0.8	-223.1
5	☐	100.000	89.102	1479840.19	0.3462	A	0.9	-10.9
6	☐	200.000	206.935	1499107.90	0.3558	A	1.7	3.5

y = 8.1418E-005 * x + 0.3389
R = 0.9864
DL = 101.4 ppb
BEC = 4163 ppb

Weight: <None>
Min Conc: <None>

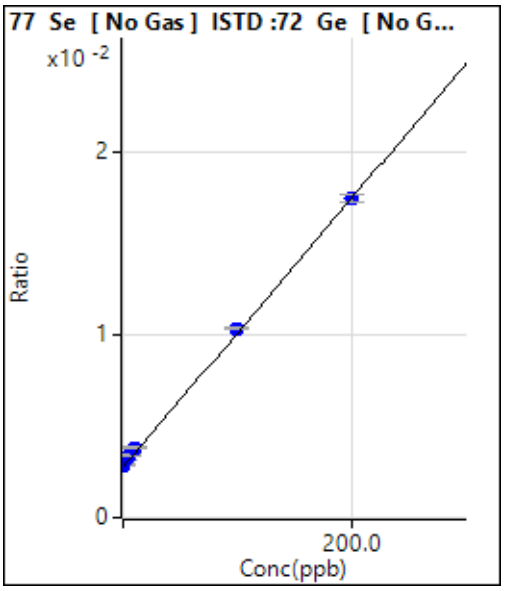


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	459691.47	0.3510	P	0.8	
2	☐	2.000	31.264	460360.41	0.3521	P	0.4	1463.2
3	☐	5.000	11.174	459918.29	0.3514	P	1.2	123.5
4	☐	10.000	-86.223	458955.23	0.3478	P	1.8	-962.2
5	☐	100.000	94.572	459698.25	0.3545	P	1.7	-5.4
6	☐	200.000	207.078	456381.75	0.3586	P	1.1	3.5

y = 3.6575E-005 * x + 0.3510
R = 0.9001
DL = 223.3 ppb
BEC = 9596 ppb

Weight: <None>
Min Conc: <None>

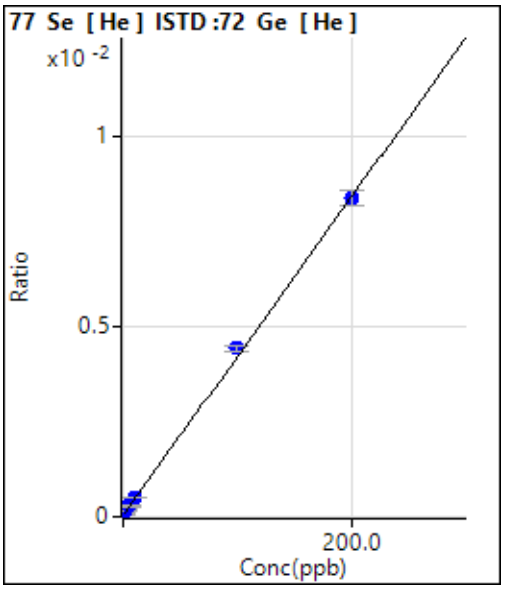
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12535.96	0.0029	P	4.3	
2	☐	2.000	3.757	13647.07	0.0031	P	1.5	87.8
3	☐	5.000	6.976	14708.22	0.0034	P	3.1	39.5
4	☐	10.000	12.967	16617.05	0.0038	P	2.2	29.7
5	☐	100.000	101.959	44295.56	0.0104	P	0.8	2.0
6	☐	200.000	198.805	73675.61	0.0175	P	2.0	-0.6

y = 7.3566E-005 * x + 0.0029
R = 0.9999
DL = 4.999 ppb
BEC = 38.89 ppb

Weight: <None>
Min Conc: <None>

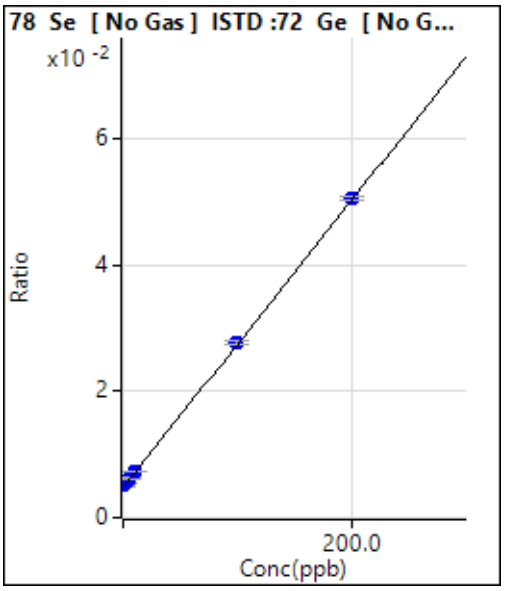


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	106.67	0.0001	P	60.5	
2	☐	2.000	2.071	220.01	0.0002	P	25.1	3.6
3	☐	5.000	4.746	366.68	0.0003	P	12.9	-5.1
4	☐	10.000	9.924	656.70	0.0005	P	4.9	-0.8
5	☐	100.000	103.706	5751.33	0.0044	P	2.8	3.7
6	☐	200.000	198.156	10691.06	0.0084	P	5.2	-0.9

y = 4.1967E-005 * x + 8.1319E-005
R = 0.9998
DL = 3.519 ppb
BEC = 1.938 ppb

Weight: <None>
Min Conc: <None>

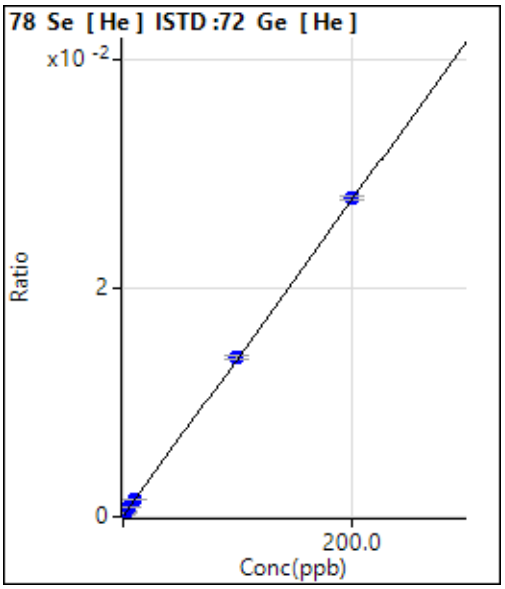
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22124.87	0.0050	P	1.2	
2	☐	2.000	1.709	23654.11	0.0054	P	3.6	-14.6
3	☐	5.000	4.921	26880.18	0.0062	P	2.6	-1.6
4	☐	10.000	9.763	31637.01	0.0073	P	2.6	-2.4
5	☐	100.000	99.411	118082.38	0.0276	P	1.7	-0.6
6	☐	200.000	200.311	212933.55	0.0505	P	1.0	0.2

y = 2.2707E-004 * x + 0.0050
R = 1.0000
DL = 0.7768 ppb
BEC = 22.24 ppb

Weight: <None>
Min Conc: <None>

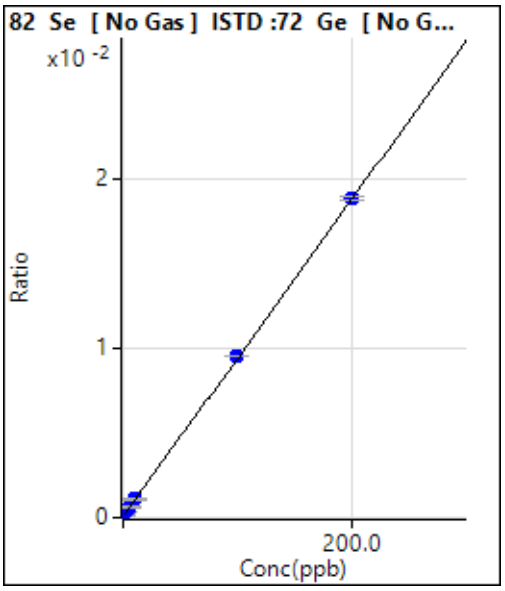


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.00	0.0002	P	13.6	
2	☐	2.000	1.663	540.68	0.0004	P	5.2	-16.9
3	☐	5.000	4.968	1140.05	0.0009	P	3.9	-0.6
4	☐	10.000	9.170	1917.48	0.0015	P	1.3	-8.3
5	☐	100.000	99.109	18035.92	0.0139	P	2.5	-0.9
6	☐	200.000	200.491	35576.93	0.0279	P	1.4	0.2

y = 1.3848E-004 * x + 1.8335E-004
R = 1.0000
DL = 0.5409 ppb
BEC = 1.324 ppb

Weight: <None>
Min Conc: <None>

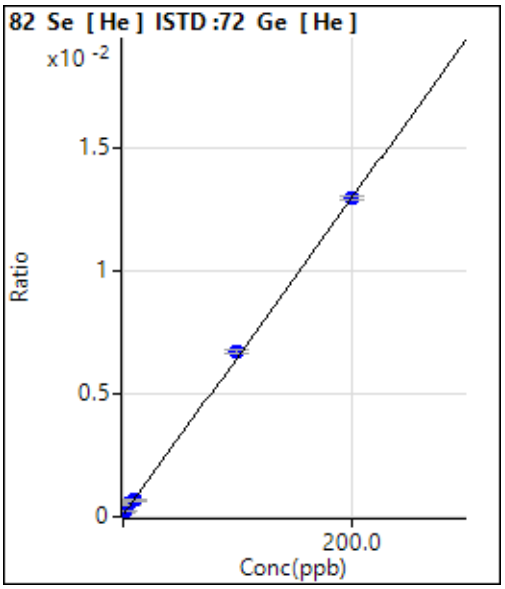
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	763.37	0.0002	P	10.9	
2	☐	2.000	2.031	1583.45	0.0004	P	9.0	1.5
3	☐	5.000	4.763	2700.32	0.0006	P	8.6	-4.7
4	☐	10.000	10.087	4864.30	0.0011	P	7.5	0.9
5	☐	100.000	100.443	40898.49	0.0096	P	0.4	0.4
6	☐	200.000	199.780	79455.63	0.0189	P	1.4	-0.1

y = 9.3512E-005 * x + 1.7422E-004
R = 1.0000
DL = 0.6071 ppb
BEC = 1.863 ppb

Weight: <None>
Min Conc: <None>

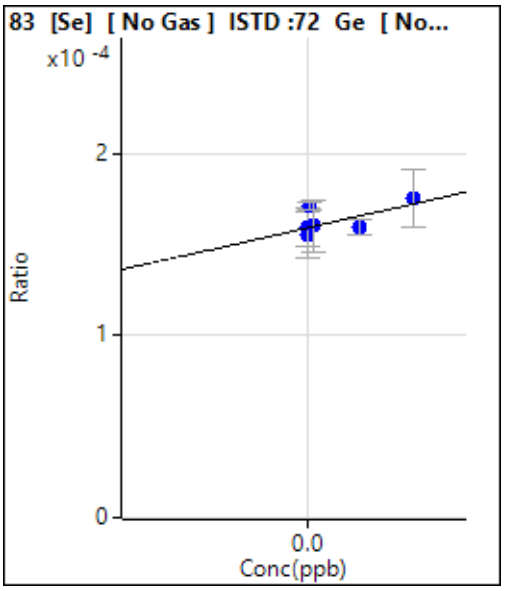


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0001	P	13.6	
2	☐	2.000	1.782	326.68	0.0002	P	10.0	-10.9
3	☐	5.000	5.797	666.70	0.0005	P	8.9	15.9
4	☐	10.000	8.437	896.71	0.0007	P	5.0	-15.6
5	☐	100.000	101.800	8699.58	0.0067	P	2.7	1.8
6	☐	200.000	199.160	16543.63	0.0130	P	1.6	-0.4

y = 6.4575E-005 * x + 1.3482E-004
R = 0.9999
DL = 0.8519 ppb
BEC = 2.088 ppb

Weight: <None>
Min Conc: <None>

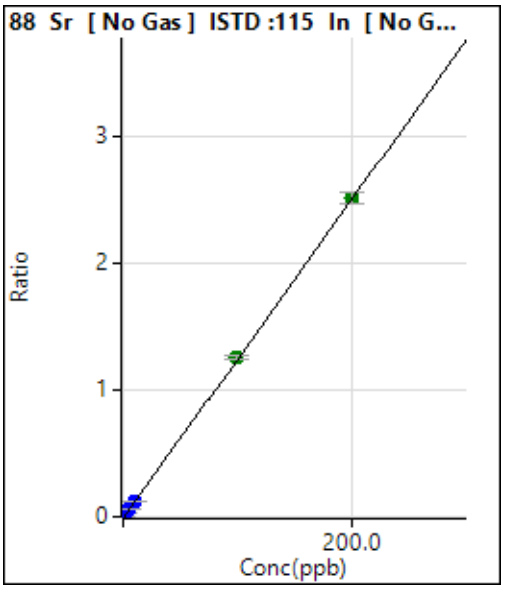
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	700.03	0.0002	P	13.1	
2	☐	2.000	-60.271	676.70	0.0002	P	15.9	-3113.6
3	☐	5.000	178.645	746.70	0.0002	P	2.4	3472.9
4	☐	10.000	14.147	700.04	0.0002	P	17.5	41.5
5	☐	100.000	4.280	683.36	0.0002	P	5.2	-95.7
6	☐	200.000	243.934	740.04	0.0002	P	18.3	22.0

y = 6.5579E-008 * x + 1.5957E-004
R = 0.6160
DL = 954.5 ppb
BEC = 2433 ppb

Weight: <None>
Min Conc: <None>

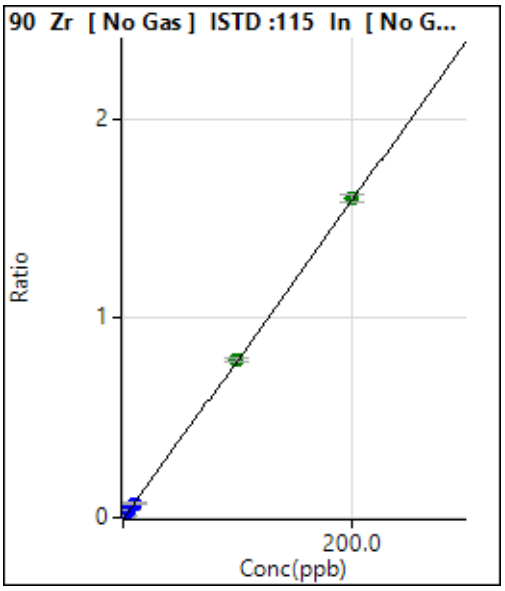


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3260.46	0.0007	P	7.3	
2	☐	2.000	1.960	119751.08	0.0253	P	2.2	-2.0
3	☐	5.000	4.907	294308.84	0.0623	P	1.2	-1.9
4	☐	10.000	9.580	574276.36	0.1210	P	2.7	-4.2
5	☐	100.000	99.945	5804252.21	1.2560	A	2.3	-0.1
6	☐	200.000	200.051	11520099.00	2.5133	A	3.8	0.0

y = 0.0126 * x + 6.8774E-004
R = 1.0000
DL = 0.01198 ppb
BEC = 0.05476 ppb

Weight: <None>
Min Conc: <None>

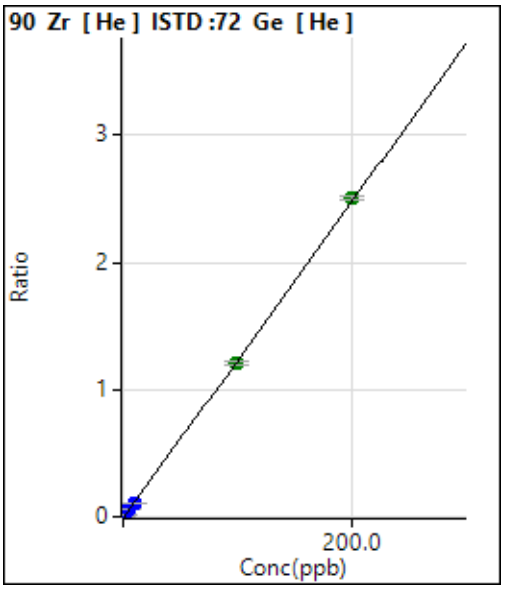
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1466.78	0.0003	P	10.7	
2	☐	2.000	1.662	64239.20	0.0136	P	1.7	-16.9
3	☐	5.000	4.428	168408.94	0.0357	P	1.9	-11.4
4	☐	10.000	8.999	342374.81	0.0721	P	2.1	-10.0
5	☐	100.000	98.894	3649659.84	0.7898	A	2.5	-1.1
6	☐	200.000	200.621	7343204.68	1.6018	A	2.9	0.3

y = 0.0080 * x + 3.0923E-004
R = 1.0000
DL = 0.0124 ppb
BEC = 0.03874 ppb

Weight: <None>
Min Conc: <None>

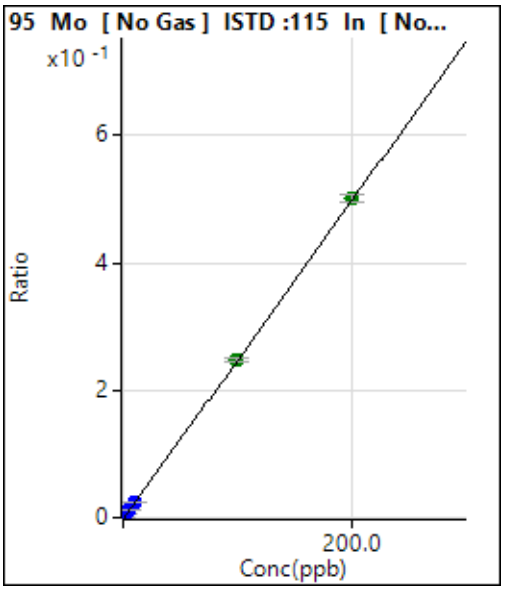


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1756.81	0.0013	P	13.3	
2	☐	2.000	1.651	28590.55	0.0219	P	2.8	-17.4
3	☐	5.000	4.304	71784.04	0.0549	P	3.7	-13.9
4	☐	10.000	8.738	145111.28	0.1100	P	2.1	-12.6
5	☐	100.000	97.192	1568937.94	1.2098	A	2.6	-2.8
6	☐	200.000	201.488	3190753.91	2.5066	A	1.2	0.7

y = 0.0124 * x + 0.0013
R = 0.9999
DL = 0.04308 ppb
BEC = 0.1078 ppb

Weight: <None>
Min Conc: <None>

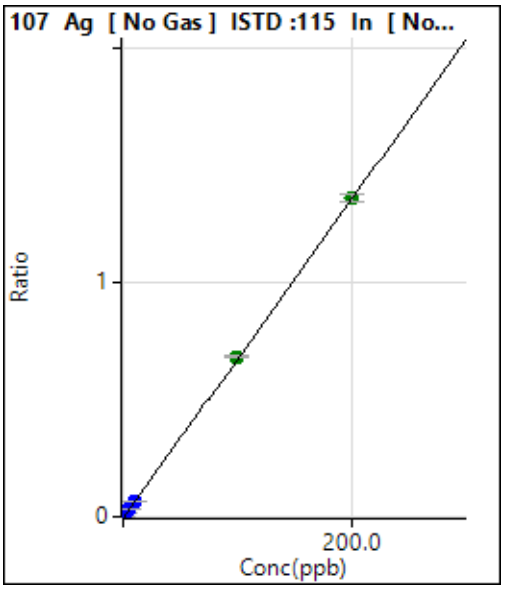
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0000	P	36.3	
2	☐	2.000	1.984	23634.37	0.0050	P	2.0	-0.8
3	☐	5.000	4.892	57897.82	0.0123	P	2.3	-2.2
4	☐	10.000	9.505	112871.37	0.0238	P	3.7	-5.0
5	☐	100.000	98.809	1141058.08	0.2469	A	2.3	-1.2
6	☐	200.000	200.623	2298088.87	0.5013	A	3.0	0.3

y = 0.0025 * x + 3.7288E-005
R = 1.0000
DL = 0.01627 ppb
BEC = 0.01492 ppb

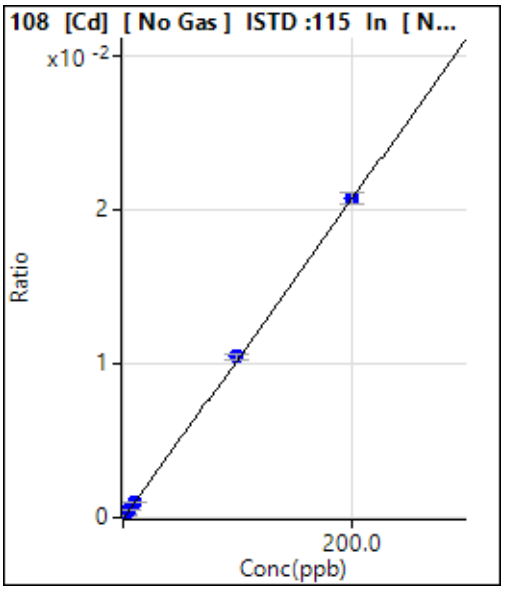
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2296.90	0.0005	P	6.0	
2	☐	2.000	1.994	66455.11	0.0140	P	1.9	-0.3
3	☐	5.000	5.037	163995.15	0.0347	P	1.6	0.7
4	☐	10.000	9.925	322478.65	0.0679	P	2.3	-0.7
5	☐	100.000	100.325	3153758.18	0.6824	A	1.8	0.3
6	☐	200.000	199.840	6229417.20	1.3588	A	2.6	-0.1

y = 0.0068 * x + 4.8435E-004
R = 1.0000
DL = 0.01281 ppb
BEC = 0.07126 ppb

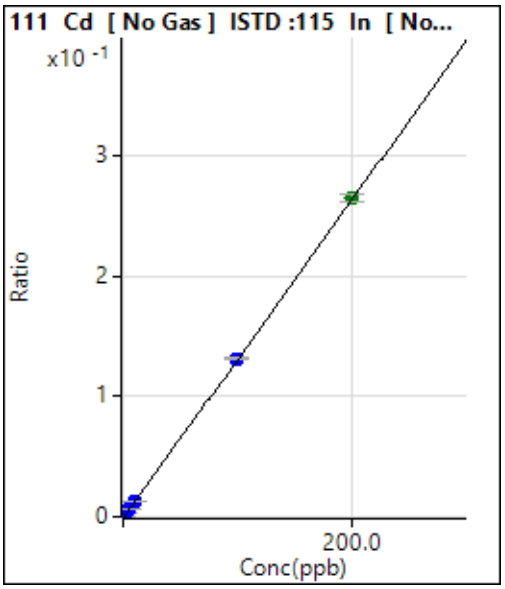
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	1.926	946.72	0.0002	P	18.1	-3.7
3	☐	5.000	5.198	2550.29	0.0005	P	6.4	4.0
4	☐	10.000	9.805	4837.64	0.0010	P	8.1	-2.0
5	☐	100.000	100.608	48307.86	0.0105	P	2.9	0.6
6	☐	200.000	199.702	95131.36	0.0208	P	3.0	-0.1

y = 1.0391E-004 * x + 0.0000E+000
R = 1.0000
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

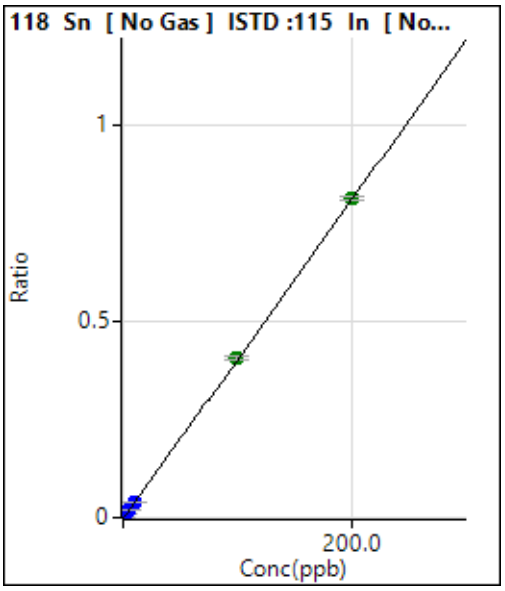


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26.67	0.0000	P	57.4	
2	☐	2.000	1.987	12451.22	0.0026	P	1.9	-0.6
3	☐	5.000	4.843	30241.42	0.0064	P	1.2	-3.1
4	☐	10.000	9.712	60916.14	0.0128	P	1.6	-2.9
5	☐	100.000	99.235	605816.20	0.1311	P	1.2	-0.8
6	☐	200.000	200.401	1213565.93	0.2647	A	2.4	0.2

y = 0.0013 * x + 5.6211E-006
R = 1.0000
DL = 0.00733 ppb
BEC = 0.004256 ppb

Weight: <None>
Min Conc: <None>

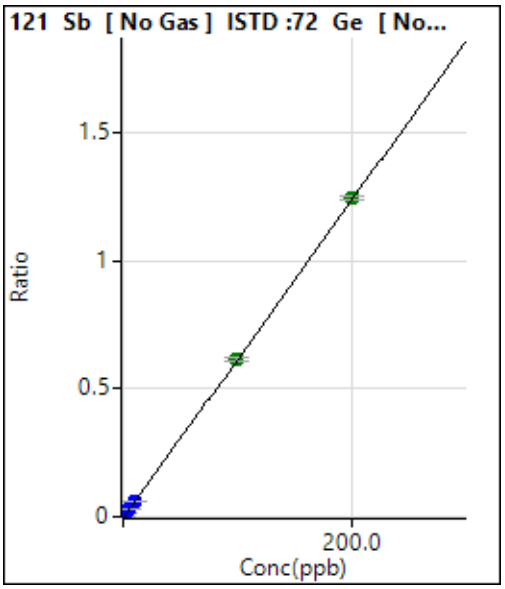
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5281.14	0.0011	P	0.4	
2	☐	2.000	1.948	42776.11	0.0090	P	3.4	-2.6
3	☐	5.000	4.882	99041.63	0.0210	P	1.1	-2.4
4	☐	10.000	9.745	193400.49	0.0408	P	2.7	-2.5
5	☐	100.000	100.095	1886645.18	0.4082	A	2.0	0.1
6	☐	200.000	199.968	3734205.05	0.8145	A	1.7	0.0

y = 0.0041 * x + 0.0011
R = 1.0000
DL = 0.00332 ppb
BEC = 0.2738 ppb

Weight: <None>
Min Conc: <None>

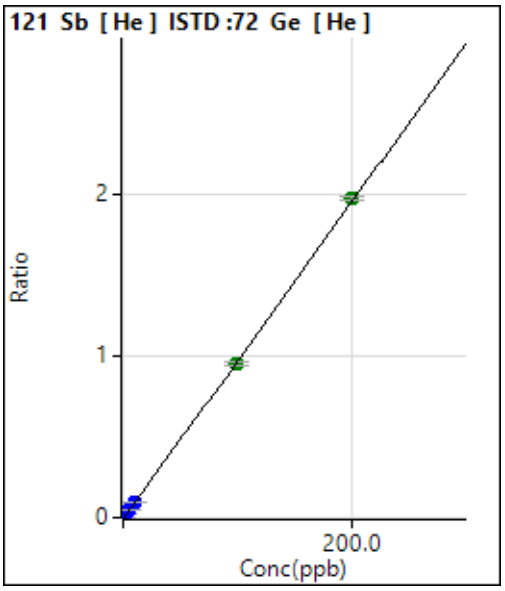


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	810.04	0.0002	P	6.7	
2	☐	2.000	2.026	55486.61	0.0128	P	1.2	1.3
3	☐	5.000	5.063	137717.32	0.0316	P	3.1	1.3
4	☐	10.000	9.625	260768.32	0.0599	P	2.8	-3.8
5	☐	100.000	99.090	2628426.99	0.6148	A	1.8	-0.9
6	☐	200.000	200.472	5240358.67	1.2437	A	1.8	0.2

y = 0.0062 * x + 1.8478E-004
R = 1.0000
DL = 0.006021 ppb
BEC = 0.02979 ppb

Weight: <None>
Min Conc: <None>

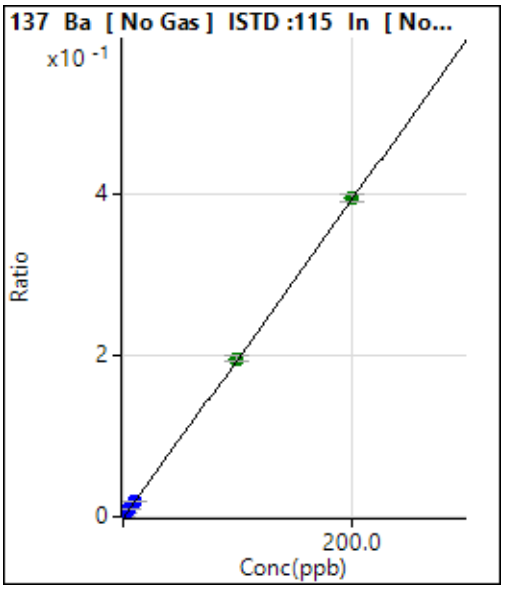
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	383.34	0.0003	P	12.0	
2	☐	2.000	1.982	25782.04	0.0197	P	5.8	-0.9
3	☐	5.000	4.835	62413.75	0.0477	P	2.9	-3.3
4	☐	10.000	9.288	120528.48	0.0914	P	3.4	-7.1
5	☐	100.000	97.363	1238337.09	0.9549	A	2.7	-2.6
6	☐	200.000	201.358	2513333.14	1.9745	A	0.9	0.7

y = 0.0098 * x + 2.9261E-004
R = 0.9999
DL = 0.0107 ppb
BEC = 0.02984 ppb

Weight: <None>
Min Conc: <None>

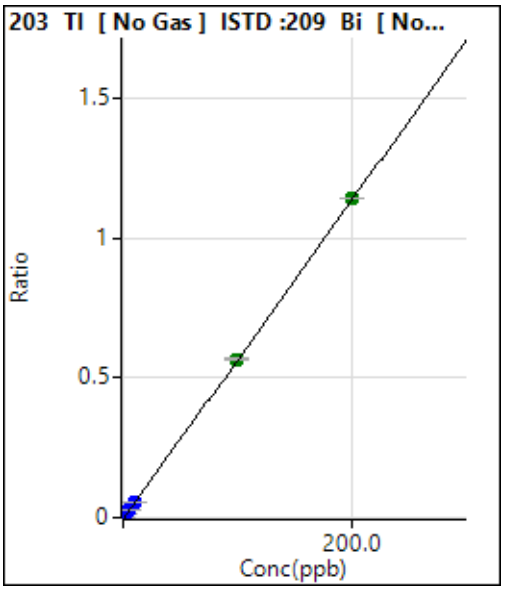


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	333.34	0.0001	P	9.9	
2	☐	2.000	1.947	18540.05	0.0039	P	3.0	-2.7
3	☐	5.000	4.953	46549.73	0.0099	P	2.7	-0.9
4	☐	10.000	9.655	90866.92	0.0191	P	2.9	-3.5
5	☐	100.000	99.487	908757.64	0.1967	A	2.7	-0.5
6	☐	200.000	200.276	1814616.38	0.3958	A	2.1	0.1

y = 0.0020 * x + 7.0265E-005
R = 1.0000
DL = 0.01052 ppb
BEC = 0.03556 ppb

Weight: <None>
Min Conc: <None>

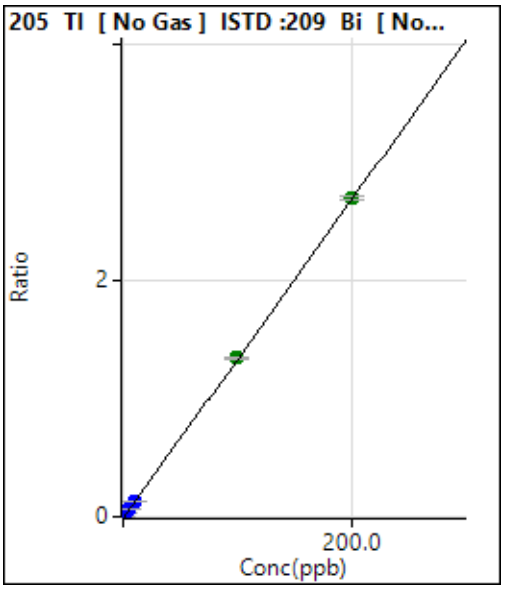
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	350.01	0.0001	P	17.9	
2	☐	2.000	1.918	43090.77	0.0110	P	0.5	-4.1
3	☐	5.000	4.880	109658.86	0.0279	P	3.4	-2.4
4	☐	10.000	9.614	215933.32	0.0549	P	1.9	-3.9
5	☐	100.000	99.462	2207395.07	0.5676	A	1.1	-0.5
6	☐	200.000	200.292	4337055.25	1.1429	A	0.5	0.1

y = 0.0057 * x + 9.0328E-005
R = 1.0000
DL = 0.008496 ppb
BEC = 0.01583 ppb

Weight: <None>
Min Conc: <None>

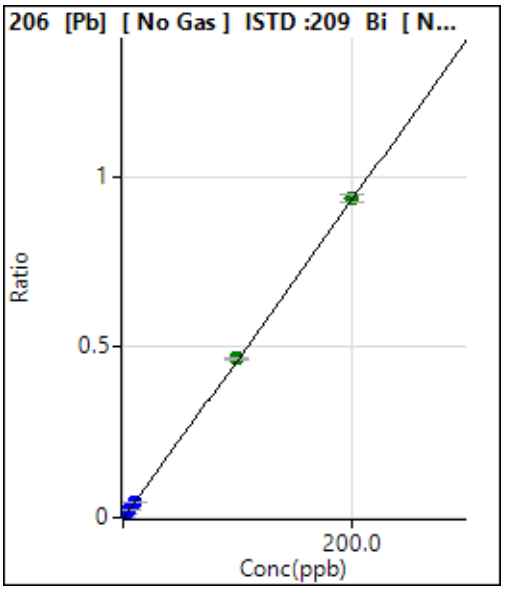


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	873.38	0.0002	P	7.1	
2	☐	2.000	1.907	101568.99	0.0260	P	0.6	-4.6
3	☐	5.000	4.882	259934.32	0.0662	P	2.3	-2.4
4	☐	10.000	9.722	517267.84	0.1316	P	1.2	-2.8
5	☐	100.000	99.868	5250326.28	1.3501	A	0.9	-0.1
6	☐	200.000	200.084	10262680.05	2.7046	A	1.4	0.0

y = 0.0135 * x + 2.2514E-004
R = 1.0000
DL = 0.003542 ppb
BEC = 0.01666 ppb

Weight: <None>
Min Conc: <None>

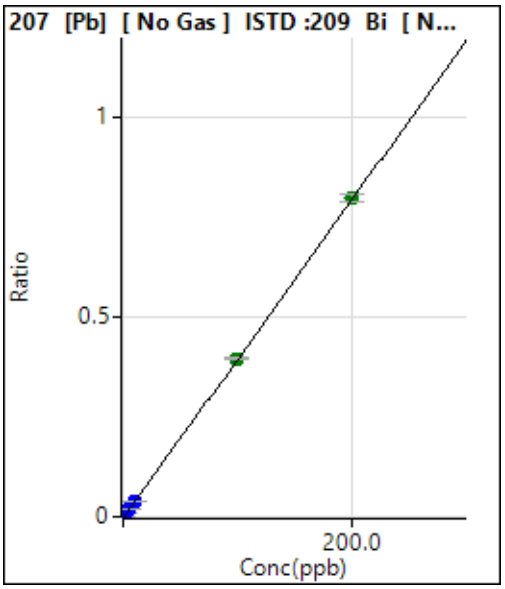
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1036.73	0.0003	P	13.4	
2	☐	2.000	2.009	37683.82	0.0096	P	1.4	0.4
3	☐	5.000	4.922	91307.25	0.0233	P	2.7	-1.6
4	☐	10.000	9.790	180745.83	0.0460	P	2.2	-2.1
5	☐	100.000	99.601	1810292.42	0.4655	A	1.0	-0.4
6	☐	200.000	200.212	3549382.34	0.9354	A	2.0	0.1

y = 0.0047 * x + 2.6727E-004
R = 1.0000
DL = 0.023 ppb
BEC = 0.05722 ppb

Weight: <None>
Min Conc: <None>

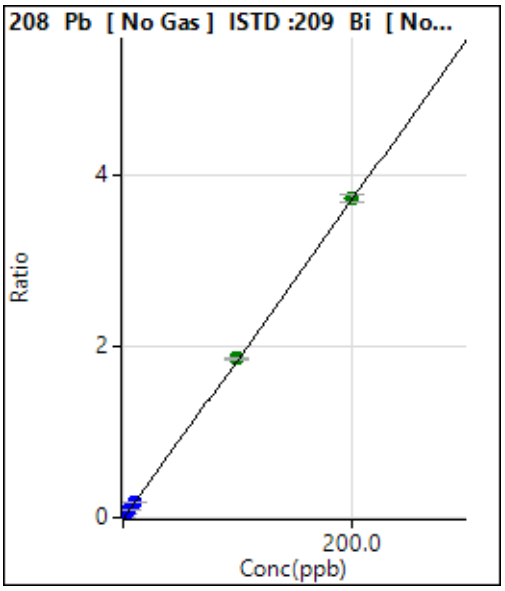


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1043.40	0.0003	P	8.0	
2	☐	2.000	1.960	31600.28	0.0081	P	3.5	-2.0
3	☐	5.000	4.968	78890.64	0.0201	P	2.6	-0.6
4	☐	10.000	9.752	154006.69	0.0392	P	2.2	-2.5
5	☐	100.000	99.307	1542428.47	0.3966	A	1.1	-0.7
6	☐	200.000	200.360	3035245.37	0.7999	A	2.6	0.2

y = 0.0040 * x + 2.6894E-004
R = 1.0000
DL = 0.01621 ppb
BEC = 0.06738 ppb

Weight: <None>
Min Conc: <None>

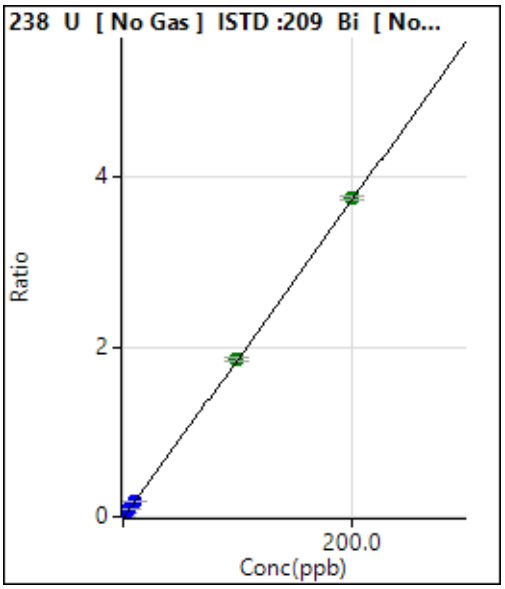
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4273.70	0.0011	P	11.2	
2	☐	2.000	1.986	148352.83	0.0380	P	0.5	-0.7
3	☐	5.000	4.951	365304.03	0.0931	P	2.5	-1.0
4	☐	10.000	9.772	717640.66	0.1826	P	1.9	-2.3
5	☐	100.000	99.541	7194678.54	1.8499	A	0.9	-0.5
6	☐	200.000	200.242	14116509.89	3.7203	A	2.1	0.1

y = 0.0186 * x + 0.0011
R = 1.0000
DL = 0.01985 ppb
BEC = 0.0593 ppb

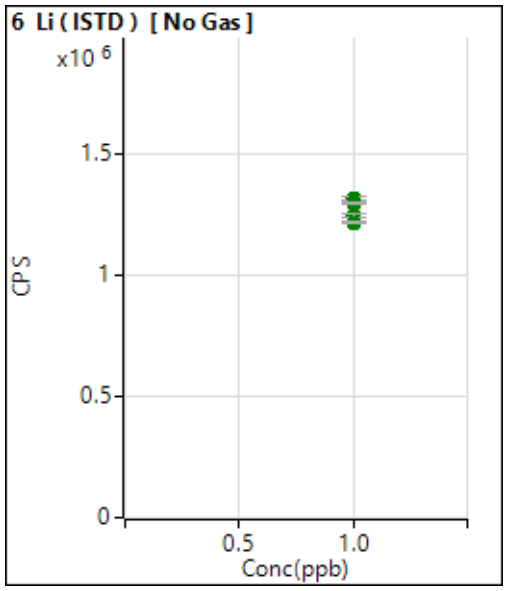
Weight: <None>
Min Conc: <None>



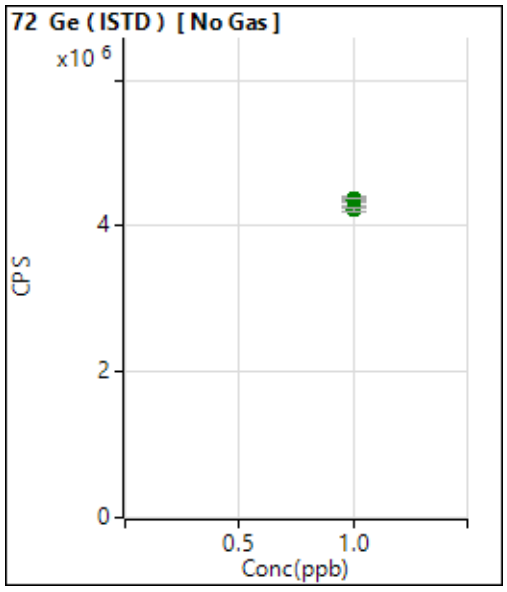
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	660.03	0.0002	P	6.2	
2	☐	2.000	1.891	139001.11	0.0356	P	1.5	-5.4
3	☐	5.000	4.684	345048.00	0.0879	P	1.7	-6.3
4	☐	10.000	9.358	689339.86	0.1754	P	1.9	-6.4
5	☐	100.000	98.865	7201369.68	1.8515	A	1.9	-1.1
6	☐	200.000	200.609	14254858.12	3.7567	A	1.4	0.3

y = 0.0187 * x + 1.7020E-004
R = 1.0000
DL = 0.001693 ppb
BEC = 0.009089 ppb

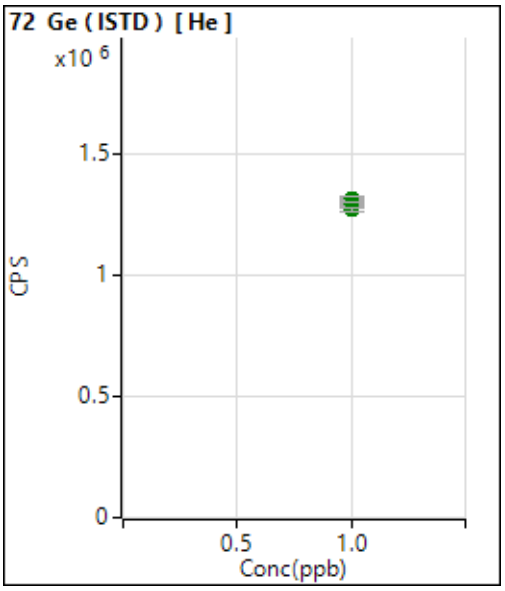
Weight: <None>
Min Conc: <None>



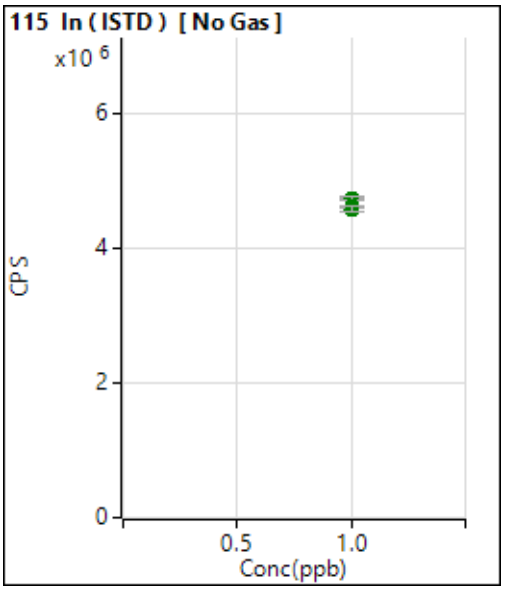
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1318920.00		A	0.9	
2	☐	1.000		1301259.53		A	0.7	
3	☐	1.000		1299874.83		A	0.2	
4	☐	1.000		1296219.91		A	0.5	
5	☐	1.000		1246482.60		A	1.3	
6	☐	1.000		1216568.14		A	0.5	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4382506.71		A	1.5	
2	☐	1.000		4350165.56		A	0.6	
3	☐	1.000		4359608.37		A	0.7	
4	☐	1.000		4355207.96		A	1.3	
5	☐	1.000		4275006.18		A	0.1	
6	☐	1.000		4214142.02		A	1.4	

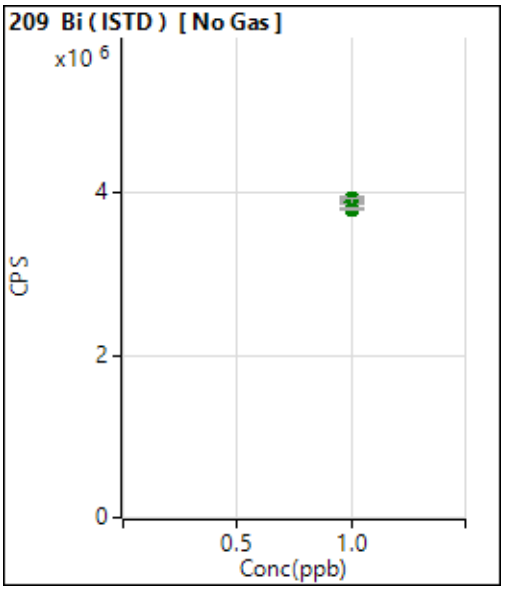


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1309647.74		A	0.7	
2	☐	1.000		1307344.82		A	0.4	
3	☐	1.000		1309023.94		A	2.0	
4	☐	1.000		1319654.90		A	1.3	
5	☐	1.000		1297008.65		A	0.9	
6	☐	1.000		1272893.44		A	1.0	



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		4742062.03		A	0.7	
2	☐	1.000		4733135.13		A	0.4	
3	☐	1.000		4722922.10		A	0.6	
4	☐	1.000		4746367.22		A	0.8	
5	☐	1.000		4621745.75		A	1.0	
6	☐	1.000		4585729.81		A	1.9	

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		3878293.90		A	0.8	
2	☐	1.000		3905682.23		A	0.4	
3	☐	1.000		3926226.61		A	0.9	
4	☐	1.000		3930032.34		A	1.2	
5	☐	1.000		3889251.09		A	1.5	
6	☐	1.000		3794728.80		A	0.8	

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T10:54:17-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	7	1	No Gas	79004	0.00
Be	9	1	No Gas	50	52.92
V	51	2	He	3530	0.13
Cr	52	2	He	13600	0.01
Fe	56	2	He	18743	0.02
Se	78	2	He	240	5.42
As	75	2	He	382	1.32
Ca	44	2	He	2154	0.71
Na	23	2	He	140133	0.00
Mg	24	2	He	687	1.24
K	39	2	He	156552	0.00
Mn	55	2	He	727	0.79
Co	59	2	He	107	13.43
Ni	60	2	He	543	0.20
Cu	63	2	He	1760	0.43
Zn	66	2	He	1560	0.21
Al	27	2	He	2454	0.11
B	11	1	No Gas	21122	0.00
Al	27	1	No Gas	92044	0.00
Si	28	1	No Gas	1015381	0.00
Ag	107	1	No Gas	2297	0.27
Cd	111	1	No Gas	27	214.81
Sr	88	1	No Gas	3260	0.21
Mo	95	1	No Gas	177	20.35
Sn	118	1	No Gas	5281	0.01
Sb	121	1	No Gas	810	0.93
Ba	137	1	No Gas	333	3.16
Tl	205	1	No Gas	873	0.87
Tl	203	1	No Gas	350	4.90
Pb	208	1	No Gas	4274	0.28
U	238	1	No Gas	660	0.92
Ca	43	2	He	40	62.50
Sb	121	2	He	383	3.22
Ti	47	2	He	63	188.75
Cu	63	1	No Gas	3647	0.02

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD

Calibration Blank Report

Li	6	1	No Gas	1318920	0.94
Ge	72	2	He	1309648	0.68
Ge	72	1	No Gas	4382507	1.45
In	115	1	No Gas	4742062	0.72

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Bi	209	1	No Gas	3878294	0.78

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T10:57:00-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	10582	0.01
V	51	2	He	24137	0.01
Cr	52	2	He	37484	0.00
Fe	56	2	He	2255652	0.00
Se	78	2	He	541	0.91
As	75	2	He	4795	0.08
Ca	44	2	He	14698	0.04
Na	23	2	He	475448	0.00
Mg	24	2	He	210951	0.00
K	39	2	He	403030	0.00
Mn	55	2	He	18132	0.02
Co	59	2	He	38146	0.00
Ni	60	2	He	10057	0.05
Cu	63	2	He	27782	0.01
Zn	66	2	He	6492	0.08
Al	27	2	He	3897	0.11
B	11	1	No Gas	53365	0.00
Al	27	1	No Gas	139598	0.00
Si	28	1	No Gas	1085201	0.00
Ag	107	1	No Gas	66455	0.00
Cd	111	1	No Gas	12451	0.01
Sr	88	1	No Gas	119751	0.00
Mo	95	1	No Gas	23634	0.01
Sn	118	1	No Gas	42776	0.01
Sb	121	1	No Gas	55487	0.00
Ba	137	1	No Gas	18540	0.02
Tl	205	1	No Gas	101569	0.00
Tl	203	1	No Gas	43091	0.00
Pb	208	1	No Gas	148353	0.00
U	238	1	No Gas	139001	0.00
Ca	43	2	He	860	0.36
Sb	121	2	He	25782	0.02
Cu	63	1	No Gas	55395	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1301260	0.73	1318920	98.66	70	120	
Ge	72	2	He	1307345	0.42	1309648	99.82	70	120	
Ge	72	1	No Gas	4350166	0.65	4382507	99.26	70	120	

Calibration Standard Report

In	115	1	No Gas	4733135	0.39	4742062	99.81	70	120	
Bi	209	1	No Gas	3905682	0.38	3878294	100.71	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T10:59:40-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	26780	0.01
V	51	2	He	54784	0.00
Cr	52	2	He	73136	0.00
Fe	56	2	He	5643622	0.00
Se	78	2	He	1140	0.17
As	75	2	He	11261	0.04
Ca	44	2	He	34206	0.00
Na	23	2	He	979550	0.00
Mg	24	2	He	524830	0.00
K	39	2	He	772778	0.00
Mn	55	2	He	44833	0.00
Co	59	2	He	93855	0.00
Ni	60	2	He	24479	0.01
Cu	63	2	He	67546	0.00
Zn	66	2	He	14181	0.02
Al	27	2	He	5838	0.08
B	11	1	No Gas	102413	0.00
Al	27	1	No Gas	217397	0.00
Si	28	1	No Gas	1228470	0.00
Ag	107	1	No Gas	163995	0.00
Cd	111	1	No Gas	30241	0.00
Sr	88	1	No Gas	294309	0.00
Mo	95	1	No Gas	57898	0.00
Sn	118	1	No Gas	99042	0.00
Sb	121	1	No Gas	137717	0.00
Ba	137	1	No Gas	46550	0.00
Tl	205	1	No Gas	259934	0.00
Tl	203	1	No Gas	109659	0.00
Pb	208	1	No Gas	365304	0.00
U	238	1	No Gas	345048	0.00
Ca	43	2	He	1883	0.39
Sb	121	2	He	62414	0.00
Cu	63	1	No Gas	133527	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1299875	0.18	1318920	98.56	70	120	
Ge	72	2	He	1309024	1.98	1309648	99.95	70	120	
Ge	72	1	No Gas	4359608	0.73	4382507	99.48	70	120	

Calibration Standard Report

In	115	1	No Gas	4722922	0.65	4742062	99.60	70	120	
Bi	209	1	No Gas	3926227	0.94	3878294	101.24	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/100
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:02:21-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	52779	0.01
V	51	2	He	105398	0.00
Cr	52	2	He	128849	0.00
Fe	56	2	He	11033917	0.00
Se	78	2	He	1917	0.05
As	75	2	He	21673	0.01
Ca	44	2	He	66777	0.00
Na	23	2	He	1776734	0.00
Mg	24	2	He	1028068	0.00
K	39	2	He	1378083	0.00
Mn	55	2	He	86577	0.00
Co	59	2	He	181917	0.00
Ni	60	2	He	48877	0.01
Cu	63	2	He	128033	0.00
Zn	66	2	He	27475	0.01
Al	27	2	He	9247	0.06
B	11	1	No Gas	182699	0.00
Al	27	1	No Gas	337837	0.00
Si	28	1	No Gas	1463876	0.00
Ag	107	1	No Gas	322479	0.00
Cd	111	1	No Gas	60916	0.00
Sr	88	1	No Gas	574276	0.00
Mo	95	1	No Gas	112871	0.00
Sn	118	1	No Gas	193400	0.00
Sb	121	1	No Gas	260768	0.00
Ba	137	1	No Gas	90867	0.00
Tl	205	1	No Gas	517268	0.00
Tl	203	1	No Gas	215933	0.00
Pb	208	1	No Gas	717641	0.00
U	238	1	No Gas	689340	0.00
Ca	43	2	He	3921	0.30
Sb	121	2	He	120528	0.00
Cu	63	1	No Gas	256911	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1296220	0.55	1318920	98.28	70	120	
Ge	72	2	He	1319655	1.28	1309648	100.76	70	120	
Ge	72	1	No Gas	4355208	1.29	4382507	99.38	70	120	

Calibration Standard Report

In	115	1	No Gas	4746367	0.84	4742062	100.09	70	120	
Bi	209	1	No Gas	3930032	1.17	3878294	101.33	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:05:00-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	503381	0.00
V	51	2	He	1034922	0.00
Cr	52	2	He	1171940	0.00
Fe	56	2	He	113401448	0.00
Se	78	2	He	18036	0.01
As	75	2	He	218610	0.00
Ca	44	2	He	651031	0.00
Na	23	2	He	17068478	0.00
Mg	24	2	He	10589005	0.00
K	39	2	He	12547030	0.00
Mn	55	2	He	877731	0.00
Co	59	2	He	1859126	0.00
Ni	60	2	He	483720	0.00
Cu	63	2	He	1286777	0.00
Zn	66	2	He	262092	0.00
Al	27	2	He	68798	0.01
B	11	1	No Gas	1666055	0.00
Al	27	1	No Gas	2490340	0.00
Si	28	1	No Gas	5956593	0.00
Ag	107	1	No Gas	3153758	0.00
Cd	111	1	No Gas	605816	0.00
Sr	88	1	No Gas	5804252	0.00
Mo	95	1	No Gas	1141058	0.00
Sn	118	1	No Gas	1886645	0.00
Sb	121	1	No Gas	2628427	0.00
Ba	137	1	No Gas	908758	0.00
Tl	205	1	No Gas	5250326	0.00
Tl	203	1	No Gas	2207395	0.00
Pb	208	1	No Gas	7194679	0.00
U	238	1	No Gas	7201370	0.00
Ca	43	2	He	38601	0.01
Sb	121	2	He	1238337	0.00
Cu	63	1	No Gas	2463851	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1246483	1.29	1318920	94.51	70	120	
Ge	72	2	He	1297009	0.94	1309648	99.03	70	120	
Ge	72	1	No Gas	4275006	0.12	4382507	97.55	70	120	

Calibration Standard Report

In	115	1	No Gas	4621746	0.97	4742062	97.46	70	120	
Bi	209	1	No Gas	3889251	1.53	3878294	100.28	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:07:41-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	No Gas	1034973	0.00
V	51	2	He	2103225	0.00
Cr	52	2	He	2349508	0.00
Fe	56	2	He	224603710	0.00
Se	78	2	He	35577	0.01
As	75	2	He	431893	0.00
Ca	44	2	He	1324169	0.00
Na	23	2	He	33416076	0.00
Mg	24	2	He	20817141	0.00
K	39	2	He	24899699	0.00
Mn	55	2	He	1742799	0.00
Co	59	2	He	3709878	0.00
Ni	60	2	He	951408	0.00
Cu	63	2	He	2583324	0.00
Zn	66	2	He	515374	0.00
Al	27	2	He	133578	0.00
B	11	1	No Gas	3287218	0.00
Al	27	1	No Gas	4840908	0.00
Si	28	1	No Gas	10856764	0.00
Ag	107	1	No Gas	6229417	0.00
Cd	111	1	No Gas	1213566	0.00
Sr	88	1	No Gas	11520099	0.00
Mo	95	1	No Gas	2298089	0.00
Sn	118	1	No Gas	3734205	0.00
Sb	121	1	No Gas	5240359	0.00
Ba	137	1	No Gas	1814616	0.00
Tl	205	1	No Gas	10262680	0.00
Tl	203	1	No Gas	4337055	0.00
Pb	208	1	No Gas	14116510	0.00
U	238	1	No Gas	14254858	0.00
Ca	43	2	He	76647	0.00
Sb	121	2	He	2513333	0.00
Cu	63	1	No Gas	4807988	0.00

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1216568	0.51	1318920	92.24	70	120	
Ge	72	2	He	1272893	1.04	1309648	97.19	70	120	
Ge	72	1	No Gas	4214142	1.40	4382507	96.16	70	120	

Calibration Standard Report

In	115	1	No Gas	4585730	1.85	4742062	96.70	70	120	
Bi	209	1	No Gas	3794729	0.76	3878294	97.85	70	120	

Sample Report

Sample Table

Sample Name	LLICV2
Data File Name	019LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:17:36-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.058	2.058	2.25	114403	0.00	2	
Be	9	1	No Gas	2.062	2.062	3.78	10681	0.02	2	
V	51	2	He	1.989	1.989	3.72	24941	0.01	2	
Cr	52	2	He	2.048	2.048	4.13	38210	0.01	2	
Fe	56	2	He	204.533	204.533	2.06	2385163	0.01	200	
Se	78	2	He	1.999	1.999	7.82	605	0.33	2	
As	75	2	He	2.123	2.123	8.94	5103	0.04	2	
Ca	44	2	He	195.257	195.257	5.01	15382	1.27	200	
Na	23	2	He	206.460	206.460	3.35	495096	0.04	200	
Mg	24	2	He	209.418	209.418	2.79	225588	0.09	200	
K	39	2	He	200.675	200.675	3.66	412480	0.05	200	
Mn	55	2	He	2.060	2.060	2.73	19210	0.01	2	
Co	59	2	He	2.092	2.092	3.97	40032	0.01	2	
Ni	60	2	He	2.091	2.091	4.98	10801	0.02	2	
Cu	63	2	He	2.084	2.084	5.00	29399	0.01	2	
Zn	66	2	He	1.945	1.945	3.64	6718	0.03	2	
Al	27	2	He	1.788	1.788	17.50	3671	0.05	2	
B	11	1	No Gas	11.014	11.014	3.66	57573	0.02	10	
Al	27	1	No Gas	2.018	2.018	4.23	140961	0.00	2	
Si	28	1	No Gas	4.788	4.788	26.45	1057441	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	2.046	2.046	1.56	68529	0.00	2	
Cd	111	1	No Gas	1.999	1.999	2.59	12597	0.02	2	
Sr	88	1	No Gas	1.988	1.988	3.10	122165	0.00	2	
Mo	95	1	No Gas	2.011	2.011	1.65	24099	0.01	2	
Sn	118	1	No Gas	2.047	2.047	1.27	44953	0.00	2	
Sb	121	1	No Gas	2.148	2.148	1.94	58817	0.00	2	
Ba	137	1	No Gas	1.989	1.989	0.32	19047	0.01	2	
Tl	205	1	No Gas	1.951	1.951	0.90	104556	0.00	2	
Tl	203	1	No Gas	1.940	1.940	3.45	43874	0.00	2	
Pb	208	1	No Gas	2.031	2.031	2.26	152606	0.00	2	
U	238	1	No Gas	1.933	1.933	1.23	142982	0.00	2	
Ca	43	2	He	209.439	209.439	8.29	867	24.16	200	
Sb	121	2	He	2.132	2.132	4.67	27856	0.01	2	
Ti	47	2	He	2.185	2.185	10.56	943	0.23	200	
Cu	63	1	No Gas	2.130	2.130	2.51	56590	0.00	2	
Se	82	1	No Gas	2.132	2.132	12.86	1627	0.13	2	
Zr	90	1	No Gas	1.697	1.697	2.22	65988	0.00	2	
Zr	90	2	He	1.761	1.761	5.13	30532	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1276931	1.04	1318920	96.82	70	120	
Ge	72	2	He	1314209	0.91	1309648	100.35	70	120	
Ge	72	1	No Gas	4354208	0.51	4382507	99.35	70	120	
In	115	1	No Gas	4761329	0.68	4742062	100.41	70	120	
Bi	209	1	No Gas	3931158	1.25	3878294	101.36	70	120	

Sample Report

Sample Table

Sample Name	LLICV5
Data File Name	020LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:20:00-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.976	4.976	1.30	168373	0.00	5	
Be	9	1	No Gas	5.277	5.277	0.71	27303	0.02	5	
V	51	2	He	4.979	4.979	1.45	57379	0.01	5	
Cr	52	2	He	5.124	5.124	2.12	75455	0.01	5	
Fe	56	2	He	507.890	507.890	1.58	5922687	0.01	500	
Se	78	2	He	4.872	4.872	7.84	1133	0.43	5	
As	75	2	He	5.006	5.006	2.28	11572	0.04	5	
Ca	44	2	He	500.539	500.539	2.40	36231	1.38	500	
Na	23	2	He	508.344	508.344	2.11	1018236	0.05	500	
Mg	24	2	He	508.356	508.356	2.01	549230	0.09	500	
K	39	2	He	502.060	502.060	1.82	799840	0.06	500	
Mn	55	2	He	5.014	5.014	1.06	45920	0.01	5	
Co	59	2	He	5.134	5.134	3.41	98538	0.01	5	
Ni	60	2	He	5.168	5.168	4.68	26018	0.02	5	
Cu	63	2	He	5.194	5.194	1.89	70990	0.01	5	
Zn	66	2	He	5.115	5.115	3.91	15189	0.03	5	
Al	27	2	He	5.231	5.231	11.20	6028	0.09	5	
B	11	1	No Gas	25.294	25.294	2.05	105846	0.02	25	
Al	27	1	No Gas	5.288	5.288	2.98	221715	0.00	5	
Si	28	1	No Gas	21.431	21.431	11.26	1229967	0.00	25	
Ag	107	1	No Gas	5.098	5.098	1.78	167170	0.00	5	
Cd	111	1	No Gas	5.092	5.092	5.30	32028	0.02	5	
Sr	88	1	No Gas	4.990	4.990	2.90	301449	0.00	5	
Mo	95	1	No Gas	4.982	4.982	0.49	59405	0.01	5	
Sn	118	1	No Gas	5.035	5.035	1.57	102732	0.00	5	
Sb	121	1	No Gas	5.213	5.213	2.57	141933	0.00	5	
Ba	137	1	No Gas	5.058	5.058	1.07	47885	0.01	5	
Tl	205	1	No Gas	4.972	4.972	1.15	263975	0.00	5	
Tl	203	1	No Gas	5.098	5.098	2.48	114229	0.00	5	
Pb	208	1	No Gas	5.061	5.061	0.43	372345	0.00	5	
U	238	1	No Gas	4.847	4.847	2.00	355969	0.00	5	
Ca	43	2	He	555.922	555.922	5.97	2244	24.78	500	
Sb	121	2	He	5.115	5.115	3.42	66594	0.01	5	
Ti	47	2	He	4.644	4.644	6.88	1944	0.24	5	
Cu	63	1	No Gas	5.229	5.229	1.76	134002	0.00	5	
Se	82	1	No Gas	4.612	4.612	5.88	2644	0.17	5	
Zr	90	1	No Gas	4.483	4.483	1.10	171753	0.00	5	
Zr	90	2	He	4.577	4.577	0.33	76902	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1278766	0.71	1318920	96.96	70	120	

Sample Report

Ge	72	2	He	1320213	0.34	1309648	100.81	70	120	
Ge	72	1	No Gas	4365053	0.98	4382507	99.60	70	120	
In	115	1	No Gas	4758272	0.78	4742062	100.34	70	120	
Bi	209	1	No Gas	3915078	0.97	3878294	100.95	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	022_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:24:48-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	-0.099	-66.2	77106	1.5	0.5	
Be	9	1	No Gas	0.001	202.4	55	18.2	0.5	
V	51	2	He	-0.040	-17.5	3161	1.9	2.5	
Cr	52	2	He	-0.053	-78.7	13197	2.9	2.5	
Fe	56	2	He	2.205	0.2	44980	1.3	100	
Se	78	2	He	-0.096	-162.1	227	11.9	1	
As	75	2	He	0.004	522.0	398	10.6	2.5	
Ca	44	2	He	3.621	79.1	2440	7.4	100	
Na	23	2	He	5.376	13.6	152067	0.3	100	
Mg	24	2	He	1.048	10.7	1840	5.4	100	
K	39	2	He	-2.622	-78.9	156013	0.5	100	
Mn	55	2	He	0.070	15.2	1377	8.1	2.5	
Co	59	2	He	0.002	250.6	140	55.8	2.5	
Ni	60	2	He	0.074	34.0	920	13.9	2.5	
Cu	63	2	He	0.041	47.5	2344	10.7	1	
Zn	66	2	He	0.485	12.0	2894	6.4	2.5	
Al	27	2	He	1.667	19.6	3644	6.9	5	
B	11	1	No Gas	0.547	34.0	23024	2.9	0.5	ICB Main CR1 Failed
Al	27	1	No Gas	1.775	9.2	135291	2.9	5	
Si	28	1	No Gas	6.806	4.8	1080426	0.3	10	
Ag	107	1	No Gas	-0.026	-4.6	1453	3.1	2.5	
Cd	111	1	No Gas	-0.002	-205.0	16	135.0	1	
Sr	88	1	No Gas	0.028	10.8	4898	3.9	2.5	
Mo	95	1	No Gas	0.012	25.4	317	12.0	2.5	
Sn	118	1	No Gas	0.081	27.5	6832	5.7	5	
Sb	121	1	No Gas	0.021	40.2	1373	16.7	2.5	
Ba	137	1	No Gas	0.188	8.2	2094	6.2	2.5	
Tl	205	1	No Gas	-0.005	-2.9	607	1.0	1	
Tl	203	1	No Gas	-0.003	-160.9	283	41.4	1	
Pb	208	1	No Gas	-0.009	-34.6	3637	6.4	2.5	
U	238	1	No Gas	-0.001	-43.0	580	6.0	2.5	
Ca	43	2	He	13.050	109.9	93	62.8	100	
Sb	121	2	He	0.019	37.4	640	13.6	2.5	
Ti	47	2	He	-0.110	-22.2	20	50.0	2.5	
Se	82	1	No Gas	-0.148	-124.5	700	10.8	1	
Zr	90	1	No Gas	0.047	3.7	3250	2.3	2.5	
Zr	90	2	He	0.031	4.6	2300	0.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1318585	0.14	1318920	99.97	70	120	
Ge	72	2	He	1333745	1.18	1309648	101.84	70	120	
Ge	72	1	No Gas	4363842	0.22	4382507	99.57	70	120	
In	115	1	No Gas	4731635	0.71	4742062	99.78	70	120	

Initial Calibration Blank (ICB) Report

Bi	209	1	No Gas	3925283	0.75	3878294	101.21	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	023_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:27:12-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	99.789	2.234	1897863	1.33	100	99.8	90	110	
Be	9	1	No Gas	103.229	3.045	527779	2.33	100	103.2	90	110	
V	51	2	He	101.031	1.879	1082426	2.16	100	101.0	90	110	
Cr	52	2	He	102.140	1.161	1229449	1.39	100	102.1	90	110	
Fe	56	2	He	10205.548	0.733	117211645	0.68	10000	102.1	90	110	
Se	78	2	He	101.983	0.926	18659	1.20	100	102.0	90	110	
As	75	2	He	101.428	1.428	224256	1.46	100	101.4	90	110	
Ca	44	2	He	10240.364	1.606	690546	1.86	10000	102.4	90	110	
Na	23	2	He	10265.657	0.674	17634895	0.68	10000	102.7	90	110	
Mg	24	2	He	10301.883	1.407	10982232	1.54	10000	103.0	90	110	
K	39	2	He	10228.950	1.048	13078148	1.10	10000	102.3	90	110	
Mn	55	2	He	102.345	0.910	911842	1.02	100	102.3	90	110	
Co	59	2	He	102.566	1.264	1942856	1.41	100	102.6	90	110	
Ni	60	2	He	102.672	1.360	500413	1.48	100	102.7	90	110	
Cu	63	2	He	102.602	0.378	1352352	0.67	100	102.6	90	110	
Zn	66	2	He	102.408	1.242	270862	1.28	100	102.4	90	110	
Al	27	2	He	103.112	2.082	71649	2.18	100	103.1	90	110	
B	11	1	No Gas	499.015	2.878	1687590	2.06	500	99.8	90	110	
Al	27	1	No Gas	102.063	1.870	2565103	1.85	100	102.1	90	110	
Si	28	1	No Gas	510.627	2.611	6138355	2.27	500	102.1	90	110	
Ag	107	1	No Gas	101.855	1.249	3212144	1.97	100	101.9	90	110	
Cd	111	1	No Gas	100.256	2.074	614034	2.79	100	100.3	90	110	
Sr	88	1	No Gas	101.574	1.168	5917970	1.85	100	101.6	90	110	
Mo	95	1	No Gas	100.196	0.796	1160836	1.52	100	100.2	90	110	
Sn	118	1	No Gas	101.423	1.750	1917865	2.49	100	101.4	90	110	
Sb	121	1	No Gas	99.977	2.151	2669470	2.22	100	100.0	90	110	
Ba	137	1	No Gas	100.380	0.592	919888	0.87	100	100.4	90	110	
Tl	205	1	No Gas	100.746	2.805	5251795	2.10	100	100.7	90	110	
Tl	203	1	No Gas	100.108	2.091	2203106	1.46	100	100.1	90	110	
Pb	208	1	No Gas	100.567	2.375	7207220	1.64	100	100.6	90	110	
U	238	1	No Gas	99.051	1.950	7153414	1.50	100	99.1	90	110	
Ca	43	2	He	10114.582	1.086	39637	1.38	10000	101.1	90	110	
Sb	121	2	He	99.887	0.339	1277688	0.44	100	99.9	90	110	
Ti	47	2	He	103.009	2.124	41238	2.37	100	103.0	90	110	
Cu	63	1	No Gas	102.578	3.351	2525087	3.39	100	102.6	90	110	
Se	82	1	No Gas	100.371	3.690	41139	3.66	100	100.4	90	110	
Zr	90	1	No Gas	100.035	0.360	3703632	1.10	100	100.0	90	110	
Zr	90	2	He	98.900	0.844	1605583	0.99	100	98.9	90	1100	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1266115	0.99	1318920	96.00	70	120	
Ge	72	2	He	1304254	0.30	1309648	99.59	70	120	
Ge	72	1	No Gas	4303147	0.11	4382507	98.19	70	120	
In	115	1	No Gas	4636062	0.74	4742062	97.76	70	120	
Bi	209	1	No Gas	3856676	0.86	3878294	99.44	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	025ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:33:57-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.217	13.0	76397	1.8	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.033	3.4	208	3.7	0	ICSA Main CR1 Failed
V	51	2	He	0.294	7.0	6597	2.1	0	ICSA Main CR1 Failed
Cr	52	2	He	0.878	4.6	23801	0.6	0	ICSA Main CR1 Failed
Fe	56	2	He	98362.357	3.6	1120177237	1.9	0	
Se	78	2	He	-0.162	-112.6	208	15.1	0	ICSA Main CR1 Failed
As	75	2	He	0.406	4.9	1266	2.3	0	ICSA Main CR1 Failed
Ca	44	2	He	98515.378	3.7	6569593	2.0	0	
Na	23	2	He	100079.613	3.3	169288804	1.4	0	
Mg	24	2	He	99087.783	4.0	104742718	2.1	0	
K	39	2	He	100013.473	2.9	125465345	1.2	0	
Mn	55	2	He	1.687	2.4	15612	0.6	0	ICSA Main CR1 Failed
Co	59	2	He	1.022	5.6	19307	4.0	0	ICSA Main CR1 Failed
Ni	60	2	He	1.052	7.8	5618	6.9	0	ICSA Main CR1 Failed
Cu	63	2	He	0.731	3.9	11285	1.8	0	ICSA Main CR1 Failed
Zn	66	2	He	3.002	3.2	9370	1.0	0	ICSA Main CR1 Failed
Al	27	2	He	102227.051	3.8	68042219	2.1	0	
B	11	1	No Gas	2.793	16.2	28347	5.2	0	
Al	27	1	No Gas	102508.562	3.8	2411529404	2.9	0	
Si	28	1	No Gas	56.863	1.3	1522975	0.6	0	
Ag	107	1	No Gas	0.041	7.2	3350	2.6	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.693	9.2	4041	9.8	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.900	4.2	52556	3.0	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	2111.609	3.0	23124100	2.0	0	
Sn	118	1	No Gas	0.363	2.6	11358	2.1	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.225	13.7	6598	11.3	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.583	5.6	5355	5.3	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.002	149.6	897	15.5	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.000	4747.4	323	12.5	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.912	1.6	64442	1.6	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.006	8.5	1033	3.4	0	ICSA Main CR1 Failed
Ca	43	2	He	95904.778	4.0	372347	2.2	0	
Sb	121	2	He	0.201	9.1	2924	6.1	0	ICSA Main CR1 Failed
Ti	47	2	He	2026.116	4.4	803115	2.6	0	
Se	82	1	No Gas	0.151	75.1	787	6.3	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1212042	1.19	1318920	91.90	70	120	
Ge	72	2	He	1294015	1.95	1309648	98.81	70	120	
Ge	72	1	No Gas	4175935	0.99	4382507	95.29	70	120	
In	115	1	No Gas	4383741	1.02	4742062	92.44	70	120	
Bi	209	1	No Gas	3570527	0.25	3878294	92.06	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	026ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:36:33-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	101.965	1.635	1798769	1.83	100	102.0	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	101.786	2.287	483140	2.52	100	101.8	80	120	
V	51	2	He	104.690	1.205	1112168	2.16	100	104.7	80	120	
Cr	52	2	He	103.604	1.124	1236519	2.07	100	103.6	80	120	
Fe	56	2	He	110521.691	1.913	1258718035	2.88	100	110521.7	80	120	ICSB Main CR1 Failed
Se	78	2	He	103.880	0.958	18843	1.82	100	103.9	80	120	
As	75	2	He	103.998	1.825	228034	2.78	100	104.0	80	120	
Ca	44	2	He	110219.832	1.109	7349944	2.06	100	110219.8	80	120	
Na	23	2	He	113465.689	1.452	191915004	2.42	100	113465.7	80	120	ICSB Main CR1 Failed
Mg	24	2	He	110917.280	1.030	117252015	1.88	100	110917.3	80	120	
K	39	2	He	112071.126	0.511	140554498	1.45	100	112071.1	80	120	ICSB Main CR1 Failed
Mn	55	2	He	103.886	1.392	917897	2.32	100	103.9	80	120	
Co	59	2	He	102.138	0.957	1918664	1.92	100	102.1	80	120	
Ni	60	2	He	99.609	0.936	481450	1.61	100	99.6	80	120	
Cu	63	2	He	100.599	1.059	1314984	2.02	100	100.6	80	120	
Zn	66	2	He	102.992	2.267	270159	3.22	100	103.0	80	120	
Al	27	2	He	103497.173	1.782	68891919	2.74	100	103497.2	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	520.786	1.321	1634265	1.56	100	520.8	80	120	
Al	27	1	No Gas	98627.093	2.868	2338339325	2.48	100	98627.1	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	575.770	1.244	6643489	0.71	100	575.8	80	120	
Ag	107	1	No Gas	103.841	1.777	3077406	1.24	100	103.8	80	120	
Cd	111	1	No Gas	102.823	1.630	591786	1.14	100	102.8	80	120	
Sr	88	1	No Gas	108.476	2.136	5939054	1.61	100	108.5	80	120	
Mo	95	1	No Gas	2214.001	2.161	24101767	1.63	100	2214.0	80	120	
Sn	118	1	No Gas	106.912	1.527	1899542	1.04	100	106.9	80	120	
Sb	121	1	No Gas	106.505	1.975	2780539	1.59	100	106.5	80	120	
Ba	137	1	No Gas	107.080	2.275	922174	1.74	100	107.1	80	120	
Tl	205	1	No Gas	93.943	1.539	4468094	1.59	100	93.9	80	120	
Tl	203	1	No Gas	93.593	1.453	1879187	1.58	100	93.6	80	120	
Pb	208	1	No Gas	106.100	1.352	6937084	1.40	100	106.1	80	120	
U	238	1	No Gas	105.685	2.074	6963224	2.08	100	105.7	80	120	
Ca	43	2	He	106922.265	1.269	415137	2.05	100	106922.3	80	120	
Sb	121	2	He	106.567	1.333	1351821	2.30	100	106.6	80	120	
Ti	47	2	He	2146.497	1.275	850919	2.17	100	2146.5	80	120	ICSB Main CR1 Failed
Cu	63	1	No Gas	100.722	2.388	2424398	2.08	100	100.7	80	120	
Se	82	1	No Gas	103.562	3.309	41480	3.00	100	103.6	80	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1175227	0.30	1318920	89.11	70	120	
Ge	72	2	He	1293350	0.97	1309648	98.76	70	120	
Ge	72	1	No Gas	4207805	0.39	4382507	96.01	70	120	
In	115	1	No Gas	4357243	0.55	4742062	91.88	70	120	
Bi	209	1	No Gas	3518217	0.21	3878294	90.72	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	031_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:50:40-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	95.194	1.002	1843417	1.55	100	95.2	90	110	
Be	9	1	No Gas	97.453	0.811	506356	1.39	100	97.5	90	110	
V	51	2	He	100.983	0.564	1097790	1.61	100	101.0	90	110	
Cr	52	2	He	100.786	1.303	1231123	1.75	100	100.8	90	110	
Fe	56	2	He	10057.408	1.031	117209795	1.75	10000	100.6	90	110	
Se	78	2	He	99.333	1.554	18446	1.86	100	99.3	90	110	
As	75	2	He	100.683	0.978	225895	2.03	100	100.7	90	110	
Ca	44	2	He	10125.952	0.171	692865	1.24	10000	101.3	90	110	
Na	23	2	He	10230.838	0.400	17833953	1.42	10000	102.3	90	110	
Mg	24	2	He	10217.894	0.173	11052494	1.15	10000	102.2	90	110	
K	39	2	He	10186.260	0.117	13215350	1.09	10000	101.9	90	110	
Mn	55	2	He	100.727	1.124	910638	1.90	100	100.7	90	110	
Co	59	2	He	101.181	0.260	1944745	1.19	100	101.2	90	110	
Ni	60	2	He	100.522	0.928	497129	1.39	100	100.5	90	110	
Cu	63	2	He	100.792	1.077	1348116	2.15	100	100.8	90	110	
Zn	66	2	He	100.922	0.776	270884	1.74	100	100.9	90	110	
Al	27	2	He	100.492	2.886	70915	2.96	100	100.5	90	110	
B	11	1	No Gas	470.504	1.170	1618154	1.03	500	94.1	90	110	
Al	27	1	No Gas	99.048	1.115	2527998	1.45	100	99.0	90	110	
Si	28	1	No Gas	490.625	0.889	6022681	1.20	5000	9.8	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	103.862	1.865	3309109	1.88	100	103.9	90	110	
Cd	111	1	No Gas	99.435	1.470	615248	1.41	100	99.4	90	110	
Sr	88	1	No Gas	102.315	1.533	6022512	1.48	100	102.3	90	110	
Mo	95	1	No Gas	101.871	1.033	1192418	1.00	100	101.9	90	110	
Sn	118	1	No Gas	101.785	2.070	1944453	2.07	100	101.8	90	110	
Sb	121	1	No Gas	101.073	2.228	2737595	2.16	100	101.1	90	110	
Ba	137	1	No Gas	102.093	2.280	945254	2.19	100	102.1	90	110	
Tl	205	1	No Gas	99.181	1.195	5252189	2.14	100	99.2	90	110	
Tl	203	1	No Gas	99.603	1.029	2226615	2.04	100	99.6	90	110	
Pb	208	1	No Gas	100.075	1.349	7285497	2.24	100	100.1	90	110	
U	238	1	No Gas	98.313	0.815	7211906	1.61	100	98.3	90	110	
Ca	43	2	He	9929.740	1.392	39480	0.81	10000	99.3	90	110	
Sb	121	2	He	100.162	0.827	1300057	1.72	100	100.2	90	110	
Ti	47	2	He	100.411	1.822	40790	2.45	100	100.4	90	110	
Cu	63	1	No Gas	101.589	2.680	2536726	2.47	100	101.6	90	110	
Se	82	1	No Gas	99.207	1.458	41260	1.98	100	99.2	90	110	
Zr	90	1	No Gas	100.109	0.769	3744684	0.75	100	100.1	90	110	
Zr	90	2	He	98.368	0.427	1620414	1.34	100	98.4	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1286478	0.75	1318920	97.54	70	120	
Ge	72	2	He	1323395	1.07	1309648	101.05	70	120	
Ge	72	1	No Gas	4365262	0.65	4382507	99.61	70	120	
In	115	1	No Gas	4684071	0.14	4742062	98.78	70	120	
Bi	209	1	No Gas	3916997	1.17	3878294	101.00	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	032_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T11:53:05-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.392	8.4	84068	0.4	0.5	
Be	9	1	No Gas	0.032	16.1	217	13.1	0.5	
V	51	2	He	-0.102	-5.9	2479	2.3	2.5	
Cr	52	2	He	-0.224	-11.8	11095	2.4	2.5	
Fe	56	2	He	2.028	4.6	42783	2.2	100	
Se	78	2	He	0.130	110.7	268	10.4	2	
As	75	2	He	0.034	42.6	464	7.2	2.5	
Ca	44	2	He	-0.244	-1809.7	2170	14.2	100	
Na	23	2	He	1.990	18.3	145776	0.1	100	
Mg	24	2	He	0.925	15.0	1703	9.4	100	
K	39	2	He	5.733	25.9	166367	0.6	100	
Mn	55	2	He	0.029	10.3	1003	2.5	2.5	
Co	59	2	He	0.007	29.6	240	16.7	2.5	
Ni	60	2	He	0.054	12.9	820	4.4	2.5	
Cu	63	2	He	0.041	22.2	2340	5.2	2	
Zn	66	2	He	0.183	40.6	2077	10.2	2.5	
Al	27	2	He	1.648	13.3	3621	4.2	5	
B	11	1	No Gas	2.510	12.3	29038	4.0	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	1.290	7.0	123971	1.1	5	
Si	28	1	No Gas	-3.006	-29.1	985089	0.2	10	
Ag	107	1	No Gas	0.540	21.7	19939	20.0	2.5	
Cd	111	1	No Gas	0.007	9.6	71	5.8	1	
Sr	88	1	No Gas	0.026	19.0	4881	5.9	2.5	
Mo	95	1	No Gas	0.136	28.7	1803	25.1	2.5	
Sn	118	1	No Gas	0.163	13.3	8526	4.2	5	
Sb	121	1	No Gas	0.461	15.6	13344	14.0	2.5	
Ba	137	1	No Gas	0.038	25.5	693	14.0	2.5	
Tl	205	1	No Gas	0.033	12.7	2674	8.3	1	
Tl	203	1	No Gas	0.031	30.6	1063	20.0	1	
Pb	208	1	No Gas	0.039	15.6	7241	5.1	2.5	
U	238	1	No Gas	0.010	3.8	1400	1.2	2.5	
Ca	43	2	He	10.673	53.0	83	27.7	100	
Sb	121	2	He	0.351	8.6	4964	7.9	2.5	
Ti	47	2	He	-0.044	-235.2	47	89.2	2.5	
Cu	63	1	No Gas	0.039	33.0	4638	6.3	2.5	
Se	82	1	No Gas	0.178	76.8	837	6.0	2	
Zr	90	1	No Gas	0.237	24.3	10538	20.3	2.5	
Zr	90	2	He	0.141	6.7	4114	3.3	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1282494	0.99	1318920	97.24	70	120	
Ge	72	2	He	1330110	0.55	1309648	101.56	70	120	
Ge	72	1	No Gas	4385645	0.78	4382507	100.07	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4794892	1.16	4742062	101.11	70	120	
Bi	209	1	No Gas	3976402	1.08	3878294	102.53	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01SD
Data File Name	035SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:00:44-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	6.543	6.543	0.74	210938	0.00	2000	
Be	9	1	No Gas	0.012	0.012	16.76	117	0.01	2000	
V	51	2	He	0.129	0.129	4.36	5085	0.00	2000	
Cr	52	2	He	-0.152	-0.152	-18.89	12189	0.00	2000	
Fe	56	2	He	17.530	17.530	2.54	228390	0.01	200000	
Se	78	2	He	0.001	0.001	32913.45	249	0.00	2000	
As	75	2	He	0.061	0.061	21.90	536	0.01	2000	
Ca	44	2	He	4236.155	4236.155	2.74	297881	1.42	200000	
Na	23	2	He	104682.275	104682.275	1.87	185381624	0.06	200000	
Mg	24	2	He	2100.049	2100.049	1.84	2325029	0.09	200000	
K	39	2	He	405.363	405.363	3.09	693549	0.06	200000	
Mn	55	2	He	9.577	9.577	3.42	89267	0.01	2000	
Co	59	2	He	0.018	0.018	3.65	463	0.00	2000	
Ni	60	2	He	0.048	0.048	21.49	807	0.01	2000	
Cu	63	2	He	0.095	0.095	2.65	3124	0.00	2000	
Zn	66	2	He	0.912	0.912	7.27	4104	0.02	2000	
Al	27	2	He	0.475	0.475	109.86	2867	0.02	2000	
B	11	1	No Gas	4.094	4.094	3.85	36681	0.01	2000	
Al	27	1	No Gas	0.384	0.384	11.36	103426	0.00	2000	
Si	28	1	No Gas	2220.287	2220.287	1.76	24231578	0.01	2000	>LDR
Ag	107	1	No Gas	0.149	0.149	33.84	6992	0.00	2000	
Cd	111	1	No Gas	0.004	0.004	87.48	52	0.01	2000	
Sr	88	1	No Gas	87.513	87.513	2.88	5138552	0.00	2000	
Mo	95	1	No Gas	0.033	0.033	32.76	563	0.01	2000	
Sn	118	1	No Gas	0.032	0.032	22.71	5805	0.00	2000	
Sb	121	1	No Gas	0.091	0.091	3.84	3351	0.00	2000	
Ba	137	1	No Gas	43.930	43.930	2.46	405899	0.01	2000	
Tl	205	1	No Gas	0.004	0.004	46.30	1040	0.00	2000	
Tl	203	1	No Gas	0.005	0.005	69.27	443	0.00	2000	
Pb	208	1	No Gas	0.003	0.003	161.03	4240	0.00	2000	
U	238	1	No Gas	0.000	0.000	342.81	650	0.00	2000	
Ca	43	2	He	4370.931	4370.931	4.92	17805	24.55	200000	
Sb	121	2	He	0.096	0.096	7.20	1677	0.01	2000	
Ti	47	2	He	0.364	0.364	28.31	217	0.17	2000	
Cu	63	1	No Gas	0.587	0.587	2.05	18690	0.00	2000	
Ca	44	1	No Gas	4299.634	4299.634	1.48	3969932	0.11	200000	
Zn	66	1	No Gas	0.943	0.943	3.68	11141	0.01	2000	
Se	82	1	No Gas	-0.010	-0.010	-2246.69	773	0.00	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1367303	1.62	1318920	103.67	70	120	
Ge	72	2	He	1354290	0.65	1309648	103.41	70	120	
Ge	72	1	No Gas	4464808	0.64	4382507	101.88	70	120	
In	115	1	No Gas	4672603	0.61	4742062	98.54	70	120	
Bi	209	1	No Gas	3644714	1.41	3878294	93.98	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01MS
Data File Name	036SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:03:10-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	27.441	27.441	1.46	595473	0.00	2000	
Be	9	1	No Gas	46.699	46.699	1.76	246477	0.02	2000	
V	51	2	He	49.728	49.728	1.14	525617	0.01	2000	
Cr	52	2	He	49.623	49.623	1.25	594203	0.01	2000	
Fe	56	2	He	4931.866	4931.866	1.95	55711154	0.01	200000	
Se	78	2	He	48.552	48.552	2.45	8859	0.55	2000	
As	75	2	He	50.560	50.560	1.52	110116	0.05	2000	
Ca	44	2	He	26759.121	26759.121	1.84	1771006	1.51	200000	
Na	23	2	He	532992.967	532992.967	1.03	893337213	0.06	200000	>LDR
Mg	24	2	He	15382.022	15382.022	1.39	16124611	0.10	200000	
K	39	2	He	7026.056	7026.056	1.37	8881715	0.08	200000	
Mn	55	2	He	96.865	96.865	2.00	848723	0.01	2000	
Co	59	2	He	48.975	48.975	1.82	912322	0.01	2000	
Ni	60	2	He	48.225	48.225	1.30	231404	0.02	2000	
Cu	63	2	He	47.754	47.754	1.54	619855	0.01	2000	
Zn	66	2	He	53.838	53.838	2.46	140764	0.04	2000	
Al	27	2	He	117.260	117.260	2.23	79796	0.15	2000	
B	11	1	No Gas	464.066	464.066	0.19	1621587	0.03	2000	
Al	27	1	No Gas	115.373	115.373	1.53	2797754	0.00	2000	
Si	28	1	No Gas	11232.275	11232.275	1.75	110534708	0.01	2000	>LDR
Ag	107	1	No Gas	47.337	47.337	0.47	1416518	0.00	2000	
Cd	111	1	No Gas	47.612	47.612	0.52	276489	0.02	2000	
Sr	88	1	No Gas	517.329	517.329	1.13	28564702	0.00	2000	
Mo	95	1	No Gas	50.525	50.525	0.18	555097	0.01	2000	
Sn	118	1	No Gas	98.566	98.566	0.23	1767235	0.01	2000	
Sb	121	1	No Gas	48.692	48.692	1.03	1259965	0.00	2000	
Ba	137	1	No Gas	263.186	263.186	1.01	2286352	0.01	2000	
Tl	205	1	No Gas	44.080	44.080	1.13	2037769	0.00	2000	
Tl	203	1	No Gas	44.100	44.100	0.95	860607	0.01	2000	
Pb	208	1	No Gas	48.917	48.917	0.97	3110161	0.00	2000	
U	238	1	No Gas	0.004	0.004	47.74	860	0.00	2000	
Ca	43	2	He	26772.835	26772.835	0.61	103100	25.97	200000	
Sb	121	2	He	49.446	49.446	1.70	622140	0.01	2000	
Ti	47	2	He	152.312	152.312	2.68	59926	0.25	2000	
Cu	63	1	No Gas	51.065	51.065	0.93	1219556	0.00	2000	
Ca	44	1	No Gas	25619.823	25619.823	1.32	21512381	0.12	200000	
Zn	66	1	No Gas	53.198	53.198	1.77	375235	0.01	2000	
Se	82	1	No Gas	47.905	47.905	1.45	19404	0.25	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1306839	0.97	1318920	99.08	70	120	
Ge	72	2	He	1282466	0.87	1309648	97.92	70	120	
Ge	72	1	No Gas	4169134	0.91	4382507	95.13	70	120	
In	115	1	No Gas	4395824	1.11	4742062	92.70	70	120	
Bi	209	1	No Gas	3419253	1.78	3878294	88.16	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01MSD
Data File Name	037SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:05:38-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	28.060	28.060	0.66	592307	0.00	2000	
Be	9	1	No Gas	46.234	46.234	0.26	238071	0.02	2000	
V	51	2	He	50.761	50.761	1.87	502061	0.01	2000	
Cr	52	2	He	50.573	50.573	2.63	566463	0.01	2000	
Fe	56	2	He	5025.921	5025.921	2.12	53128511	0.01	200000	
Se	78	2	He	49.011	49.011	2.49	8366	0.59	2000	
As	75	2	He	50.880	50.880	2.21	103696	0.05	2000	
Ca	44	2	He	27184.109	27184.109	0.76	1683683	1.61	200000	
Na	23	2	He	542922.042	542922.042	1.64	851625801	0.06	200000	>LDR
Mg	24	2	He	15725.270	15725.270	1.28	15426663	0.10	200000	
K	39	2	He	7147.321	7147.321	1.75	8452642	0.08	200000	
Mn	55	2	He	97.380	97.380	2.73	798430	0.01	2000	
Co	59	2	He	49.142	49.142	2.19	856672	0.01	2000	
Ni	60	2	He	48.750	48.750	2.17	218912	0.02	2000	
Cu	63	2	He	48.482	48.482	2.02	588906	0.01	2000	
Zn	66	2	He	54.951	54.951	2.09	134414	0.04	2000	
Al	27	2	He	120.214	120.214	2.03	76498	0.16	2000	
B	11	1	No Gas	465.528	465.528	0.97	1586753	0.03	2000	
Al	27	1	No Gas	117.539	117.539	0.49	2705459	0.00	2000	
Si	28	1	No Gas	11379.142	11379.142	0.68	106338635	0.01	2000	>LDR
Ag	107	1	No Gas	47.479	47.479	0.77	1345800	0.00	2000	
Cd	111	1	No Gas	48.360	48.360	0.23	266031	0.02	2000	
Sr	88	1	No Gas	526.703	526.703	1.39	27545845	0.00	2000	
Mo	95	1	No Gas	50.671	50.671	0.31	527364	0.01	2000	
Sn	118	1	No Gas	98.977	98.977	0.60	1681066	0.01	2000	
Sb	121	1	No Gas	49.468	49.468	0.46	1215697	0.00	2000	
Ba	137	1	No Gas	269.380	269.380	1.58	2216483	0.01	2000	
Tl	205	1	No Gas	45.763	45.763	0.30	1980415	0.00	2000	
Tl	203	1	No Gas	45.954	45.954	0.35	839484	0.01	2000	
Pb	208	1	No Gas	49.891	49.891	0.10	2969244	0.00	2000	
U	238	1	No Gas	0.005	0.005	12.49	837	0.00	2000	
Ca	43	2	He	27359.578	27359.578	0.83	98604	27.75	200000	
Sb	121	2	He	50.086	50.086	2.78	589727	0.01	2000	
Ti	47	2	He	150.938	150.938	0.30	55581	0.27	2000	
Cu	63	1	No Gas	51.439	51.439	0.79	1166702	0.00	2000	
Ca	44	1	No Gas	26206.025	26206.025	0.23	20896770	0.13	200000	
Zn	66	1	No Gas	53.786	53.786	0.62	360284	0.01	2000	
Se	82	1	No Gas	48.761	48.761	1.27	18743	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1274838	0.65	1318920	96.66	70	120	
Ge	72	2	He	1200309	0.46	1309648	91.65	70	120	
Ge	72	1	No Gas	3959460	0.49	4382507	90.35	70	120	
In	115	1	No Gas	4164193	1.74	4742062	87.81	70	120	
Bi	209	1	No Gas	3200487	1.07	3878294	82.52	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01PDS
Data File Name	038SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:08:06-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	27.251	27.251	0.63	581863	0.00	2000	
Be	9	1	No Gas	88.766	88.766	0.39	460554	0.02	2000	
V	51	2	He	98.376	98.376	0.82	971552	0.01	2000	
Cr	52	2	He	96.177	96.177	1.13	1067780	0.01	2000	
Fe	56	2	He	9686.609	9686.609	1.27	102545098	0.01	200000	
Se	78	2	He	95.338	95.338	2.35	16091	0.59	2000	
As	75	2	He	97.437	97.437	1.59	198580	0.05	2000	
Ca	44	2	He	31033.452	31033.452	1.42	1924828	1.61	200000	
Na	23	2	He	535577.187	535577.187	1.52	841437321	0.06	200000	>LDR
Mg	24	2	He	19969.901	19969.901	1.80	19621103	0.10	200000	
K	39	2	He	11763.785	11763.785	1.51	13841476	0.08	200000	
Mn	55	2	He	143.300	143.300	1.56	1176510	0.01	2000	
Co	59	2	He	94.906	94.906	2.13	1656950	0.01	2000	
Ni	60	2	He	92.518	92.518	1.86	415661	0.02	2000	
Cu	63	2	He	93.649	93.649	2.33	1137800	0.01	2000	
Zn	66	2	He	98.085	98.085	1.10	239183	0.04	2000	
Al	27	2	He	103.286	103.286	3.01	66142	0.16	2000	
B	11	1	No Gas	26.535	26.535	0.56	110546	0.02	2000	
Al	27	1	No Gas	101.673	101.673	0.90	2336760	0.00	2000	
Si	28	1	No Gas	10774.086	10774.086	1.43	100099745	0.01	2000	>LDR
Ag	107	1	No Gas	91.468	91.468	0.93	2598336	0.00	2000	
Cd	111	1	No Gas	91.978	91.978	1.13	507384	0.02	2000	
Sr	88	1	No Gas	410.244	410.244	0.99	21519537	0.00	2000	
Mo	95	1	No Gas	96.717	96.717	1.23	1009253	0.01	2000	
Sn	118	1	No Gas	0.538	0.538	5.72	13794	0.00	2000	
Sb	121	1	No Gas	96.255	96.255	1.80	2349875	0.00	2000	
Ba	137	1	No Gas	303.778	303.778	1.82	2506849	0.01	2000	
Tl	205	1	No Gas	89.301	89.301	2.08	3909712	0.00	2000	
Tl	203	1	No Gas	89.584	89.584	2.15	1655623	0.01	2000	
Pb	208	1	No Gas	95.188	95.188	1.68	5729352	0.00	2000	
U	238	1	No Gas	0.007	0.007	14.80	947	0.00	2000	
Ca	43	2	He	30644.184	30644.184	1.76	110611	27.70	200000	
Sb	121	2	He	99.182	99.182	1.89	1169330	0.01	2000	
Ti	47	2	He	98.041	98.041	2.10	36177	0.27	2000	
Cu	63	1	No Gas	96.889	96.889	0.82	2180953	0.00	2000	
Ca	44	1	No Gas	30101.617	30101.617	1.09	23835760	0.13	200000	
Zn	66	1	No Gas	96.502	96.502	1.19	639495	0.02	2000	
Se	82	1	No Gas	94.374	94.374	1.65	35410	0.27	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1284662	0.77	1318920	97.40	70	120	
Ge	72	2	He	1202237	0.72	1309648	91.80	70	120	
Ge	72	1	No Gas	3934753	0.73	4382507	89.78	70	120	
In	115	1	No Gas	4176046	0.66	4742062	88.06	70	120	
Bi	209	1	No Gas	3238821	1.01	3878294	83.51	70	120	

Sample Report

Sample Table

Sample Name	LCS-212449
Data File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:18:50-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	78.214	78.214	1.27	1490411	0.01	2000	
Be	9	1	No Gas	46.523	46.523	0.60	235745	0.02	2000	
V	51	2	He	47.589	47.589	2.58	475240	0.01	2000	
Cr	52	2	He	47.989	47.989	2.27	543167	0.01	2000	
Fe	56	2	He	4809.396	4809.396	3.40	51306828	0.01	200000	
Se	78	2	He	47.423	47.423	0.22	8178	0.58	2000	
As	75	2	He	47.514	47.514	2.20	97758	0.05	2000	
Ca	44	2	He	4892.026	4892.026	2.24	307420	1.59	200000	
Na	23	2	He	4966.761	4966.761	3.04	7990951	0.06	200000	
Mg	24	2	He	4893.684	4893.684	3.40	4845179	0.10	200000	
K	39	2	He	4872.951	4872.951	2.31	5862342	0.08	200000	
Mn	55	2	He	49.317	49.317	2.87	408422	0.01	2000	
Co	59	2	He	48.208	48.208	3.52	848096	0.01	2000	
Ni	60	2	He	48.368	48.368	2.99	219199	0.02	2000	
Cu	63	2	He	49.436	49.436	2.49	606021	0.01	2000	
Zn	66	2	He	50.937	50.937	2.67	125853	0.04	2000	
Al	27	2	He	101.809	101.809	2.10	65733	0.15	2000	
B	11	1	No Gas	427.990	427.990	0.47	1437239	0.03	2000	
Al	27	1	No Gas	101.472	101.472	2.94	2367429	0.00	2000	
Si	28	1	No Gas	632.727	632.727	3.48	6837987	0.01	2000	
Ag	107	1	No Gas	47.227	47.227	1.75	1369807	0.00	2000	
Cd	111	1	No Gas	45.527	45.527	1.60	256251	0.02	2000	
Sr	88	1	No Gas	91.887	91.887	1.21	4919902	0.00	2000	
Mo	95	1	No Gas	47.158	47.158	0.31	502176	0.01	2000	
Sn	118	1	No Gas	91.367	91.367	1.38	1588062	0.01	2000	
Sb	121	1	No Gas	47.766	47.766	1.93	1184196	0.00	2000	
Ba	137	1	No Gas	47.274	47.274	1.57	398281	0.01	2000	
Tl	205	1	No Gas	40.683	40.683	2.48	1883125	0.00	2000	
Tl	203	1	No Gas	40.529	40.529	1.60	791993	0.01	2000	
Pb	208	1	No Gas	47.240	47.240	1.86	3007495	0.00	2000	
U	238	1	No Gas	83.659	83.659	2.52	5363162	0.00	2000	
Ca	43	2	He	5055.526	5055.526	1.90	18419	27.45	200000	
Sb	121	2	He	48.803	48.803	3.05	579946	0.01	2000	
Ti	47	2	He	140.743	140.743	3.65	52302	0.27	2000	
Cu	63	1	No Gas	49.688	49.688	2.12	1137031	0.00	2000	
Ca	44	1	No Gas	4859.330	4859.330	2.86	3998784	0.12	200000	
Zn	66	1	No Gas	49.610	49.610	2.19	335511	0.01	2000	
Se	82	1	No Gas	46.434	46.434	3.54	18039	0.26	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1254539	0.43	1318920	95.12	70	120	
Ge	72	2	He	1211542	1.08	1309648	92.51	70	120	
Ge	72	1	No Gas	3994982	1.51	4382507	91.16	70	120	

Sample Report

In	115	1	No Gas	4260695	0.63	4742062	89.85	70	120	
Bi	209	1	No Gas	3423919	1.31	3878294	88.28	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	043_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:28:07-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.571	1.400	1753645	2.26	100	97.6	90	110	
Be	9	1	No Gas	100.010	1.415	482781	2.26	100	100.0	90	110	
V	51	2	He	99.594	3.266	988466	3.09	100	99.6	90	110	
Cr	52	2	He	99.915	2.347	1114380	2.18	100	99.9	90	110	
Fe	56	2	He	9944.241	2.418	105802182	2.24	10000	99.4	90	110	
Se	78	2	He	98.083	2.257	16632	2.09	100	98.1	90	110	
As	75	2	He	99.758	2.145	204330	1.97	100	99.8	90	110	
Ca	44	2	He	9908.110	3.720	618984	3.53	10000	99.1	90	110	
Na	23	2	He	10164.628	1.251	16177251	1.12	10000	101.6	90	110	
Mg	24	2	He	10108.781	1.721	9982894	1.54	10000	101.1	90	110	
K	39	2	He	10032.061	2.143	11884809	1.94	10000	100.3	90	110	
Mn	55	2	He	99.389	2.102	820327	1.97	100	99.4	90	110	
Co	59	2	He	99.841	2.009	1751991	1.89	100	99.8	90	110	
Ni	60	2	He	100.172	2.558	452286	2.40	100	100.2	90	110	
Cu	63	2	He	99.426	2.659	1214039	2.49	100	99.4	90	110	
Zn	66	2	He	98.668	1.627	241810	1.44	100	98.7	90	110	
Al	27	2	He	101.859	2.421	65593	2.16	100	101.9	90	110	
B	11	1	No Gas	473.468	1.079	1512746	1.70	500	94.7	90	110	
Al	27	1	No Gas	100.799	3.055	2357612	2.76	100	100.8	90	110	
Si	28	1	No Gas	511.681	1.815	5720026	1.39	5000	10.2	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	101.505	1.801	2953452	1.39	100	101.5	90	110	
Cd	111	1	No Gas	98.325	1.445	555594	0.85	100	98.3	90	110	
Sr	88	1	No Gas	101.527	2.810	5457431	2.33	100	101.5	90	110	
Mo	95	1	No Gas	100.879	1.860	1078332	1.27	100	100.9	90	110	
Sn	118	1	No Gas	99.974	2.159	1744216	1.72	100	100.0	90	110	
Sb	121	1	No Gas	98.857	1.504	2455415	1.28	100	98.9	90	110	
Ba	137	1	No Gas	100.639	2.524	850924	1.91	100	100.6	90	110	
Tl	205	1	No Gas	100.859	2.280	4783545	2.28	100	100.9	90	110	
Tl	203	1	No Gas	100.214	1.825	2006380	1.43	100	100.2	90	110	
Pb	208	1	No Gas	100.144	1.395	6529764	1.68	100	100.1	90	110	
U	238	1	No Gas	97.766	2.311	6423971	2.77	100	97.8	90	110	
Ca	43	2	He	10002.537	2.667	36311	2.49	10000	100.0	90	110	
Sb	121	2	He	97.872	1.290	1159755	1.12	100	97.9	90	110	
Ti	47	2	He	98.558	4.109	36552	3.93	100	98.6	90	110	
Cu	63	1	No Gas	101.670	2.391	2328173	2.23	100	101.7	90	110	
Se	82	1	No Gas	100.466	1.435	38304	1.11	100	100.5	90	110	
Zr	90	1	No Gas	100.147	2.275	3421005	1.86	100	100.1	90	110	
Zr	90	2	He	96.444	1.674	1450474	1.51	100	96.4	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1195180	1.05	1318920	90.62	70	120	
Ge	72	2	He	1208256	0.18	1309648	92.26	70	120	
Ge	72	1	No Gas	4003093	0.46	4382507	91.34	70	120	
In	115	1	No Gas	4277910	0.67	4742062	90.21	70	120	
Bi	209	1	No Gas	3508526	1.13	3878294	90.47	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	044_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:30:33-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.190	37.3	77543	1.3	0.5	
Be	9	1	No Gas	0.009	23.3	93	11.2	0.5	
V	51	2	He	0.101	9.7	4393	2.5	2.5	
Cr	52	2	He	-0.179	-5.8	10914	0.9	2.5	
Fe	56	2	He	1.280	8.0	31901	3.3	100	
Se	78	2	He	0.031	328.6	234	7.5	2	
As	75	2	He	0.037	32.3	441	5.5	2.5	
Ca	44	2	He	-0.356	-832.3	2027	9.2	100	
Na	23	2	He	60.265	3.0	231651	1.3	100	
Mg	24	2	He	0.595	19.7	1260	9.7	100	
K	39	2	He	9.084	9.9	160043	0.8	100	
Mn	55	2	He	0.019	87.5	857	16.9	2.5	
Co	59	2	He	0.001	187.5	127	37.3	2.5	
Ni	60	2	He	0.034	26.9	673	6.0	2.5	
Cu	63	2	He	0.033	39.9	2094	7.7	2	
Zn	66	2	He	0.125	46.6	1800	8.0	2.5	
Al	27	2	He	1.606	26.9	3367	8.2	5	
B	11	1	No Gas	2.731	18.6	28754	6.1	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	1.515	11.2	120917	3.9	5	
Si	28	1	No Gas	6.774	25.7	1013046	0.4	10	
Ag	107	1	No Gas	-0.018	-20.0	1603	6.9	2.5	
Cd	111	1	No Gas	-0.001	-460.3	18	166.0	1	
Sr	88	1	No Gas	0.025	21.5	4444	6.9	2.5	
Mo	95	1	No Gas	0.070	7.7	943	6.0	2.5	
Sn	118	1	No Gas	0.038	37.7	5645	4.3	5	
Sb	121	1	No Gas	0.333	19.9	9213	18.6	2.5	
Ba	137	1	No Gas	0.036	19.5	630	9.9	2.5	
Tl	205	1	No Gas	0.012	19.9	1430	9.3	1	
Tl	203	1	No Gas	0.013	57.3	603	26.2	1	
Pb	208	1	No Gas	0.009	43.2	4607	6.2	2.5	
U	238	1	No Gas	0.006	45.9	1067	19.9	2.5	
Ca	43	2	He	12.089	56.0	83	30.2	100	
Sb	121	2	He	0.225	6.6	3114	6.1	2.5	
Ti	47	2	He	-0.097	-40.9	23	65.5	2.5	
Cu	63	1	No Gas	0.073	5.2	5121	0.7	2.5	
Se	82	1	No Gas	0.059	408.1	737	13.9	2	
Zr	90	1	No Gas	0.255	20.5	10408	17.3	2.5	
Zr	90	2	He	0.146	6.8	3941	3.8	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1238004	0.41	1318920	93.86	70	120	
Ge	72	2	He	1247136	0.23	1309648	95.23	70	120	
Ge	72	1	No Gas	4093584	1.51	4382507	93.41	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4447284	0.45	4742062	93.78	70	120	
Bi	209	1	No Gas	3655357	0.83	3878294	94.25	70	120	

Sample Report

Sample Table

Sample Name	LCS-212449
Data File Name	045SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:32:57-05:00
Sample Type	Sample
Dilution	1
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	61.465	61.465	2.69	1128284	0.01	2000	
Be	9	1	No Gas	49.123	49.123	2.12	236546	0.02	2000	
V	51	2	He	49.693	49.693	2.80	499413	0.01	2000	
Cr	52	2	He	50.034	50.034	2.14	569548	0.01	2000	
Fe	56	2	He	4969.500	4969.500	2.29	53369744	0.01	200000	
Se	78	2	He	48.147	48.147	2.74	8353	0.58	2000	
As	75	2	He	49.802	49.802	2.60	103125	0.05	2000	
Ca	44	2	He	5002.020	5002.020	2.06	316388	1.58	200000	
Na	23	2	He	5073.741	5073.741	2.48	8214828	0.06	200000	
Mg	24	2	He	5069.093	5069.093	2.18	5052748	0.10	200000	
K	39	2	He	5028.357	5028.357	1.90	6085217	0.08	200000	
Mn	55	2	He	50.273	50.273	2.67	419075	0.01	2000	
Co	59	2	He	50.245	50.245	1.66	889918	0.01	2000	
Ni	60	2	He	50.354	50.354	2.47	229696	0.02	2000	
Cu	63	2	He	50.621	50.621	2.59	624596	0.01	2000	
Zn	66	2	He	50.977	50.977	3.17	126779	0.04	2000	
Al	27	2	He	73.559	73.559	3.91	48437	0.15	2000	
B	11	1	No Gas	325.477	325.477	2.83	1043230	0.03	2000	
Al	27	1	No Gas	71.044	71.044	4.18	1708178	0.00	2000	
Si	28	1	No Gas	402.847	402.847	4.50	4761061	0.01	2000	
Ag	107	1	No Gas	49.531	49.531	2.78	1474036	0.00	2000	
Cd	111	1	No Gas	48.193	48.193	2.35	278348	0.02	2000	
Sr	88	1	No Gas	68.239	68.239	3.00	3749957	0.00	2000	
Mo	95	1	No Gas	48.778	48.778	2.81	533002	0.01	2000	
Sn	118	1	No Gas	68.159	68.159	2.14	1217014	0.01	2000	
Sb	121	1	No Gas	49.004	49.004	1.92	1233296	0.00	2000	
Ba	137	1	No Gas	49.030	49.030	2.93	423867	0.01	2000	
Tl	205	1	No Gas	46.425	46.425	2.94	2243833	0.00	2000	
Tl	203	1	No Gas	45.374	45.374	3.24	925780	0.00	2000	
Pb	208	1	No Gas	49.255	49.255	2.79	3274084	0.00	2000	
U	238	1	No Gas	64.110	64.110	2.48	4291866	0.00	2000	
Ca	43	2	He	5118.220	5118.220	4.23	18766	27.27	200000	
Sb	121	2	He	49.569	49.569	2.07	592994	0.01	2000	
Ti	47	2	He	87.786	87.786	2.76	32863	0.27	2000	
Cu	63	1	No Gas	50.123	50.123	2.51	1164365	0.00	2000	
Ca	44	1	No Gas	4971.986	4971.986	3.14	4151121	0.12	200000	
Zn	66	1	No Gas	50.218	50.218	1.79	344740	0.01	2000	
Se	82	1	No Gas	48.122	48.122	4.85	18950	0.25	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1192224	0.31	1318920	90.39	70	120	
Ge	72	2	He	1219661	1.62	1309648	93.13	70	120	
Ge	72	1	No Gas	4055263	1.02	4382507	92.53	70	120	

Sample Report

In	115	1	No Gas	4372780	1.12	4742062	92.21	70	120	
Bi	209	1	No Gas	3574579	0.18	3878294	92.17	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01SD
Data File Name	047SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:37:46-05:00
Sample Type	Sample
Dilution	250
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.093	23.197	2.79	74301	0.00	2000	
Be	9	1	No Gas	-0.001	-0.139	-283.41	43	0.00	2000	
V	51	2	He	0.018	4.625	48.12	3583	0.00	2000	
Cr	52	2	He	-0.388	-97.118	-5.10	8606	0.00	2000	
Fe	56	2	He	0.415	103.662	9.67	22609	0.00	200000	
Se	78	2	He	0.126	31.487	123.50	253	0.05	2000	
As	75	2	He	0.003	0.697	196.20	373	0.00	2000	
Ca	44	2	He	75.286	18821.430	4.60	6952	1.08	200000	
Na	23	2	He	2219.324	554830.937	1.58	3784258	0.06	200000	
Mg	24	2	He	43.877	10969.330	0.85	45791	0.10	200000	
K	39	2	He	14.066	3516.550	6.32	167577	0.01	200000	
Mn	55	2	He	0.202	50.404	4.43	2430	0.01	2000	
Co	59	2	He	-0.001	-0.217	-191.48	87	0.00	2000	
Ni	60	2	He	-0.009	-2.246	-146.92	480	0.00	2000	
Cu	63	2	He	0.018	4.507	23.51	1920	0.00	2000	
Zn	66	2	He	0.098	24.383	64.35	1747	0.01	2000	
Al	27	2	He	-1.294	-323.409	-17.95	1520	-0.09	2000	
B	11	1	No Gas	-0.282	-70.500	-40.40	18529	0.00	2000	
Al	27	1	No Gas	-1.435	-358.870	-1.98	53593	0.00	2000	
Si	28	1	No Gas	51.001	12750.236	4.91	1456722	0.00	2000	
Ag	107	1	No Gas	-0.038	-9.468	-2.56	1017	0.00	2000	
Cd	111	1	No Gas	-0.002	-0.381	-424.19	16	-0.01	2000	
Sr	88	1	No Gas	1.708	426.901	1.47	99186	0.00	2000	
Mo	95	1	No Gas	0.014	3.560	24.02	327	0.00	2000	
Sn	118	1	No Gas	-0.057	-14.296	-18.85	3947	0.00	2000	
Sb	121	1	No Gas	0.057	14.212	9.47	2230	0.00	2000	
Ba	137	1	No Gas	0.921	230.320	3.12	8473	0.01	2000	
Tl	205	1	No Gas	-0.001	-0.231	-126.93	787	0.00	2000	
Tl	203	1	No Gas	0.001	0.266	265.16	357	0.00	2000	
Pb	208	1	No Gas	-0.017	-4.344	-22.11	2880	0.00	2000	
U	238	1	No Gas	0.000	-0.107	-64.89	600	0.00	2000	
Ca	43	2	He	63.948	15987.075	8.36	280	22.84	200000	
Sb	121	2	He	0.058	14.492	19.08	1083	0.01	2000	
Ti	47	2	He	-0.124	-30.957	-24.20	13	-0.93	2000	
Cu	63	1	No Gas	0.038	9.449	16.44	4351	0.00	2000	
Ca	44	1	No Gas	57.439	14359.739	3.53	162947	0.04	200000	
Zn	66	1	No Gas	0.089	22.282	41.38	4417	0.00	2000	
Se	82	1	No Gas	-0.016	-4.119	-1038.10	717	0.00	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1213252	0.24	1318920	91.99	70	120	
Ge	72	2	He	1258517	0.21	1309648	96.10	70	120	
Ge	72	1	No Gas	4150335	0.31	4382507	94.70	70	120	

Sample Report

In	115	1	No Gas	4480652	0.76	4742062	94.49	70	120	
Bi	209	1	No Gas	3699097	0.30	3878294	95.38	70	120	

Sample Report

Sample Table

Sample Name	HS24051276-01PDS
Data File Name	048SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:40:10-05:00
Sample Type	Sample
Dilution	50
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	0.671	33.534	10.60	79588	0.00	2000	
Be	9	1	No Gas	106.940	5347.020	6.58	493323	0.02	2000	
V	51	2	He	101.371	5068.552	2.89	1031257	0.01	2000	
Cr	52	2	He	100.185	5009.271	1.88	1145435	0.01	2000	
Fe	56	2	He	9939.803	496990.128	2.27	108416648	0.01	200000	
Se	78	2	He	100.701	5035.058	0.60	17501	0.58	2000	
As	75	2	He	100.759	5037.945	2.07	211564	0.05	2000	
Ca	44	2	He	10289.796	514489.809	3.09	658847	1.56	200000	
Na	23	2	He	20729.753	1036487.649	2.20	33682474	0.06	200000	
Mg	24	2	He	10312.812	515640.623	2.40	10440017	0.10	200000	
K	39	2	He	10190.335	509516.755	2.91	12372429	0.08	200000	
Mn	55	2	He	101.296	5064.788	2.23	857071	0.01	2000	
Co	59	2	He	101.004	5050.182	3.59	1816694	0.01	2000	
Ni	60	2	He	101.663	5083.145	3.24	470493	0.02	2000	
Cu	63	2	He	101.290	5064.522	3.53	1267718	0.01	2000	
Zn	66	2	He	101.965	5098.270	1.90	256111	0.04	2000	
Al	27	2	He	98.404	4920.225	1.84	65043	0.15	2000	
B	11	1	No Gas	-0.028	-1.416	-1197.34	18213	0.00	2000	
Al	27	1	No Gas	104.858	5242.891	9.06	2394387	0.00	2000	
Si	28	1	No Gas	247.253	12362.646	10.04	3172787	0.01	2000	
Ag	107	1	No Gas	106.231	5311.563	9.89	3015737	0.00	2000	
Cd	111	1	No Gas	107.631	5381.560	9.73	593458	0.02	2000	
Sr	88	1	No Gas	8.953	447.668	9.73	472251	0.00	2000	
Mo	95	1	No Gas	105.850	5292.520	10.09	1103847	0.01	2000	
Sn	118	1	No Gas	0.008	0.409	330.71	4805	0.00	2000	
Sb	121	1	No Gas	104.351	5217.538	8.12	2534566	0.00	2000	
Ba	137	1	No Gas	112.139	5606.953	9.30	925408	0.01	2000	
Tl	205	1	No Gas	106.648	5332.393	8.81	4915481	0.00	2000	
Tl	203	1	No Gas	106.278	5313.914	8.45	2068005	0.01	2000	
Pb	208	1	No Gas	106.341	5317.065	8.83	6737222	0.00	2000	
U	238	1	No Gas	0.002	0.078	34.85	683	0.00	2000	
Ca	43	2	He	10104.377	505218.847	4.65	37594	26.88	200000	
Sb	121	2	He	97.226	4861.323	2.48	1181006	0.01	2000	
Ti	47	2	He	100.183	5009.156	3.85	38089	0.26	2000	
Cu	63	1	No Gas	108.033	5401.639	8.30	2418773	0.00	2000	
Ca	44	1	No Gas	11185.188	559259.379	7.89	8881376	0.13	200000	
Zn	66	1	No Gas	107.489	5374.433	8.13	708264	0.02	2000	
Se	82	1	No Gas	106.269	5313.469	9.46	39562	0.27	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1144401	4.59	1318920	86.77	70	120	
Ge	72	2	He	1238705	1.02	1309648	94.58	70	120	
Ge	72	1	No Gas	3928004	6.39	4382507	89.63	70	120	

Sample Report

In	115	1	No Gas	4194943	7.79	4742062	88.46	70	120	
Bi	209	1	No Gas	3423975	7.44	3878294	88.29	70	120	

Sample Report

Sample Table

Sample Name	HS24051277-01
Data File Name	049SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:42:36-05:00
Sample Type	Sample
Dilution	20
Comment	TW DOD B 212449
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.178	43.565	2.61	108656	0.00	2000	
Be	9	1	No Gas	0.012	0.242	25.58	103	0.01	2000	
V	51	2	He	-0.026	-0.521	-17.73	3110	0.00	2000	
Cr	52	2	He	-0.298	-5.956	-13.00	9603	0.00	2000	
Fe	56	2	He	23.089	461.772	1.60	272669	0.01	200000	
Se	78	2	He	0.048	0.962	153.87	238	0.02	2000	
As	75	2	He	0.053	1.057	49.35	478	0.01	2000	
Ca	44	2	He	3139.168	62783.361	1.70	204803	1.53	200000	
Na	23	2	He	13865.834	277316.682	0.76	22837688	0.06	200000	
Mg	24	2	He	2330.125	46602.503	1.04	2387049	0.10	200000	
K	39	2	He	67.323	1346.468	2.34	231472	0.03	200000	
Mn	55	2	He	20.347	406.949	1.59	174735	0.01	2000	
Co	59	2	He	0.186	3.723	4.13	3491	0.01	2000	
Ni	60	2	He	0.472	9.437	1.40	2727	0.02	2000	
Cu	63	2	He	0.216	4.318	2.12	4414	0.00	2000	
Zn	66	2	He	0.654	13.085	19.47	3147	0.02	2000	
Al	27	2	He	4.582	91.635	39.84	5300	0.09	2000	
B	11	1	No Gas	1.106	22.112	7.49	22530	0.00	2000	
Al	27	1	No Gas	3.828	76.556	7.59	175392	0.00	2000	
Si	28	1	No Gas	969.671	19393.424	2.78	10303119	0.01	2000	
Ag	107	1	No Gas	-0.038	-0.753	-9.30	1010	0.00	2000	
Cd	111	1	No Gas	-0.001	-0.022	-405.55	18	-0.01	2000	
Sr	88	1	No Gas	61.624	1232.483	2.21	3426047	0.00	2000	
Mo	95	1	No Gas	0.141	2.823	26.65	1723	0.01	2000	
Sn	118	1	No Gas	-0.082	-1.640	-3.71	3451	0.00	2000	
Sb	121	1	No Gas	0.452	9.041	21.21	12306	0.00	2000	
Ba	137	1	No Gas	16.628	332.565	1.79	145626	0.01	2000	
Tl	205	1	No Gas	0.005	0.101	46.44	1057	0.00	2000	
Tl	203	1	No Gas	0.006	0.124	43.76	453	0.00	2000	
Pb	208	1	No Gas	-0.004	-0.084	-129.35	3687	0.00	2000	
U	238	1	No Gas	0.128	2.562	1.34	9250	0.00	2000	
Ca	43	2	He	3265.427	65308.547	2.02	12319	26.51	200000	
Sb	121	2	He	0.300	6.008	7.21	4057	0.01	2000	
Ti	47	2	He	-0.063	-1.260	-63.29	37	-0.17	2000	
Cu	63	1	No Gas	0.309	6.176	5.59	10698	0.00	2000	
Ca	44	1	No Gas	3155.341	63106.817	2.51	2718876	0.12	200000	
Zn	66	1	No Gas	0.733	14.651	0.99	8826	0.01	2000	
Se	82	1	No Gas	0.265	5.292	133.00	820	0.03	2000	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1189848	0.39	1318920	90.21	70	120	
Ge	72	2	He	1253008	1.00	1309648	95.68	70	120	
Ge	72	1	No Gas	4120764	0.68	4382507	94.03	70	120	

Sample Report

In	115	1	No Gas	4422814	0.41	4742062	93.27	70	120	
Bi	209	1	No Gas	3600187	1.07	3878294	92.83	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	051_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:50:26-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	97.558	3.125	1668799	3.19	100	97.6	90	110	
Be	9	1	No Gas	101.672	2.701	467116	2.89	100	101.7	90	110	
V	51	2	He	99.371	0.181	993141	1.12	100	99.4	90	110	
Cr	52	2	He	100.048	0.757	1123623	1.40	100	100.0	90	110	
Fe	56	2	He	9964.530	0.755	106764415	1.93	10000	99.6	90	110	
Se	78	2	He	96.621	1.382	16503	2.48	100	96.6	90	110	
As	75	2	He	99.922	0.752	206107	1.98	100	99.9	90	110	
Ca	44	2	He	9933.200	0.930	624919	1.93	10000	99.3	90	110	
Na	23	2	He	10153.363	1.090	16271526	1.29	10000	101.5	90	110	
Mg	24	2	He	10155.112	1.393	10098954	2.10	10000	101.6	90	110	
K	39	2	He	10063.160	0.604	12004739	1.62	10000	100.6	90	110	
Mn	55	2	He	99.461	0.960	826693	2.00	100	99.5	90	110	
Co	59	2	He	99.785	0.784	1763247	1.65	100	99.8	90	110	
Ni	60	2	He	99.769	1.520	453651	2.46	100	99.8	90	110	
Cu	63	2	He	100.066	1.197	1230474	2.32	100	100.1	90	110	
Zn	66	2	He	99.163	2.214	244754	3.43	100	99.2	90	110	
Al	27	2	He	101.045	1.569	65546	2.39	100	101.0	90	110	
B	11	1	No Gas	484.036	2.043	1471509	2.22	500	96.8	90	110	
Al	27	1	No Gas	99.156	1.434	2313168	2.39	100	99.2	90	110	
Si	28	1	No Gas	494.126	0.980	5537370	1.53	5000	9.9	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	100.852	3.534	2945610	3.60	100	100.9	90	110	
Cd	111	1	No Gas	99.332	2.459	563417	2.61	100	99.3	90	110	
Sr	88	1	No Gas	101.353	2.070	5468669	1.83	100	101.4	90	110	
Mo	95	1	No Gas	99.660	2.084	1069344	2.09	100	99.7	90	110	
Sn	118	1	No Gas	101.002	2.020	1768698	1.68	100	101.0	90	110	
Sb	121	1	No Gas	99.358	1.489	2459624	1.35	100	99.4	90	110	
Ba	137	1	No Gas	100.780	2.330	855247	1.14	100	100.8	90	110	
Tl	205	1	No Gas	99.258	2.300	4754334	2.65	100	99.3	90	110	
Tl	203	1	No Gas	99.225	1.922	2006322	2.13	100	99.2	90	110	
Pb	208	1	No Gas	99.882	2.042	6577133	2.44	100	99.9	90	110	
U	238	1	No Gas	96.507	1.107	6403653	1.65	100	96.5	90	110	
Ca	43	2	He	10075.134	1.722	36826	1.02	10000	100.8	90	110	
Sb	121	2	He	97.855	1.736	1167596	1.86	100	97.9	90	110	
Ti	47	2	He	101.280	1.262	37825	2.31	100	101.3	90	110	
Cu	63	1	No Gas	100.744	2.063	2299631	2.88	100	100.7	90	110	
Se	82	1	No Gas	100.019	3.312	38021	4.28	100	100.0	90	110	
Zr	90	1	No Gas	99.134	2.288	3399159	2.09	100	99.1	90	110	
Zr	90	2	He	96.755	1.350	1465192	1.08	100	96.8	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1137528	0.22	1318920	86.25	70	120	
Ge	72	2	He	1216661	1.22	1309648	92.90	70	120	
Ge	72	1	No Gas	3989823	1.11	4382507	91.04	70	120	
In	115	1	No Gas	4294161	1.63	4742062	90.55	70	120	
Bi	209	1	No Gas	3543080	0.87	3878294	91.36	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	052_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T12:52:52-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.073	39.9	71358	1.4	0.5	
Be	9	1	No Gas	0.008	40.5	83	19.3	0.5	
V	51	2	He	-0.045	-44.0	2880	5.9	2.5	
Cr	52	2	He	-0.194	-22.0	10661	4.2	2.5	
Fe	56	2	He	1.162	9.5	30377	3.7	100	
Se	78	2	He	0.074	210.6	239	9.8	2	
As	75	2	He	0.005	337.3	371	8.1	2.5	
Ca	44	2	He	1.608	126.0	2137	5.9	100	
Na	23	2	He	37.573	5.1	193186	1.1	100	
Mg	24	2	He	0.589	18.3	1243	7.5	100	
K	39	2	He	9.258	24.6	159023	0.5	100	
Mn	55	2	He	0.026	41.6	910	9.6	2.5	
Co	59	2	He	0.001	300.1	123	55.2	2.5	
Ni	60	2	He	0.060	14.2	790	5.5	2.5	
Cu	63	2	He	0.040	31.7	2164	6.9	2	
Zn	66	2	He	0.201	39.0	1974	8.9	2.5	
Al	27	2	He	1.657	23.2	3374	6.7	5	
B	11	1	No Gas	2.313	18.0	25902	5.5	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	1.302	4.3	115315	0.8	5	
Si	28	1	No Gas	2.162	35.6	963287	0.2	10	
Ag	107	1	No Gas	-0.027	-10.8	1340	6.1	2.5	
Cd	111	1	No Gas	-0.001	-512.8	22	75.4	1	
Sr	88	1	No Gas	0.023	4.5	4341	0.8	2.5	
Mo	95	1	No Gas	0.062	13.0	847	10.2	2.5	
Sn	118	1	No Gas	0.047	46.8	5775	6.3	5	
Sb	121	1	No Gas	0.312	18.8	8626	17.5	2.5	
Ba	137	1	No Gas	0.041	17.3	670	9.8	2.5	
Tl	205	1	No Gas	0.008	32.1	1177	10.6	1	
Tl	203	1	No Gas	0.007	80.0	477	25.6	1	
Pb	208	1	No Gas	-0.003	-248.4	3774	12.4	2.5	
U	238	1	No Gas	0.003	15.7	833	3.7	2.5	
Ca	43	2	He	15.771	53.2	97	33.3	100	
Sb	121	2	He	0.224	7.3	3077	6.4	2.5	
Ti	47	2	He	-0.141	-10.8	7	86.6	2.5	
Cu	63	1	No Gas	0.037	28.5	4257	6.0	2.5	
Se	82	1	No Gas	0.117	260.5	753	15.3	2	
Zr	90	1	No Gas	0.260	21.1	10548	18.1	2.5	
Zr	90	2	He	0.150	10.0	3974	5.9	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1170690	0.71	1318920	88.76	70	120	
Ge	72	2	He	1237741	1.23	1309648	94.51	70	120	
Ge	72	1	No Gas	4069424	0.64	4382507	92.86	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	4427892	0.53	4742062	93.37	70	120	
Bi	209	1	No Gas	3590077	0.52	3878294	92.57	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	273_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:42:12-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Li	7	1	No Gas	93.944	2.834	1380051	2.60	100	93.9	90	110	
Be	9	1	No Gas	95.850	3.021	404014	2.90	100	95.9	90	110	
V	51	2	He	96.414	1.660	1114314	2.13	100	96.4	90	110	
Cr	52	2	He	96.638	1.578	1265983	2.17	100	96.6	90	110	
Fe	56	2	He	9671.467	1.693	119244032	2.10	10000	96.7	90	110	
Se	78	2	He	94.042	1.335	17420	1.94	100	94.0	90	110	
As	75	2	He	95.016	1.621	222687	2.17	100	95.0	90	110	
Ca	44	2	He	9418.874	0.771	661158	1.00	10000	94.2	90	110	
Na	23	2	He	9562.020	2.462	18117623	2.58	10000	95.6	90	110	
Mg	24	2	He	9510.618	1.519	11025925	1.89	10000	95.1	90	110	
K	39	2	He	9408.353	0.682	12411497	0.94	10000	94.1	90	110	
Mn	55	2	He	96.158	1.712	913880	1.90	100	96.2	90	110	
Co	59	2	He	97.779	1.193	2025456	1.67	100	97.8	90	110	
Ni	60	2	He	98.084	1.071	522317	1.51	100	98.1	90	110	
Cu	63	2	He	98.083	1.317	1418955	1.76	100	98.1	90	110	
Zn	66	2	He	97.154	1.490	277836	2.07	100	97.2	90	110	
Al	27	2	He	97.056	1.397	70403	1.49	100	97.1	90	110	
B	11	1	No Gas	473.795	2.105	1311656	2.00	500	94.8	90	110	
Al	27	1	No Gas	98.393	2.665	2215427	2.32	100	98.4	90	110	
Si	28	1	No Gas	464.508	2.811	4746151	2.22	5000	9.3	90	110	CCV Main CR1-2 Failed
Ag	107	1	No Gas	95.947	2.101	3310239	1.82	100	95.9	90	110	
Cd	111	1	No Gas	95.613	2.335	656416	2.49	100	95.6	90	110	
Sr	88	1	No Gas	94.269	2.337	5981377	2.28	100	94.3	90	110	
Mo	95	1	No Gas	93.770	2.189	1181153	1.93	100	93.8	90	110	
Sn	118	1	No Gas	97.110	1.620	2082165	1.93	100	97.1	90	110	
Sb	121	1	No Gas	101.304	2.209	2962645	2.02	100	101.3	90	110	
Ba	137	1	No Gas	95.592	1.830	1005028	1.85	100	95.6	90	110	
Tl	205	1	No Gas	94.551	3.068	6159735	2.95	100	94.6	90	110	
Tl	203	1	No Gas	94.344	2.088	2592031	1.97	100	94.3	90	110	
Pb	208	1	No Gas	97.152	1.896	8708055	1.75	100	97.2	90	110	
U	238	1	No Gas	97.433	3.034	8648791	2.85	100	97.4	90	110	
Ca	43	2	He	9558.123	2.289	39476	3.03	10000	95.6	90	110	
Sb	121	2	He	98.676	2.250	1356147	2.55	100	98.7	90	110	
Ti	47	2	He	95.717	2.060	40473	2.80	100	95.7	90	110	
Cu	63	1	No Gas	96.979	2.320	2230744	2.17	100	97.0	90	110	
Se	82	1	No Gas	97.487	2.445	40116	2.23	100	97.5	90	110	
Zr	90	1	No Gas	89.097	2.350	3563478	2.25	100	89.1	90	110	CCV Main CR1-2 Failed
Zr	90	2	He	91.744	1.673	1582053	2.09	100	91.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	966015	0.45	1005681	96.06	70	120	
Ge	72	2	He	1412804	0.80	1291478	109.39	70	120	
Ge	72	1	No Gas	4351902	0.26	4054511	107.33	70	120	
In	115	1	No Gas	5278476	0.61	4760341	110.88	70	120	
Bi	209	1	No Gas	4865648	0.19	4254344	114.37	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	274_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:44:37-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.025	272.3	59301	0.7	0.5	
Be	9	1	No Gas	0.012	3.7	83	3.5	0.5	
V	51	2	He	-0.267	-4.1	4221	3.6	2.5	
Cr	52	2	He	-0.398	-7.4	9260	3.4	2.5	
Fe	56	2	He	1.063	1.9	33681	2.2	100	
Se	78	2	He	-0.130	-70.5	215	6.5	2	
As	75	2	He	-0.064	-33.0	409	12.1	2.5	
Ca	44	2	He	-4.706	-23.1	1440	4.9	100	
Na	23	2	He	91.399	3.4	366945	0.3	100	
Mg	24	2	He	0.361	6.4	1807	1.2	100	
K	39	2	He	-6.838	-33.8	151820	2.1	100	
Mn	55	2	He	-0.015	-53.5	863	8.4	2.5	
Co	59	2	He	0.005	34.7	190	19.0	2.5	
Ni	60	2	He	0.024	130.4	703	23.5	2.5	
Cu	63	2	He	-0.003	-152.5	1820	4.1	2	
Zn	66	2	He	0.074	40.3	2104	3.9	2.5	
Al	27	2	He	-0.669	-31.6	2224	8.2	5	
B	11	1	No Gas	3.378	8.8	21790	4.8	0.5	CCB Main CR1 Failed
Al	27	1	No Gas	-0.779	-8.2	69592	2.3	5	
Si	28	1	No Gas	-13.598	-2.2	579062	0.2	10	
Ag	107	1	No Gas	-0.012	-28.8	580	20.9	2.5	
Cd	111	1	No Gas	0.007	62.0	35	84.6	1	
Sr	88	1	No Gas	-0.003	-24.9	3254	0.9	2.5	
Mo	95	1	No Gas	0.063	21.0	1040	16.4	2.5	
Sn	118	1	No Gas	0.031	25.3	5335	2.5	5	
Sb	121	1	No Gas	0.138	22.0	5168	18.0	2.5	
Ba	137	1	No Gas	0.001	1452.9	537	15.6	2.5	
Tl	205	1	No Gas	0.044	50.2	3434	42.9	1	
Tl	203	1	No Gas	0.045	43.1	1473	37.3	1	
Pb	208	1	No Gas	0.004	29.9	2817	3.6	2.5	
U	238	1	No Gas	0.010	30.7	1573	17.4	2.5	
Ca	43	2	He	10.491	70.2	100	30.0	100	
Sb	121	2	He	0.091	2.4	1837	1.7	2.5	
Ti	47	2	He	-0.012	-458.1	13	173.2	2.5	
Cu	63	1	No Gas	0.014	66.0	2874	7.6	2.5	
Se	82	1	No Gas	-0.313	-24.4	620	4.8	2	
Zr	90	1	No Gas	0.171	22.1	9040	17.1	2.5	
Zr	90	2	He	0.102	8.1	3737	5.3	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1014390	1.04	1005681	100.87	70	120	
Ge	72	2	He	1447028	1.45	1291478	112.04	70	120	
Ge	72	1	No Gas	4503387	0.32	4054511	111.07	70	120	

Continuing Calibration Blank (CCB) Report

In	115	1	No Gas	5376924	0.62	4760341	112.95	70	120	
Bi	209	1	No Gas	4969473	0.44	4254344	116.81	70	120	

Sample Report

Sample Table

Sample Name	LLCCV2
Data File Name	276LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:49:26-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref FileName	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	2.006	2.006	4.05	88207	0.00	2	
Be	9	1	No Gas	1.902	1.902	3.53	8403	0.02	2	
V	51	2	He	1.802	1.802	2.12	29095	0.01	2	
Cr	52	2	He	1.807	1.807	3.93	39239	0.00	2	
Fe	56	2	He	197.128	197.128	1.38	2556756	0.01	200	
Se	78	2	He	1.697	1.697	6.40	568	0.30	2	
As	75	2	He	1.872	1.872	1.63	5140	0.04	2	
Ca	44	2	He	185.675	185.675	8.38	15382	1.21	200	
Na	23	2	He	260.684	260.684	2.33	705227	0.04	200	NewName Main CR1 Failed
Mg	24	2	He	197.330	197.330	2.78	240125	0.08	200	
K	39	2	He	183.680	183.680	1.14	413696	0.04	200	
Mn	55	2	He	1.911	1.911	5.28	19955	0.01	2	
Co	59	2	He	2.010	2.010	1.26	43526	0.00	2	
Ni	60	2	He	2.011	2.011	5.12	11749	0.02	2	
Cu	63	2	He	1.958	1.958	0.81	31413	0.01	2	
Zn	66	2	He	1.925	1.925	3.10	7632	0.03	2	
Al	27	2	He	1.694	1.694	17.06	3987	0.04	2	
B	11	1	No Gas	10.771	10.771	2.96	42878	0.03	10	
Al	27	1	No Gas	1.676	1.676	7.35	123664	0.00	2	
Si	28	1	No Gas	-5.633	-5.633	-19.14	646322	0.00	10	NewName Main CR1 Failed
Ag	107	1	No Gas	2.004	2.004	1.70	72325	0.00	2	
Cd	111	1	No Gas	1.971	1.971	3.50	13946	0.01	2	
Sr	88	1	No Gas	1.916	1.916	0.52	128822	0.00	2	
Mo	95	1	No Gas	1.936	1.936	2.20	25394	0.01	2	
Sn	118	1	No Gas	1.985	1.985	2.86	48546	0.00	2	
Sb	121	1	No Gas	2.116	2.116	1.30	64517	0.00	2	
Ba	137	1	No Gas	1.964	1.964	2.00	21832	0.01	2	
Tl	205	1	No Gas	1.865	1.865	0.34	125995	0.00	2	
Tl	203	1	No Gas	1.885	1.885	1.24	53691	0.00	2	
Pb	208	1	No Gas	1.973	1.973	0.30	185175	0.00	2	
U	238	1	No Gas	1.887	1.887	0.67	173741	0.00	2	
Ca	43	2	He	214.326	214.326	17.64	980	21.87	200	
Sb	121	2	He	2.036	2.036	0.98	29747	0.01	2	
Ti	47	2	He	1.906	1.906	17.73	860	0.22	200	
Cu	63	1	No Gas	2.057	2.057	0.93	51072	0.00	2	
Se	82	1	No Gas	2.170	2.170	23.04	1647	0.13	2	
Zr	90	1	No Gas	1.647	1.647	1.38	70011	0.00	2	
Zr	90	2	He	1.719	1.719	4.37	32870	0.01	2	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1009529	0.96	1005681	100.38	70	120	
Ge	72	2	He	1474472	0.61	1291478	114.17	70	120	
Ge	72	1	No Gas	4469740	0.87	4054511	110.24	70	120	
In	115	1	No Gas	5446459	1.02	4760341	114.41	70	120	
Bi	209	1	No Gas	5026581	0.77	4254344	118.15	70	120	

Sample Report

Sample Table

Sample Name	LLCCV5
Data File Name	277LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:51:51-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref FileName	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Li	7	1	No Gas	4.895	4.895	1.48	129184	0.00	5	
Be	9	1	No Gas	4.796	4.796	2.03	20899	0.02	5	
V	51	2	He	4.758	4.758	1.40	64283	0.01	5	
Cr	52	2	He	4.779	4.779	1.70	79139	0.01	5	
Fe	56	2	He	494.835	494.835	0.29	6363284	0.01	500	
Se	78	2	He	4.893	4.893	0.65	1173	0.42	5	
As	75	2	He	4.810	4.810	0.61	12263	0.04	5	
Ca	44	2	He	484.806	484.806	2.78	37100	1.31	500	
Na	23	2	He	560.731	560.731	1.49	1287693	0.04	500	
Mg	24	2	He	495.316	495.316	1.41	598419	0.08	500	
K	39	2	He	480.555	480.555	0.46	814249	0.06	500	
Mn	55	2	He	4.839	4.839	1.38	48783	0.01	5	
Co	59	2	He	5.050	5.050	2.38	108861	0.00	5	
Ni	60	2	He	5.120	5.120	1.49	28904	0.02	5	
Cu	63	2	He	5.061	5.061	1.56	77934	0.01	5	
Zn	66	2	He	4.965	4.965	2.77	16587	0.03	5	
Al	27	2	He	5.052	5.052	7.69	6412	0.08	5	
B	11	1	No Gas	25.412	25.412	1.22	83854	0.03	25	
Al	27	1	No Gas	4.735	4.735	4.80	193897	0.00	5	
Si	28	1	No Gas	7.351	7.351	9.11	771777	0.00	25	NewName2 Main CR1 Failed
Ag	107	1	No Gas	4.997	4.997	2.33	178737	0.00	5	
Cd	111	1	No Gas	4.873	4.873	3.18	34480	0.01	5	
Sr	88	1	No Gas	4.758	4.758	2.14	314563	0.00	5	
Mo	95	1	No Gas	4.754	4.754	1.02	61979	0.01	5	
Sn	118	1	No Gas	4.863	4.863	2.15	112007	0.00	5	
Sb	121	1	No Gas	5.176	5.176	3.06	158172	0.00	5	
Ba	137	1	No Gas	4.798	4.798	3.72	52532	0.01	5	
Tl	205	1	No Gas	4.736	4.736	0.92	322207	0.00	5	
Tl	203	1	No Gas	4.726	4.726	0.80	135592	0.00	5	
Pb	208	1	No Gas	4.891	4.891	0.46	459492	0.00	5	
U	238	1	No Gas	4.765	4.765	2.32	441740	0.00	5	
Ca	43	2	He	507.690	507.690	2.46	2234	22.73	500	
Sb	121	2	He	5.130	5.130	0.66	73839	0.01	5	
Ti	47	2	He	4.716	4.716	6.90	2090	0.23	5	
Cu	63	1	No Gas	5.046	5.046	2.40	122968	0.00	5	
Se	82	1	No Gas	4.322	4.322	12.37	2567	0.17	5	
Zr	90	1	No Gas	4.333	4.333	2.65	180676	0.00	5	
Zr	90	2	He	4.577	4.577	0.45	83943	0.01	5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	997412	0.39	1005681	99.18	70	120	
Ge	72	2	He	1469073	1.00	1291478	113.75	70	120	
Ge	72	1	No Gas	4520475	1.01	4054511	111.49	70	120	
In	115	1	No Gas	5443169	0.85	4760341	114.34	70	120	
Bi	209	1	No Gas	5073336	1.12	4254344	119.25	70	120	

Interference Check Solution A (ICS-A) Report

Sample Table

Sample Name	ICSA
Data File Name	278ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:54:15-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Li	7	1	No Gas	0.540	6.4	52573	0.7	0	ICSA Main CR1 Failed
Be	9	1	No Gas	0.033	21.7	138	18.5	0	ICSA Main CR1 Failed
V	51	2	He	-0.083	-31.2	6181	4.4	0	ICSA Main CR1 Failed
Cr	52	2	He	0.684	2.8	22899	1.3	0	ICSA Main CR1 Failed
Fe	56	2	He	99810.794	1.7	1221604728	0.9	0	
Se	78	2	He	-0.006	-726.7	231	2.5	0	ICSA Main CR1 Failed
As	75	2	He	0.315	6.9	1277	3.8	0	ICSA Main CR1 Failed
Ca	44	2	He	97983.059	2.5	6812201	1.5	0	
Na	23	2	He	100221.666	2.9	186757724	1.8	0	
Mg	24	2	He	99159.092	1.5	114121175	0.4	0	
K	39	2	He	99177.415	1.5	128413355	0.6	0	
Mn	55	2	He	1.552	1.2	15602	2.0	0	ICSA Main CR1 Failed
Co	59	2	He	0.994	5.6	20519	4.6	0	ICSA Main CR1 Failed
Ni	60	2	He	1.102	4.7	6378	3.5	0	ICSA Main CR1 Failed
Cu	63	2	He	0.769	2.1	12833	3.0	0	ICSA Main CR1 Failed
Zn	66	2	He	3.337	5.4	11241	4.1	0	ICSA Main CR1 Failed
Al	27	2	He	98989.865	2.2	68622984	1.0	0	
B	11	1	No Gas	3.736	9.2	17916	4.0	0	
Al	27	1	No Gas	93897.271	2.3	1933309891	1.4	0	
Si	28	1	No Gas	35.659	1.7	941963	1.2	0	
Ag	107	1	No Gas	0.043	13.5	2280	8.0	0	ICSA Main CR1 Failed
Cd	111	1	No Gas	0.728	7.3	4627	7.2	0	ICSA Main CR1 Failed
Sr	88	1	No Gas	0.858	3.9	53630	3.9	0	ICSA Main CR1 Failed
Mo	95	1	No Gas	1985.692	2.9	23210478	3.1	0	
Sn	118	1	No Gas	0.372	13.9	11649	9.0	0	ICSA Main CR1 Failed
Sb	121	1	No Gas	0.124	3.3	4364	2.1	0	ICSA Main CR1 Failed
Ba	137	1	No Gas	0.588	4.6	6218	4.4	0	ICSA Main CR1 Failed
Tl	205	1	No Gas	0.008	49.0	913	25.1	0	ICSA Main CR1 Failed
Tl	203	1	No Gas	0.010	30.6	410	17.1	0	ICSA Main CR1 Failed
Pb	208	1	No Gas	0.943	0.9	76743	0.4	0	ICSA Main CR1 Failed
U	238	1	No Gas	0.009	8.7	1287	4.7	0	ICSA Main CR1 Failed
Ca	43	2	He	94778.669	2.4	388102	1.4	0	
Sb	121	2	He	0.110	8.3	2030	6.4	0	ICSA Main CR1 Failed
Ti	47	2	He	1989.944	2.2	834923	1.0	0	
Se	82	1	No Gas	-0.157	-117.2	630	12.0	0	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	796659	0.45	1005681	79.22	70	120	
Ge	72	2	He	1402874	1.19	1291478	108.63	70	120	
Ge	72	1	No Gas	4136822	0.91	4054511	102.03	70	120	
In	115	1	No Gas	4898748	0.17	4760341	102.91	70	120	
Bi	209	1	No Gas	4297786	0.43	4254344	101.02	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	279ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq Date Time	2024-05-30T23:56:50-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	158CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Li	7	1	No Gas	99.831	2.072	1146456	2.78	100	99.8	180	120	ICSB Main CR1 Failed
Be	9	1	No Gas	101.272	1.349	334497	2.25	100	101.3	80	120	
V	51	2	He	102.405	2.457	1193140	1.73	100	102.4	80	120	
Cr	52	2	He	100.458	2.394	1326602	1.67	100	100.5	80	120	
Fe	56	2	He	107956.121	2.626	1342110993	1.85	100	107956.1	80	120	
Se	78	2	He	102.882	1.434	19198	0.74	100	102.9	80	120	
As	75	2	He	100.499	1.448	237520	1.28	100	100.5	80	120	
Ca	44	2	He	107658.619	1.955	7603434	1.23	100	107658.6	80	120	
Na	23	2	He	109266.191	1.606	206837844	0.95	100	109266.2	80	120	
Mg	24	2	He	107421.260	1.526	125588828	1.16	100	107421.3	80	120	
K	39	2	He	109371.684	2.036	143833021	1.41	100	109371.7	80	120	
Mn	55	2	He	101.150	2.256	969478	1.60	100	101.2	80	120	
Co	59	2	He	101.380	2.360	2117935	1.82	100	101.4	80	120	
Ni	60	2	He	99.738	2.283	535653	1.87	100	99.7	80	120	
Cu	63	2	He	99.627	1.871	1453577	1.39	100	99.6	80	120	
Zn	66	2	He	102.450	1.233	295384	0.95	100	102.5	80	120	
Al	27	2	He	98927.003	2.598	69665846	2.06	100	98927.0	80	120	ICSB Main CR1 Failed
B	11	1	No Gas	531.446	1.424	1151738	1.97	100	531.4	80	120	
Al	27	1	No Gas	91491.155	2.540	1890613678	1.88	100	91491.2	80	120	ICSB Main CR1 Failed
Si	28	1	No Gas	510.378	3.248	4910626	2.17	100	510.4	80	120	
Ag	107	1	No Gas	99.635	2.360	3145907	2.02	100	99.6	80	120	
Cd	111	1	No Gas	100.764	2.154	633071	1.81	100	100.8	80	120	
Sr	88	1	No Gas	103.683	1.798	6020342	1.46	100	103.7	80	120	
Mo	95	1	No Gas	2100.759	1.525	24213430	1.19	100	2100.8	80	120	
Sn	118	1	No Gas	104.222	2.561	2044701	2.29	100	104.2	80	120	
Sb	121	1	No Gas	108.109	2.784	3015941	2.15	100	108.1	80	120	
Ba	137	1	No Gas	104.097	2.395	1001562	2.18	100	104.1	80	120	
Tl	205	1	No Gas	92.043	1.704	5226390	1.74	100	92.0	80	120	
Tl	203	1	No Gas	90.826	2.496	2174897	2.33	100	90.8	80	120	
Pb	208	1	No Gas	105.225	1.602	8220223	1.52	100	105.2	80	120	
U	238	1	No Gas	105.743	2.258	8181367	2.37	100	105.7	80	120	
Ca	43	2	He	102986.724	1.781	428400	1.07	100	102986.7	80	120	
Sb	121	2	He	103.942	2.366	1440633	1.72	100	103.9	80	120	
Ti	47	2	He	2088.821	2.463	890288	1.80	100	2088.8	80	120	
Cu	63	1	No Gas	96.113	2.019	2109054	1.36	100	96.1	80	120	
Se	82	1	No Gas	104.135	1.257	40835	1.47	100	104.1	80	120	

QC ISTD Table

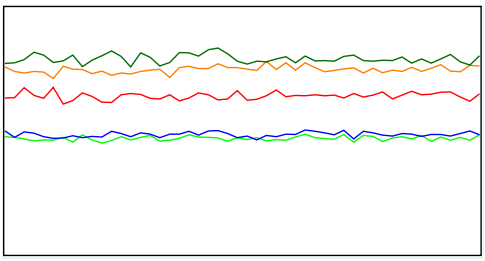
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	756908	1.10	1005681	75.26	70	120	
Ge	72	2	He	1425016	0.88	1291478	110.34	70	120	
Ge	72	1	No Gas	4151760	0.66	4054511	102.40	70	120	
In	115	1	No Gas	4830833	0.34	4760341	101.48	70	120	
Bi	209	1	No Gas	4240790	0.53	4254344	99.68	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\053024A.b
Acq. Date-Time	5/30/2024 9:26:53 AM
Report Comment	---
Instrument Name	G8422A SG22121190

[No Gas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	10000	6418	64182.74		
24	50000	23475	234753.94		
59	100000	48539	485391.88		
115	100000	74912	749119.33		
208	50000	39643	396425.34		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	2.297	5.000	
24	1.975	5.000	
59	2.095	5.000	
115	1.896	5.000	
208	2.291	5.000	

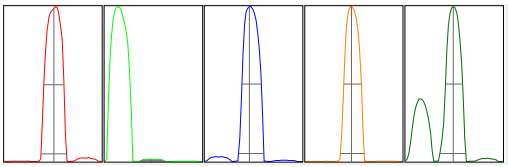
Mass	Background	Background (Required)	Background (Flag)
9	1.000		
24	2.200		
59	1.100		
115	1.700		
208	5.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 0.954 %
Doubly Charged	70 / 140 1.391 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	6446.71	9.05	8.90 - 9.10	
24	23422.80	23.95	23.90 - 24.10	
59	49482.58	58.90	58.90 - 59.10	
115	74559.57	114.95	114.90 - 115.10	
208	39614.06	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.779		
24	0.64	0.784		
59	0.60	0.776		
115	0.53	0.727		
208	0.53	0.791		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	14.8 V
Extract 2	-195.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm

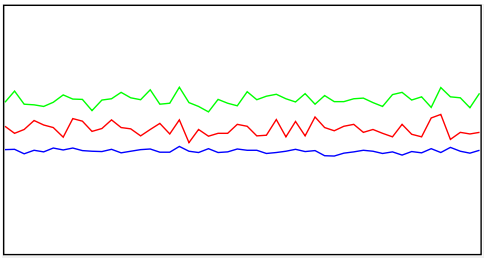
EM

Discriminator	2.9 mV	Analog HV	2191 V	Pulse HV	881 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/(ug/L)]	Resp (Required) [cps/(ug/L)]	Resp (Flag)
9	500	252	2517.22		
24	2000	1246	12463.67		
59	50000	20679	206788.77		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

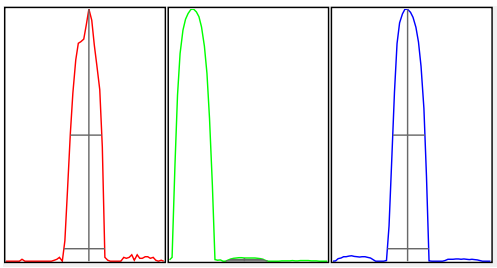
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	5.309	5.000	Fail
24	3.695	5.000	
59	1.981	5.000	

Mass	Background	Background (Required)	Background (Flag)
9	0.700		
24	0.500		
59	0.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.334 %
Doubly Charged	70 / 140 1.163 %

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	273.04	9.10	8.90 - 9.10	
24	1210.56	23.95	23.90 - 24.10	
59	20952.67	58.95	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.765		
24	0.64	0.779		

Tune Check Report

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
59	0.60	0.775		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.30 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.5 V	Deflect	0.2 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-80 V
Omega Bias	-90 V	Cell Exit	-65 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	4.0 mL/min	OctP Bias	-22.0 V		
H2 Flow	0.0 mL/min	OctP RF	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-18.0 V
Mass Offset	126	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	0.1 mm	Torch V	-0.3 mm		

EM

Discriminator	2.9 mV	Analog HV	2191 V	Pulse HV	881 V

Prep Batch Report

Batch ID:	212789	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	30 May 2024 10:30 AM	**Original Factor:**	1
End Date:	30 May 2024 01:30 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24051228-01	B	Liquid		1	10	10	10	SAMPLE MATRIX
HS24051276-01	B	Water		10	10	1	1	
HS24051277-01	B	Water		10	10	1	1	
HS24051277-01MS	A			10	10	1	1	
HS24051277-01MSD	A			10	10	1	1	
LCS-212789	A			10	10	1	1	
MBLK-212789	A			10	10	1	1	

Prep Batch Report

Batch ID:	212789	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	30 May 2024 10:30 AM	**Original Factor:**	1
End Date:	30 May 2024 01:30 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
200.8PR	Dig. End Temp, C (U)	94
HG	Sample Tube	3111202316
Hg_W	Method for SOP HS-MET004 (7470A / EPA 245.1)	7470A / EPA 245.1
Hg_W	Cal Std ID	CalStd ID -052324
Hg_W	Cal 0.0 vol, mL	0
Hg_W	Cal 0.2 vol, mL	0.10
Hg_W	Cal 0.5 vol, mL	0.25
Hg_W	Cal 2.0 vol, mL	1
Hg_W	Cal 5.0 vol, mL	2.5
Hg_W	Cal 10.0 vol, mL	5
Hg_W	ICV Std vol, mL	0.25
Hg_W	ICB Std vol, mL	0
Hg_W	CCV Std vol, mL	2.5
Hg_W	CCB Std vol, mL	0
Hg_W	Digestion Cup ID	3111202516
Hg_W	Filter ID	N/A
Hg_W	Hotblock ID	HB 1
Hg_W	Thermometer ID	W21857
Hg_W	Thermometer Position	A1
Hg_W	LCS/MS ID:	02- SPK- 052024
Hg_W	LCS Volume, mL	0.5
Hg_W	MS Volume, mL	0.5
Hg_W	H2SO4 ID	311120201819
Hg_W	K2S2O8 ID	PER - 7/3/23
Hg_W	HNO3 ID	3111202304
Hg_W	5% KMnO4 ID	KMNO - 7/3/23
Hg_W	NaCl/Hydroxylamine ID	HYDRO - 7/3/23
Hg_W	Dig. Start Time	13:30PM
Hg_W	Dig. Start Temp, C (U)	94
Hg_W	Dig. Start Temp, C (C)	94
Hg_W	0.5 mL H2SO4 (Time)	YES
Hg_W	0.25 mL HNO3 (Time)	YES
Hg_W	Dig. End Time	15:30PM
Hg_W	1.5 mL 5% KMnO4 (Time)	YES
Hg_W	Dig. End Temp, C (C)	94

Prep Batch Report

Batch ID:	212789	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	30 May 2024 10:30 AM	**Original Factor:**	1
End Date:	30 May 2024 01:30 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
Hg_W	0.6 mL NaCl/Hydrox. (Time)	YES
Hg_W	0.8 mL K2S2O8 (Time)	YES
Hg_W	0.5 mL 10% SnCl2 ID	SNCL - 5/16/24
Hg_W	ICCV Std vol, mL	2.5
Hg_W	CRA Std vol, mL	0.1
Hg_W	pH Paper:	30010709607
MET	Pipette #3	HG #12
MET	Pipette #1	ICP#12

Prep Batch Report

Batch ID:	212449	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	23 May 2024 03:30 PM	**Original Factor:**	1
End Date:	23 May 2024 07:30 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24051228-01	B	Liquid	>2	1	10	10	10	DOD PH 12
HS24051276-01	B	Water	<2	10	10	1	1	
HS24051276-01MS	A		<2	10	10	1	1	
HS24051276-01MSD	A		<2	10	10	1	1	
HS24051276-01PDS	A		<2	10	10	1	1	
HS24051276-01SD	A		<2	10	10	1	1	
HS24051277-01	B	Water	<2	10	10	1	1	
LCS-212449	A			10	10	1	1	
MBLK-212449	A			10	10	1	1	

Prep Batch Report

Batch ID:	212449	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	23 May 2024 03:30 PM	**Original Factor:**	1
End Date:	23 May 2024 07:30 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB6
3010A	Thermometer ID	969569
3010A	Thermometer Location	D4
3010A	Dig. Cup ID	3111202421
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202408
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)

HS24051277 E2400568 Perch Level IV Report

ALS WO# HS24051277

June 05, 2024 Service Request No:E2400568

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24051277

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 22, 2024
For your reference, these analyses have been assigned our service request number **E2400568.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

HKelany

Hussam Kelany
Project Manager

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400568
Project:	HS24051277	**Date Received:**	05/22/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 05/22/24.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400268: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400568
Project: HS24051277

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400568-001	LH18/24-SP140_052124	5/21/2024	1300

Service Request Summary

Folder #: **E2400568**
Client Name: ALS Environmental - US
Project Name: HS24051277
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/22/24
Internal Due Date: 6/5/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: EQUIS APTIM
LONGHORN EFWEDD

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400568-001	LH18/24-SP140_052124	Water	05/21/24 1300	**IV**

Service Request Summary

Folder #: **E2400568**
Client Name: ALS Environmental - US
Project Name: HS24051277
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/22/24
Internal Due Date: 6/5/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: EQUIS APTIM
LONGHORN EFWEDD

1 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5D
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

E2400568 5
ALS Group USA, Corp.
HS24051277

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25756**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24051277
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24051277-01**	**LH18/24-SP140_052124**	**Water**	**21 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdfInclude EDDS - [9/14 3:39 PM] Hussam Kelany EQUIS APTIM LONGHORN EFWEDD BASICWQC_CASNo			30 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 5/22 24 1015

Cooler ID(s): _____ Temperature(s): _____

5

E2400568
ALS Group USA, Corp.
HS24051277

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24051277 **Date/Time received:** 22 May 2024 10:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 22 May 2024 13:09 Bernadette A. Fini **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: Water **Carrier name:** FedEx Priority Overnight

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	1 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s): none	
Samplers name present on COC?	☐ Yes	☑ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 2.5/2.6 uc/c IR31

Cooler Information: 1 Cooler(s), Blue

Date/Time sample(s) sent to storage: 5-22-24 13:30

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400556-001	2405091420Y 700-H-535	.01	6850/ClO4 DOD			Water	10mL	
2	E2400556-002	2405101000Y 700-H-350	.01	6850/ClO4 DOD			Water	10mL	
3	E2400556-003	2405131447B BLM-32-543	.01	6850/ClO4 DOD			Water	10mL	
4	E2400557-001	2405141431B WW-4-419	.01	6850/ClO4 DOD			Water	10mL	
5	E2400557-002	2405141447B WW-4-589	.01	6850/ClO4 DOD			Water	10mL	
6	E2400563-001	2405151418B WW-4-848	.01	6850/ClO4 DOD			Water	10mL	
7	E2400563-002	2405151435B WW-4-948	.01	6850/ClO4 DOD			Water	10mL	
8	E2400563-003	2405151506Y PL-7-560	.01	6850/ClO4 DOD			Water	10mL	
9	E2400566-001	SOWW16_052024	.01	6850/ClO4 DOD			Water	10mL	
10	E2400566-002	SOWW18_052024	.01	6850/ClO4 DOD			Water	10mL	
11	E2400566-003	SOWW22_052024	.01	6850/ClO4 DOD			Water	10mL	
12	E2400566-004	SOWW15_052024	.01	6850/ClO4 DOD			Water	10mL	
13	E2400566-005	SOWW14_052124	.01	6850/ClO4 DOD			Water	10mL	
14	E2400566-006	SOWW13_052124	.01	6850/ClO4 DOD			Water	10mL	
15	E2400566-007	SOWW11_052124	.01	6850/ClO4 DOD			Water	10mL	
16	E2400566-008	SOWW05_052124	.01	6850/ClO4 DOD			Water	10mL	
17	E2400566-009	SOWW29_052124	.01	6850/ClO4 DOD			Water	10mL	
18	E2400568-001	LH18/24-SP140_052124	.01	6850/ClO4 DOD			Water	10mL	
19	E2400569-001	LH18/24-SP650_052124_AIX	.01	6850/ClO4 DOD			Water	10mL	
20	EQ2400268-01	MB		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400268-02	LCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400268-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400268-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400268-04 20.00µL

Name: Perchlorate Intermediate Stock 3 Inventory ID 234838 Logbook Ref: Perchlorate Inter. Stock 3 NMV Expires On: 10/25/2024

EQ2400268-02 100.00µL EQ2400268-03 100.00µL EQ2400268-04 100.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400556-001 100.00µL E2400556-002 100.00µL E2400556-003 100.00µL E2400557-001 100.00µL E2400557-002 100.00µL E2400563-001 100.00µL

Preparation Information Benchsheet

Prep Run#: 439292 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 5/30/24 13:14

E2400563-002	100.00µL	E2400563-003	100.00µL	E2400566-001	100.00µL	E2400566-002	100.00µL	E2400566-003	100.00µL	E2400566-004	100.00µL
E2400566-005	100.00µL	E2400566-006	100.00µL	E2400566-007	100.00µL	E2400566-008	100.00µL	E2400566-009	100.00µL	E2400568-001	100.00µL
E2400569-001	100.00µL	EQ2400268-01	100.00µL	EQ2400268-02	100.00µL	EQ2400268-03	100.00µL	EQ2400268-04	100.00µL		

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235267)

Preparation Steps

Step: Preparation
Started: 5/30/24 13:14
Finished: 5/30/24 15:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400568
Project:	HS24051277	**Date Collected:**	5/21/24 1300
Sample Matrix:	Water	**Date Received:**	5/22/24
Sample Name:	LH18/24-SP140_052124	**Units:**	µg/L
Lab Code:	E2400568-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**21000**		1000	500	250	10000	5/30/24	5/31/24 17:10	439292	842781	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400568
Project:	HS24051277	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400268-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:35	439292	842781	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277
Sample Matrix: Water

Service Request: E2400568
Date Analyzed: 5/31/24

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Units: µg/L
Basis: NA

Extraction Lot: 439292

	Lab Control Sample EQ2400268-02			Duplicate Lab Control Sample EQ2400268-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.106	0.100	106	0.105	0.100	105	84 - 119	1	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400568
Project:	HS24051277	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.106**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:41	439292	842781	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400568
Project:	HS24051277	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400268-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.105**		0.100	0.0500	0.0250	1	5/30/24	5/31/24 14:46	439292	842781	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
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www.alsglobal.com

841830

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240523-001	IB	Perchlorate6850c.lcm	1x		5/23/2024 14:17
2	20240523-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		5/23/2024 14:23
3	20240523-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		5/23/2024 14:28
4	20240523-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		5/23/2024 14:34
5	20240523-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		5/23/2024 14:39
6	20240523-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		5/23/2024 14:45
7	20240523-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		5/23/2024 14:50
8	20240523-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		5/23/2024 14:56
9	20240523-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		5/23/2024 15:01
10	20240523-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		5/23/2024 15:07
11	20240523-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		5/23/2024 15:12
12	20240523-012	PerchlorateICV	Perchlorate6850c.lcm	1x		5/23/2024 15:18
13	20240523-013	IB	Perchlorate6850c.lcm	1x		5/23/2024 15:23
14	20240523-014	LODV	Perchlorate6850c.lcm	1x		5/23/2024 15:29
15	20240523-015	ICS	Perchlorate6850c.lcm	1x		5/23/2024 15:35
16	20240523-016	CCV	Perchlorate6850c.lcm	1x		5/23/2024 15:40
17	20240523-017	IB	Perchlorate6850c.lcm	1x		5/23/2024 15:46
18	20240523-018	EQ2400248-01 MB	Perchlorate6850c.lcm	1x		5/23/2024 15:51
19	20240523-019	EQ2400248-02 LCS	Perchlorate6850c.lcm	1x		5/23/2024 15:57
20	20240523-020	EQ2400248-03 DLCS	Perchlorate6850c.lcm	1x		5/23/2024 16:02
21	20240523-021	EQ2400248-04 ICS	Perchlorate6850c.lcm	1x		5/23/2024 16:08
22	20240523-022	E2400538-01	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:13
23	20240523-023	E2400498-01	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:19
24	20240523-024	E2400498-02	Perchlorate6850c.lcm	1x	Iss failure DL needed	5/23/2024 16:25
25	20240523-025	E2400483-01	Perchlorate6850c.lcm	1x	Iss : low IS	5/23/2024 16:30
26	20240523-026	E2400538-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 16:36
27	20240523-027	E2400483-02	Perchlorate6850c.lcm	1x	Iss : low IS	5/23/2024 16:41
28	20240523-028	CCV	Perchlorate6850c.lcm	1x		5/23/2024 16:47
29	20240523-029	IB	Perchlorate6850c.lcm	1x		5/23/2024 16:52
30	20240523-030	E2400492-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 16:58
31	20240523-031	E2400538-01 10x	Perchlorate6850c.lcm	1x	10x DL wrong	5/23/2024 17:03
32	20240523-032	E2400492-02	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:09
33	20240523-033	E2400492-03	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:15
34	20240523-034	E2400492-04	Perchlorate6850c.lcm	1x		5/23/2024 17:20
35	20240523-035	E2400493-01	Perchlorate6850c.lcm	1x	RI low IS confirm	5/23/2024 17:26
36	20240523-036	CCV	Perchlorate6850c.lcm	1x		5/23/2024 17:31
37	20240523-037	IB	Perchlorate6850c.lcm	1x		5/23/2024 17:37

841830

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time

Initial Calibration - Detailed Report

Calibration ID: EC2400008 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400008-01	Perchlorate ICAL 1	20240523-002	05/23/2024 14:23
02	EC2400008-02	Perchlorate ICAL 2	20240523-003	05/23/2024 14:28
03	EC2400008-03	Perchlorate ICAL 3	20240523-004	05/23/2024 14:34
04	EC2400008-04	Perchlorate ICAL 4	20240523-005	05/23/2024 14:39
05	EC2400008-05	Perchlorate ICAL 5	20240523-006	05/23/2024 14:45
06	EC2400008-06	Perchlorate ICAL 6	20240523-007	05/23/2024 14:50
07	EC2400008-07	Perchlorate ICAL 7	20240523-008	05/23/2024 14:56
08	EC2400008-08	Perchlorate ICAL 8	20240523-009	05/23/2024 15:01
09	EC2400008-09	Perchlorate ICAL 9	20240523-010	05/23/2024 15:07
10	EC2400008-10	Perchlorate ICAL 10	20240523-011	05/23/2024 15:12

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 6.262** **Average RF = 0.1325**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1273	02	0.5000	0.1171	03	0.7000	0.1228	04	1.0000	0.1277
05	2.0000	0.1345	06	5.0000	0.1354	07	10.0000	0.1401	08	20.0000	0.1398
09	30.0000	0.1399	10	50.0000	0.1401						

Analyte

Perchlorate RSE = 6.26

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0961	-3.9	02	0.5000	0.442	-11.6	03	0.7000	0.649	-7.3
04	1.0000	0.964	-3.6	05	2.0000	2.03	1.5	06	5.0000	5.11	2.2
07	10.0000	10.6	5.7	08	20.0000	21.1	5.5	09	30.0000	31.7	5.6
10	50.0000	52.9	5.8								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400008	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240523-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400008-11	T	Average RF	10	10.506	ng/mL	5.1	<= 15

Insight Report

Printed at 6/4/2024 12:58:42 PM

Method File: I:\LCMS01\DATA\20240523ICAL\20240523.lcm
Project File: I:\LCMS01\DATA\20240523ICAL\20240523.damIp

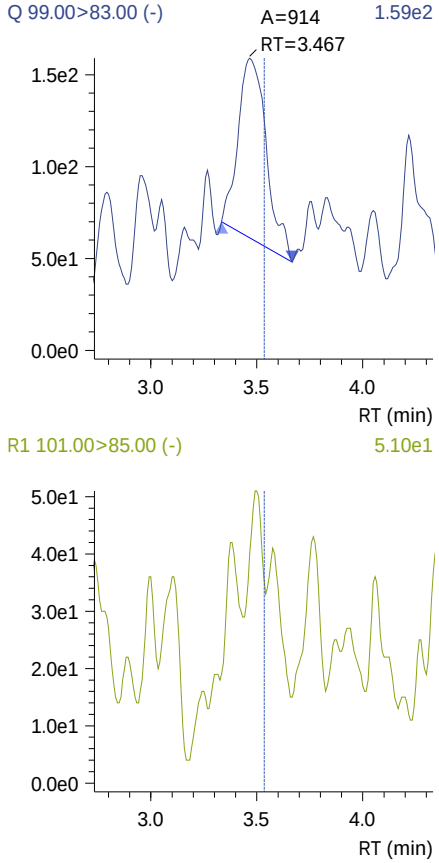
IB

Sample ID: IB
Date Acquired: 5/23/2024 2:17:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	424709	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.478	424709	424709	1.0000	ng/mL	----	----	

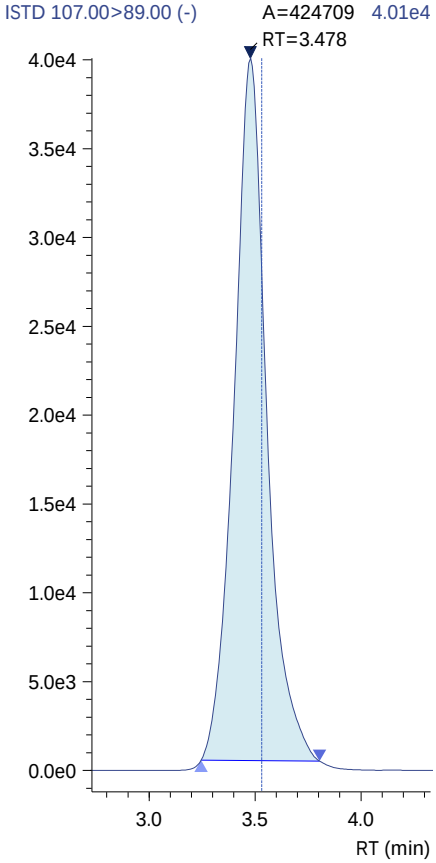
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

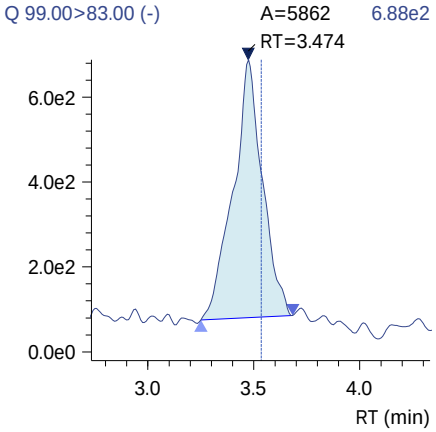
Perchlorate ICAL 1

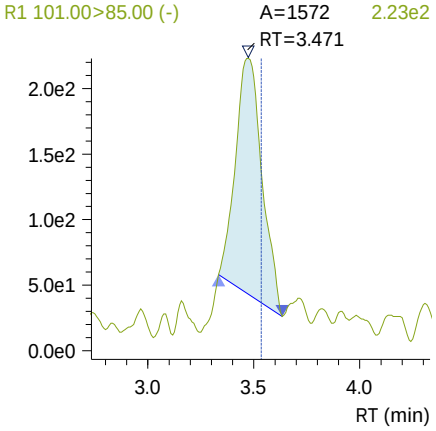
Sample ID: Perchlorate ICAL 1
Date Acquired: 5/23/2024 2:23:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.474	5862	460498	0.0961	ng/mL	101.00 >85.00	26.81	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.476	460498	460498	1.0000	ng/mL	----	----	

Perchlorate

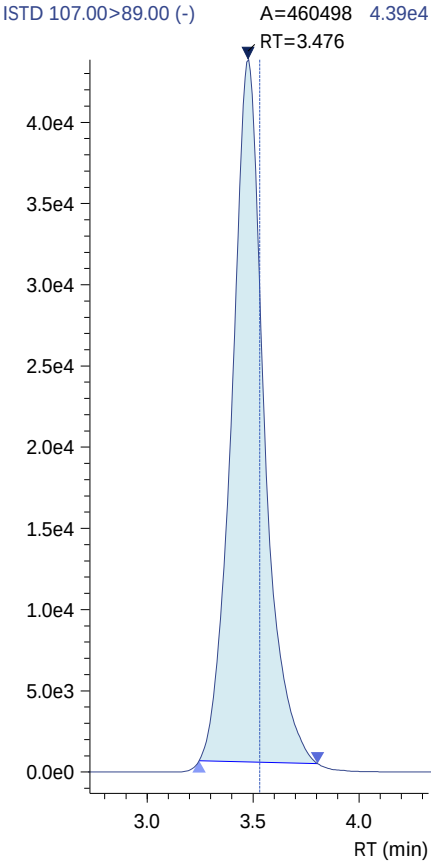
Conc 0.0961
R#1 26.81 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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Perchlorate ICAL 2

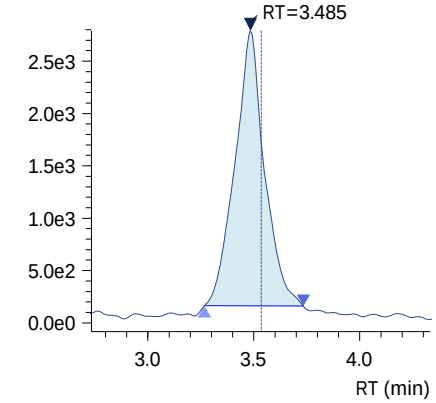
Sample ID: Perchlorate ICAL 2
Date Acquired: 5/23/2024 2:28:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.485	25535	436264	0.4419	ng/mL	101.00 >85.00	27.91	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.477	436264	436264	1.0000	ng/mL	----	----	

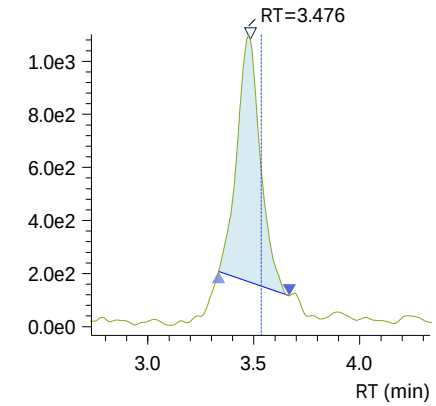
Perchlorate

Conc 0.4419
R#1 27.91 (34.10)

Q 99.00>83.00 (-) A=25535 2.79e3



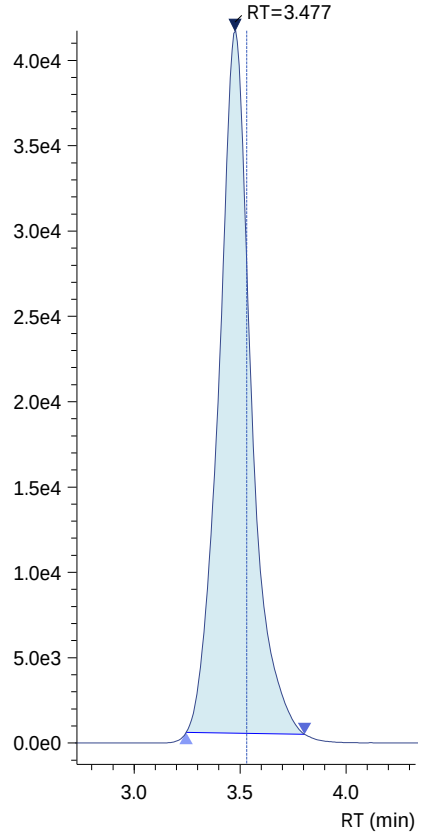
R1 101.00>85.00 (-) A=7127 1.10e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=436264 4.17e4



Insight Report

Printed at 6/4/2024 12:58:42 PM

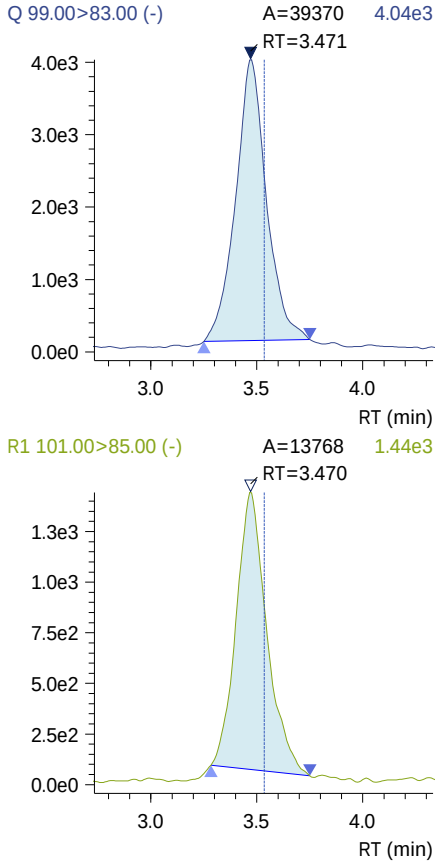
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 5/23/2024 2:34:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.471	39370	458077	0.6488	ng/mL	101.00 >85.00	34.97	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	458077	458077	1.0000	ng/mL	----	----	

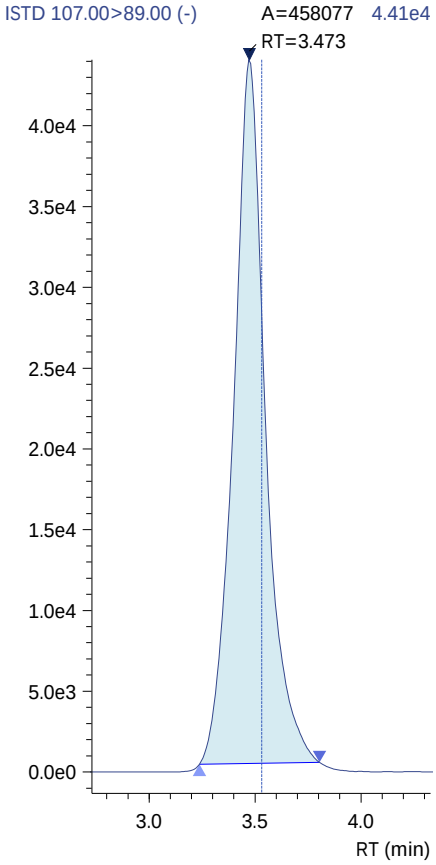
Perchlorate

Conc 0.6488
R#1 34.97 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

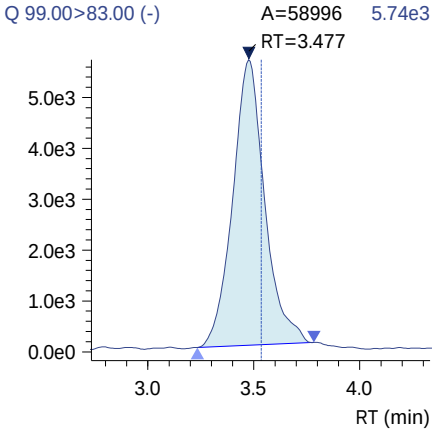
Perchlorate ICAL 4

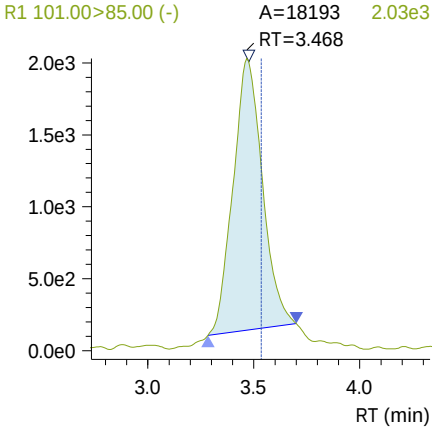
Sample ID: Perchlorate ICAL 4
Date Acquired: 5/23/2024 2:39:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	58996	462144	0.9637	ng/mL	101.00 >85.00	30.84	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.474	462144	462144	1.0000	ng/mL	----	----	

Perchlorate

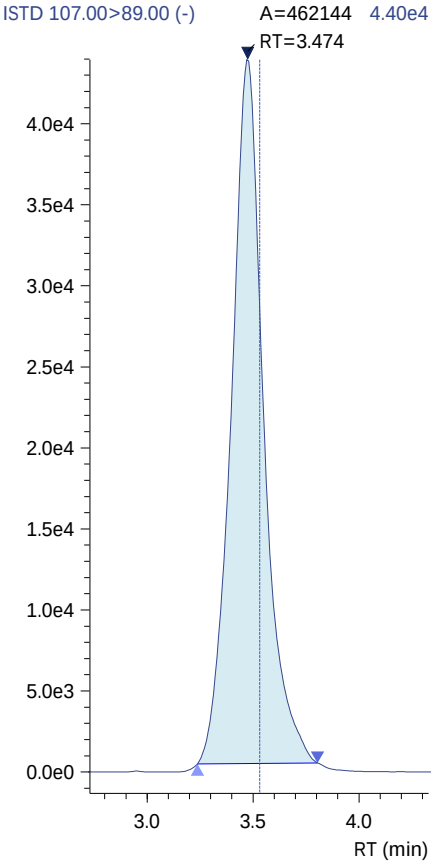
Conc 0.9637
R#1 30.84 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

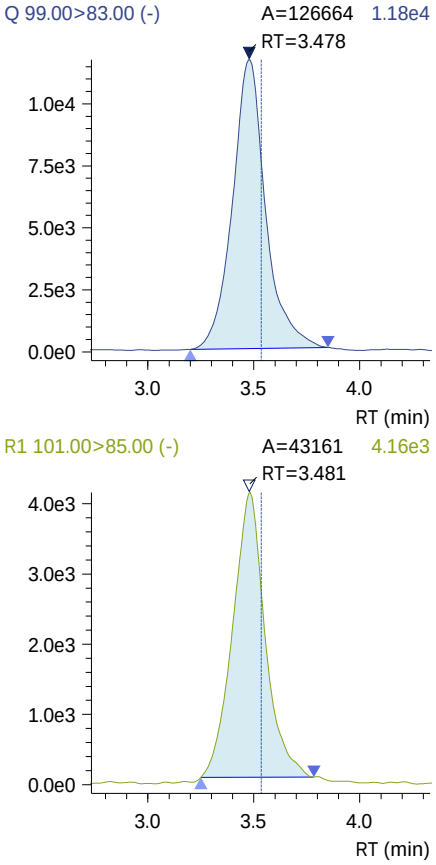
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 5/23/2024 2:45:16 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.478	126664	470896	2.0307	ng/mL	101.00 >85.00	34.08	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.475	470896	470896	1.0000	ng/mL	----	----	

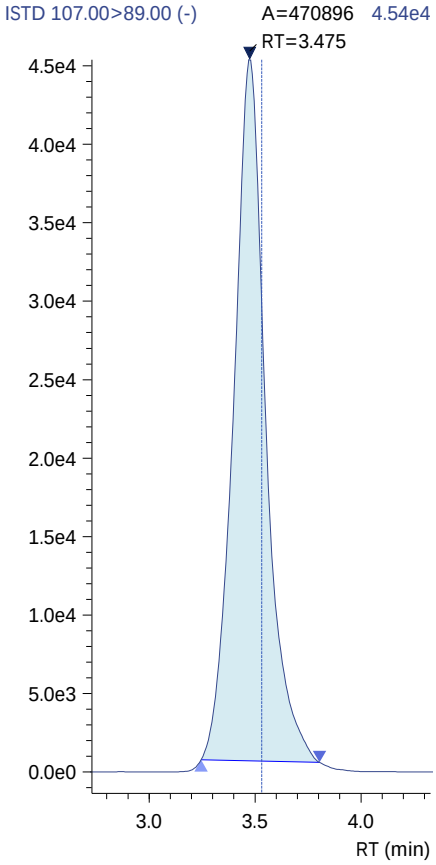
Perchlorate

Conc 2.0307
R#1 34.08 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

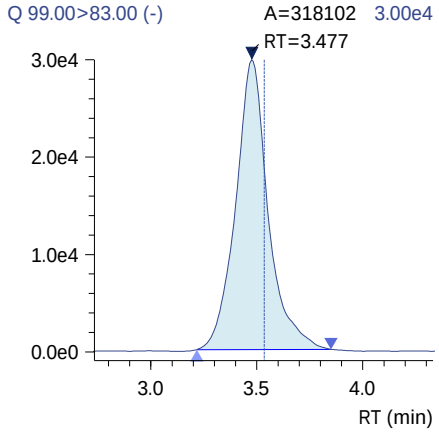
Perchlorate ICAL 6

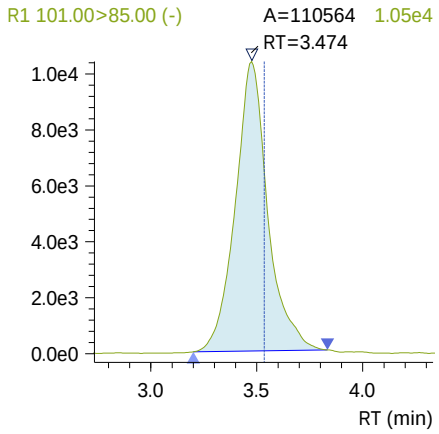
Sample ID: Perchlorate ICAL 6
Date Acquired: 5/23/2024 2:50:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	318102	469845	5.1113	ng/mL	101.00 >85.00	34.76	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	469845	469845	1.0000	ng/mL	----	----	

Perchlorate

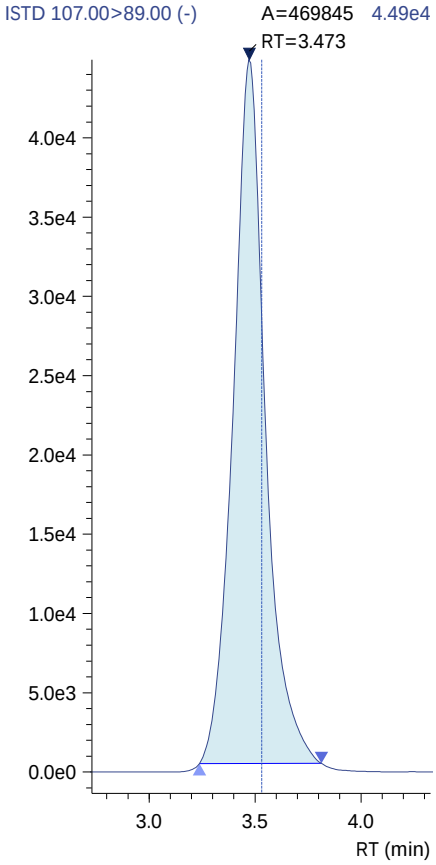
Conc 5.1113
R#1 34.76 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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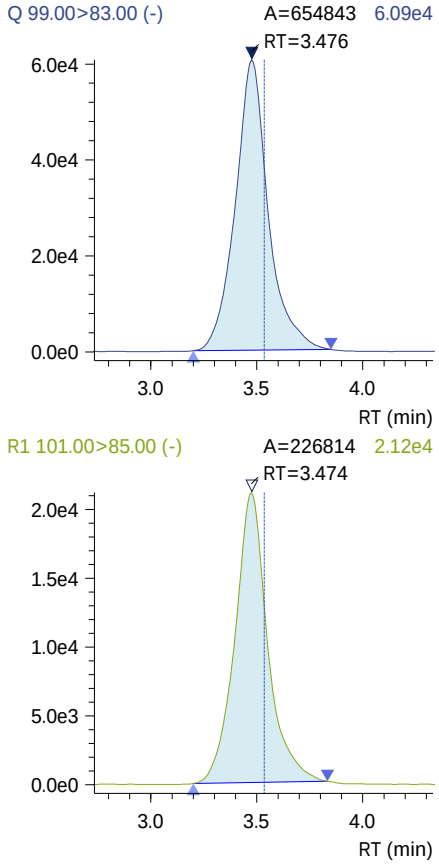
Perchlorate ICAL 7

Sample ID: Perchlorate ICAL 7
Date Acquired: 5/23/2024 2:56:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.476	654843	467526	10.5 742	ng/mL	101.00 >85.00	34.64	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.474	467526	467526	1.0000	ng/mL	----	----	

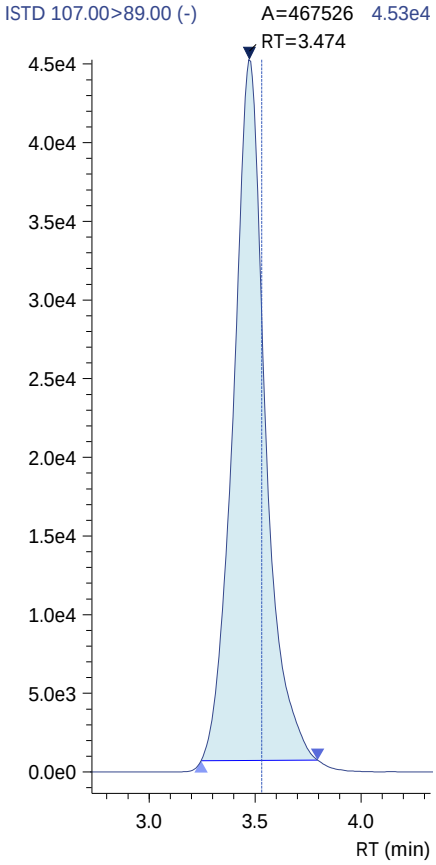
Perchlorate

Conc 10.5742
R#1 34.64 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

Perchlorate ICAL 8

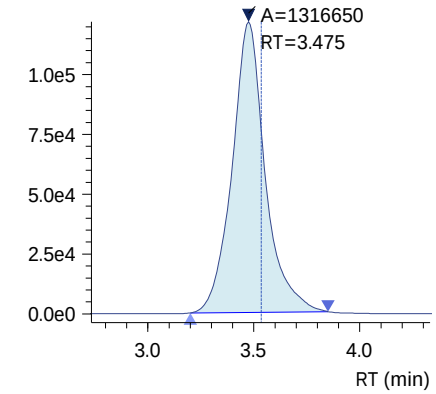
Sample ID: Perchlorate ICAL 8
Date Acquired: 5/23/2024 3:01:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.475	13166 50	470903	21.1 084	ng/mL	101.00 >85.00	34.99	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.472	470903	470903	1.0000	ng/mL	----	----	

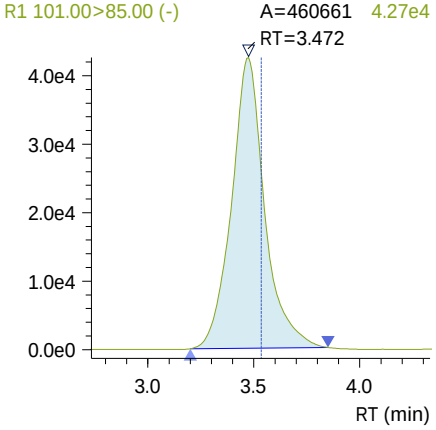
Perchlorate

Conc 21.1084
R#1 34.99 (34.10)

Q 99.00>83.00 (-) 1.22e5



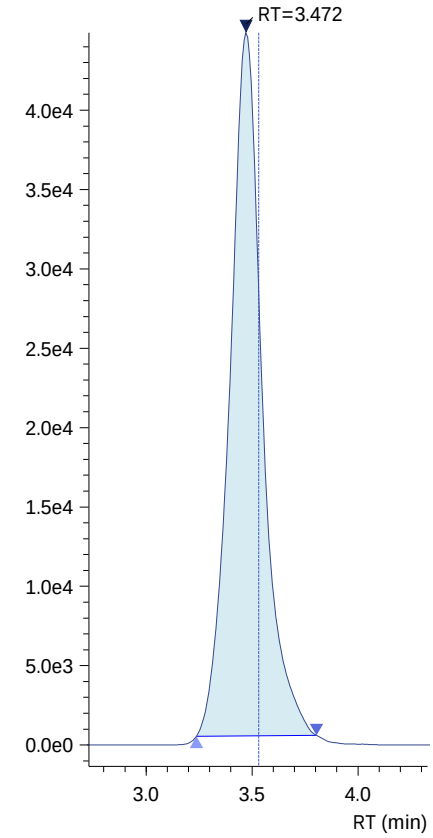
R1 101.00>85.00 (-) A=460661 4.27e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=470903 4.49e4



Insight Report

Printed at 6/4/2024 12:58:42 PM

Perchlorate ICAL 9

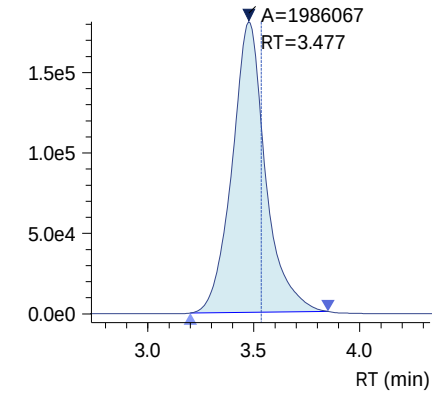
Sample ID: Perchlorate ICAL 9
Date Acquired: 5/23/2024 3:07:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.477	19860 67	473268	31.6 813	ng/mL	101.00 >85.00	34.46	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.472	473268	473268	1.0000	ng/mL	----	----	

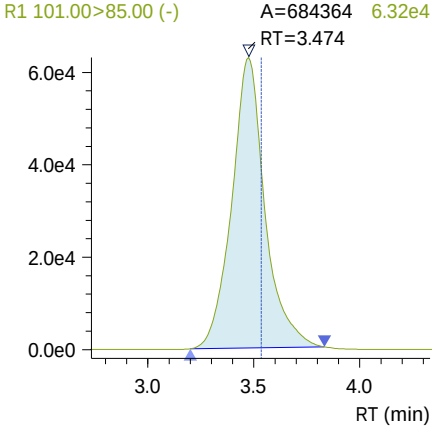
Perchlorate

Conc 31.6813
R#1 34.46 (34.10)

Q 99.00>83.00 (-) 1.82e5



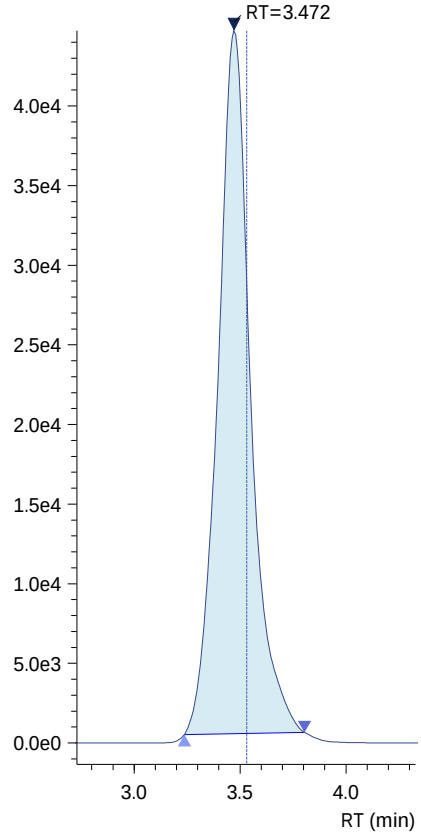
R1 101.00>85.00 (-) A=684364 6.32e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=473268 4.47e4



Insight Report

Printed at 6/4/2024 12:58:42 PM

Perchlorate ICAL 10

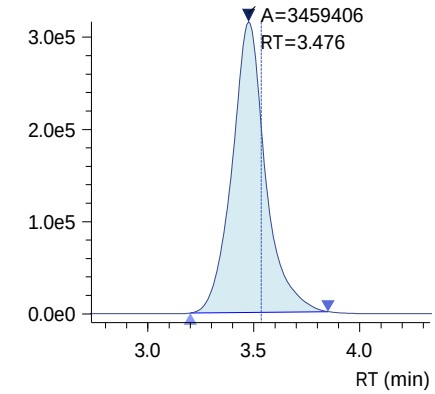
Sample ID: Perchlorate ICAL 10
Date Acquired: 5/23/2024 3:12:56 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.476	3459406	493682	52.9018	ng/mL	101.00 >85.00	34.61	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.472	493682	493682	1.0000	ng/mL	----	----	

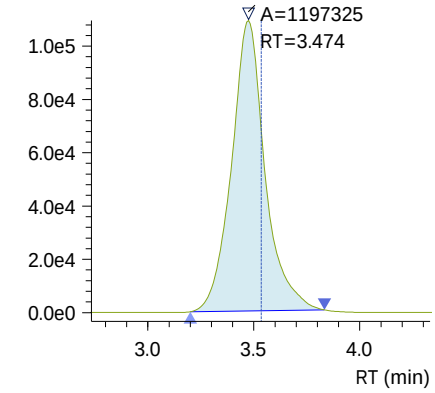
Perchlorate

Conc 52.9018
R#1 34.61 (34.10)

Q 99.00>83.00 (-) 3.17e5



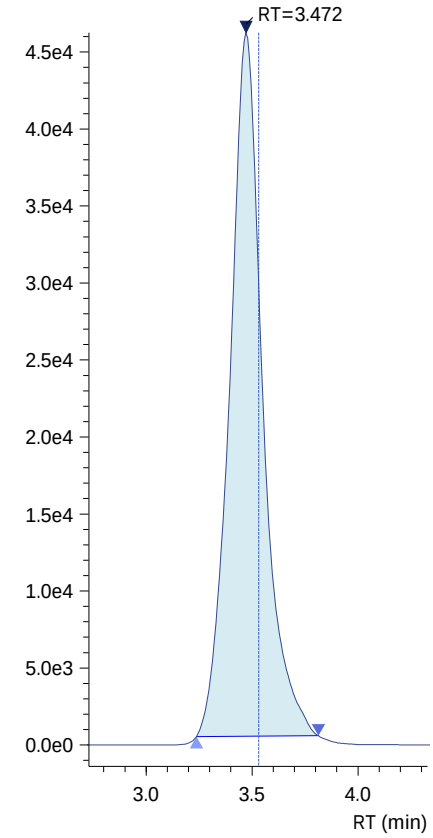
R1 101.00>85.00 (-) 1.10e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=493682 4.63e4



Insight Report

Printed at 6/4/2024 12:58:42 PM

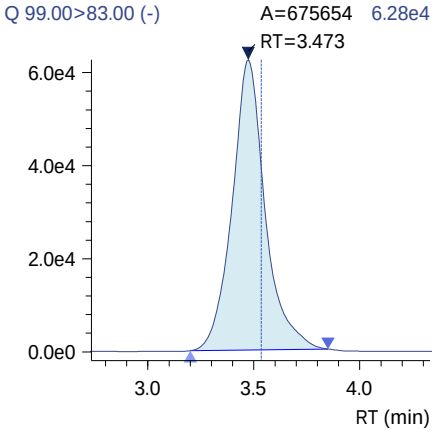
PerchlorateICV

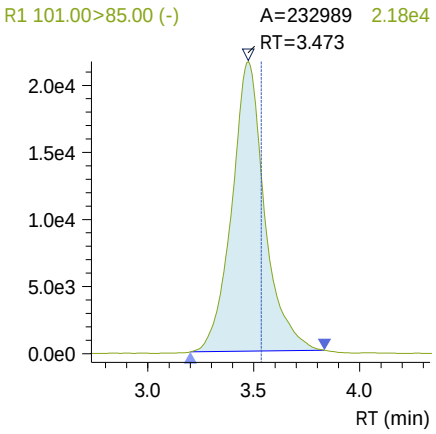
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Date Acquired: 5/23/2024 3:18:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	675654	485527	10.5058	ng/mL	101.00 >85.00	34.48	24.14 -44.84
Sodium Perchlorate-18O4_IS	Auto	3.473	485527	485527	1.0000	ng/mL	----	----	

Perchlorate

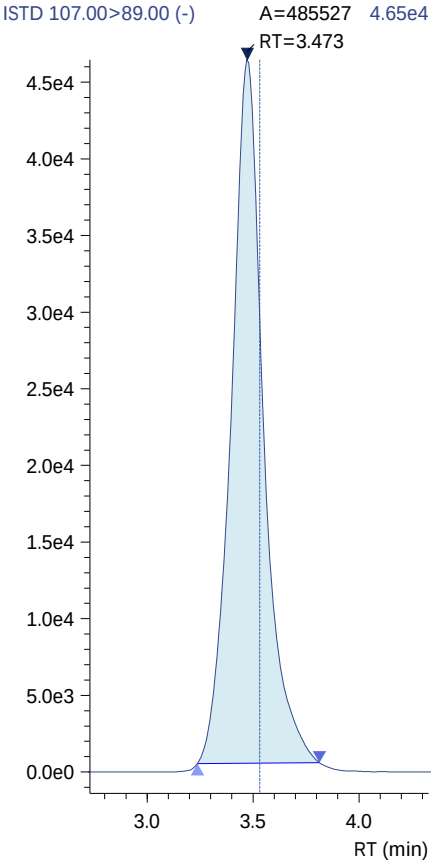
Conc 10.5058
R#1 34.48 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/4/2024 12:58:42 PM

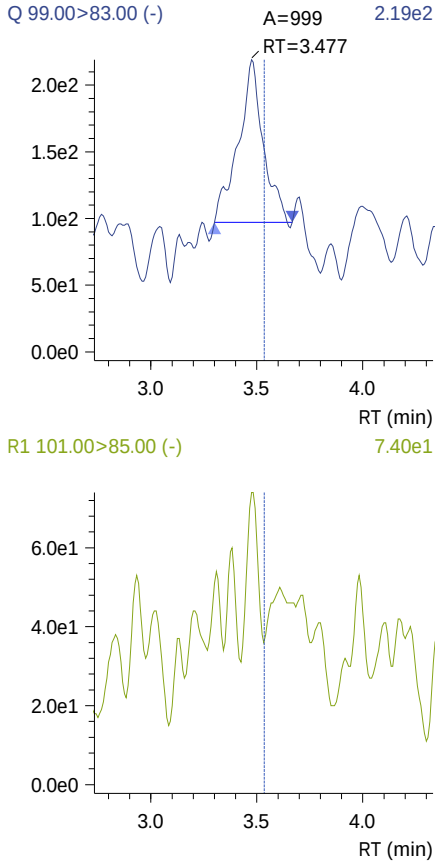
IB

Sample ID: IB
Date Acquired: 5/23/2024 3:23:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240523ICAL\20240523-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	485949	----	ng/mL	101.00 >85.00	0.00	24.14 -44.84
Sodium Perchlorate -18O4_IS	Auto	3.473	485949	485949	1.0000	ng/mL	----	----	

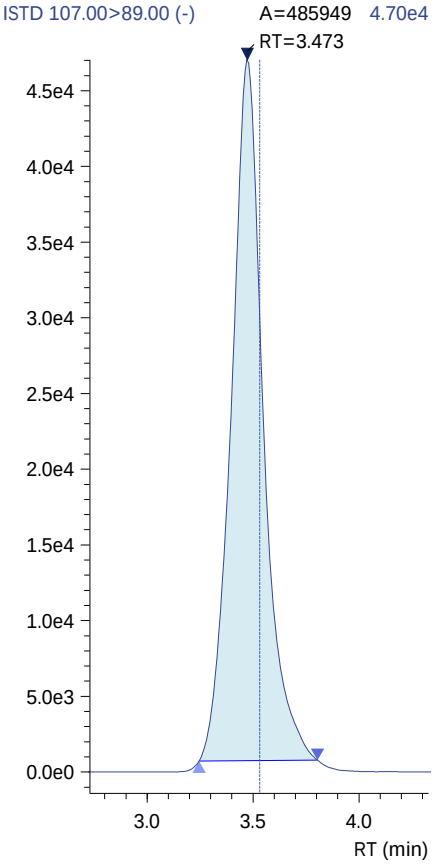
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

842781

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240531-001	IB	Perchlorate6850c.lcm	1x		5/31/2024 11:57
2	20240531-002	LODV	Perchlorate6850c.lcm	1x		5/31/2024 12:03
3	20240531-003	ICS	Perchlorate6850c.lcm	1x		5/31/2024 12:11
4	20240531-004	CCV	Perchlorate6850c.lcm	1x		5/31/2024 12:17
5	20240531-005	IB	Perchlorate6850c.lcm	1x		5/31/2024 12:22
6	20240531-006	EQ2400267-01	Perchlorate6850c.lcm	1x	DNU out of range	5/31/2024 12:28
7	20240531-007	EQ2400267-02	Perchlorate6850c.lcm	1x		5/31/2024 12:33
8	20240531-008	EQ2400267-03	Perchlorate6850c.lcm	1x		5/31/2024 12:39
9	20240531-009	EQ2400267-04	Perchlorate6850c.lcm	1x		5/31/2024 12:44
10	20240531-010	EQ2400267-05	Perchlorate6850c.lcm	1x		5/31/2024 12:50
11	20240531-011	E2400547-01	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 12:55
12	20240531-012	EQ2400267-01	Perchlorate6850c.lcm	1x		5/31/2024 13:01
13	20240531-013	E2400548-01	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 13:06
14	20240531-014	E2400548-02	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 13:12
15	20240531-015	E2400548-03	Perchlorate6850c.lcm	1x	DNU DL	5/31/2024 13:18
16	20240531-016	E2400548-04	Perchlorate6850c.lcm	1x	/IB forgot to adjust file name (loc	5/31/2024 13:34
17	20240531-017	CCV	Perchlorate6850c.lcm	1x		5/31/2024 13:23
18	20240531-018	IB	Perchlorate6850c.lcm	1x		5/31/2024 13:29
19	20240531-019	E2400548-10	Perchlorate6850c.lcm	1x		5/31/2024 13:40
20	20240531-020	E2400548-06	Perchlorate6850c.lcm	1x		5/31/2024 13:45
21	20240531-021	E2400548-05 100X	Perchlorate6850c.lcm	100x		5/31/2024 13:51
22	20240531-022	E2400548-08 10000	Perchlorate6850c.lcm	10000x		5/31/2024 13:57
23	20240531-023	E2400548-09 10000	Perchlorate6850c.lcm	10000x		5/31/2024 14:02
24	20240531-024	E2400548-14 10000	Perchlorate6850c.lcm	10000x		5/31/2024 14:08
25	20240531-025	CCV	Perchlorate6850c.lcm	1x		5/31/2024 14:13
26	20240531-026	IB	Perchlorate6850c.lcm	1x		5/31/2024 14:19
27	20240531-027	E2400548-16	Perchlorate6850c.lcm	1x		5/31/2024 14:24
28	20240531-028	E2400548-18	Perchlorate6850c.lcm	1x		5/31/2024 14:30
29	20240531-029	EQ2400268-01	Perchlorate6850c.lcm	1x		5/31/2024 14:35
30	20240531-030	EQ2400268-02	Perchlorate6850c.lcm	1x		5/31/2024 14:41
31	20240531-031	EQ2400268-03	Perchlorate6850c.lcm	1x		5/31/2024 14:46
32	20240531-032	EQ2400268-04	Perchlorate6850c.lcm	1x		5/31/2024 14:52
33	20240531-033	E2400556-01	Perchlorate6850c.lcm	1x		5/31/2024 14:57
34	20240531-034	E2400556-02	Perchlorate6850c.lcm	1x	DNU	5/31/2024 15:03
35	20240531-035	E2400548-15 10000	Perchlorate6850c.lcm	10000x		5/31/2024 15:09
36	20240531-036	E2400548-17 10000	Perchlorate6850c.lcm	10000x		5/31/2024 15:14
37	20240531-037	CCV	Perchlorate6850c.lcm	1x		5/31/2024 15:20
38	20240531-038	IB	Perchlorate6850c.lcm	1x		5/31/2024 15:25
39	20240531-039	E2400556-03	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 15:31
40	20240531-040	E2400557-01	Perchlorate6850c.lcm	1x		5/31/2024 15:36

842781

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 5/23/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400008

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41	20240531-041	E2400557-02	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 15:42
42	20240531-042	E2400563-01	Perchlorate6850c.lcm	1x	DNU	5/31/2024 15:47
43	20240531-043	E2400563-02	Perchlorate6850c.lcm	1x	dnu	5/31/2024 15:53
44	20240531-044	E2400563-03	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 15:58
45	20240531-045	E2400566-01	Perchlorate6850c.lcm	1x	DNU	5/31/2024 16:04
46	20240531-046	E2400566-02	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 16:10
47	20240531-047	E2400566-03	Perchlorate6850c.lcm	1x	DNU ISs	5/31/2024 16:15

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24 12:17

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-004
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-01
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-01	412,559	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24 13:23

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-017
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-02
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-02	386,740	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24 14:13

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-025
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-03
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-03	374,551	3.46
Method Blank	EQ2400268-01	334,256	3.46
Lab Control Sample	EQ2400268-02	324,942	3.46
Duplicate Lab Control Sample	EQ2400268-03	321,396	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24 15:20

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-037
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-04
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-04	356,549	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24 16:26

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-049
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-05
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-05	315,667	3.46
LH18/24-SP140_052124	E2400568-001	290,046	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24 17:16

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-058
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-06
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-06	298,706	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24 18:00

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-066
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-07
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-07	268,553	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24 18:45

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240531\20240531-074
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400272-08
Analysis Lot: 842781
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	466,310	3.47
	Upper Limit ==>	699,465	5.47
	Lower Limit ==>	233,155	1.47
Associated Analyses			
Continuing Calibration Verification	EQ2400272-08	254,889	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-004

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1325	0.1431	8.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-017

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.1	0.1325	0.1469	10.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-025

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1325	0.1463	10.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-037

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.3	0.1325	0.1497	13.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-049

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.1	0.1325	0.1470	11.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-058

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1325	0.1461	10.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-066

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.0	0.1325	0.1454	9.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24051277

Service Request: E2400568
Date Analyzed: 5/31/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240531\20240531-074

Calibration Date: 5/23/24
Calibration ID: EC2400008
Analysis Lot: 842781
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	11.4	0.1325	0.1508	13.9	NA	± 15 %	Average RF

Insight Report

Printed at 6/3/2024 2:04:26 PM

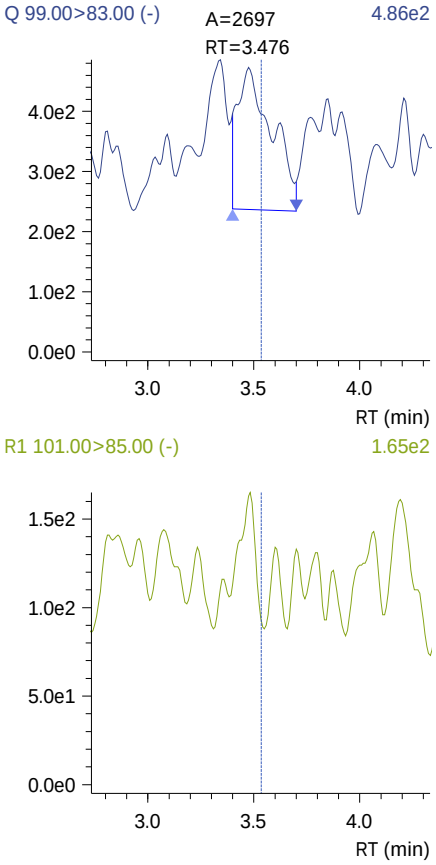
IB

Sample ID: IB
Date Acquired: 5/31/2024 11:57:41 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	407268	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.463	407268	407268	1.0000	ng/mL	----	----	

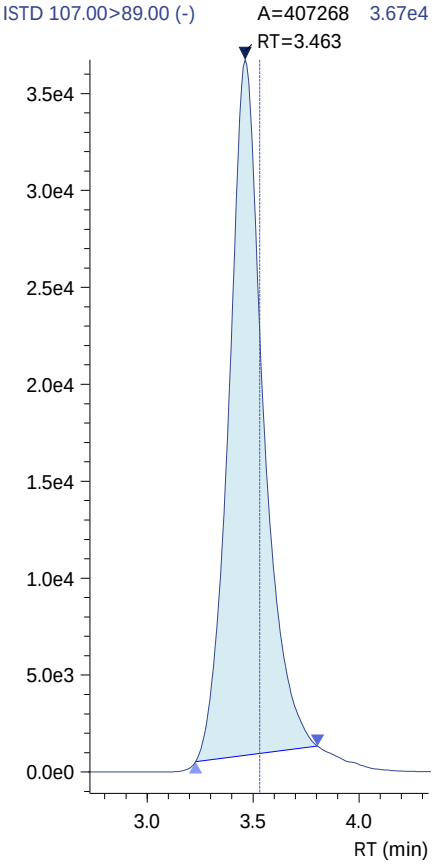
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

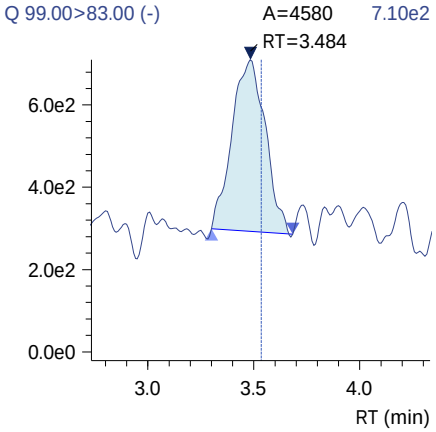
LODV

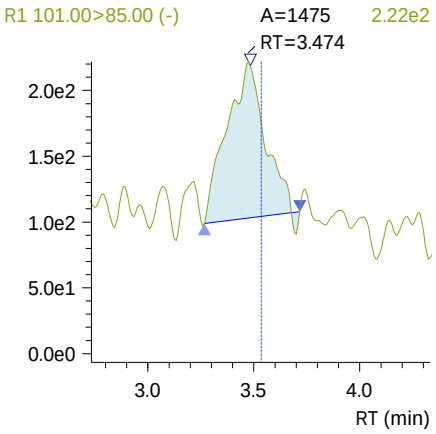
Sample ID: LODV
Date Acquired: 5/31/2024 12:03:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.484	4580	372154	0.0929	ng/mL	101.00 >85.00	32.21	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.462	372154	372154	1.0000	ng/mL	----	----	

Perchlorate

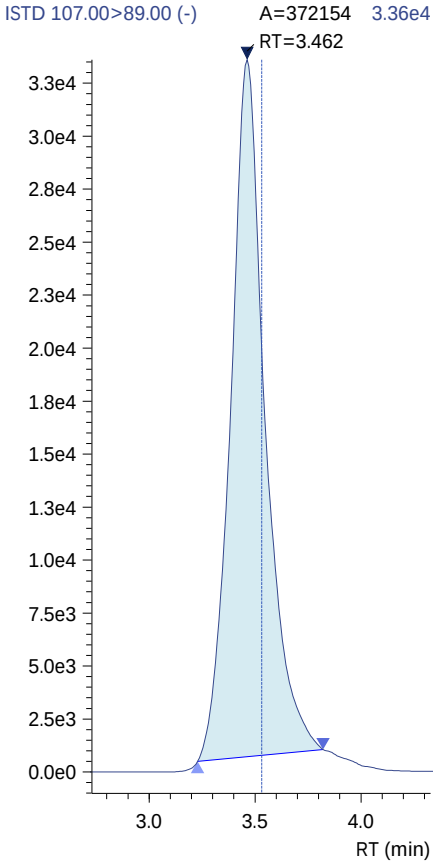
Conc 0.0929
R#1 32.21 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

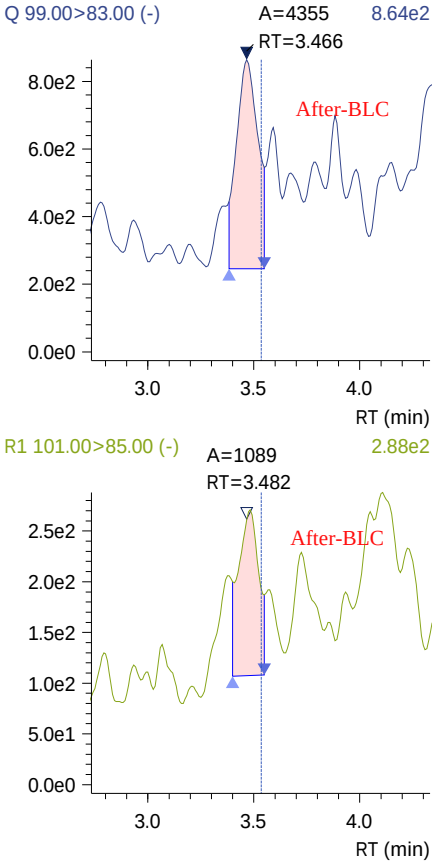
ICS

Sample ID: ICS
Date Acquired: 5/31/2024 12:11:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.466	4355	393279	0.0836	ng/mL	101.00 >85.00	25.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.464	393279	393279	1.0000	ng/mL	----	----	

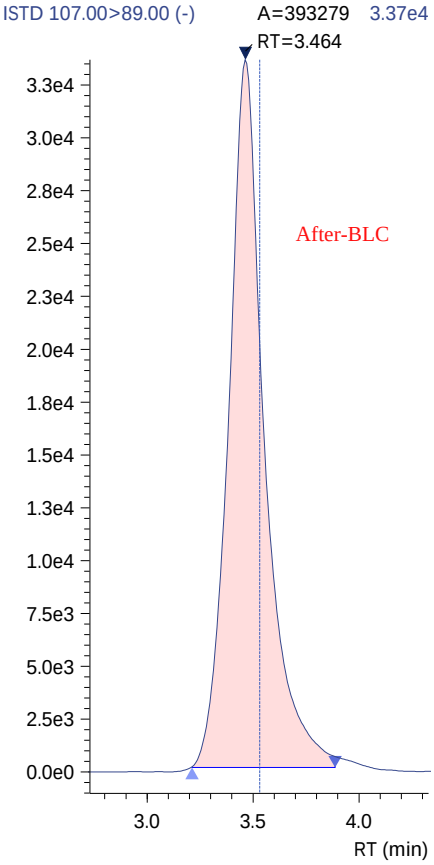
Perchlorate

Conc 0.0836
R#1 25.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

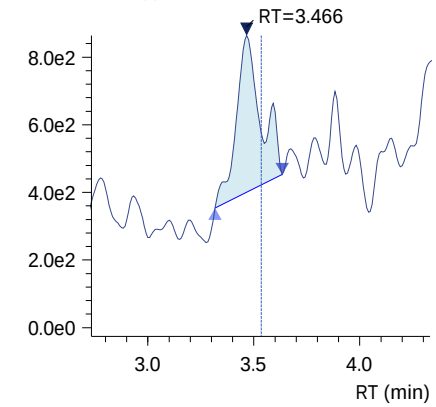
ICS

Sample ID: ICS
Date Acquired: 5/31/2024 12:11:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-003.lcd
Vial: 15 | Inj. Volume: 10.0000uL | Tray: 1

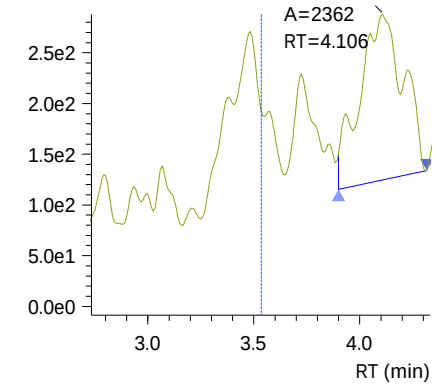
Perchlorate

Conc 0.0754
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=3700 8.64e2



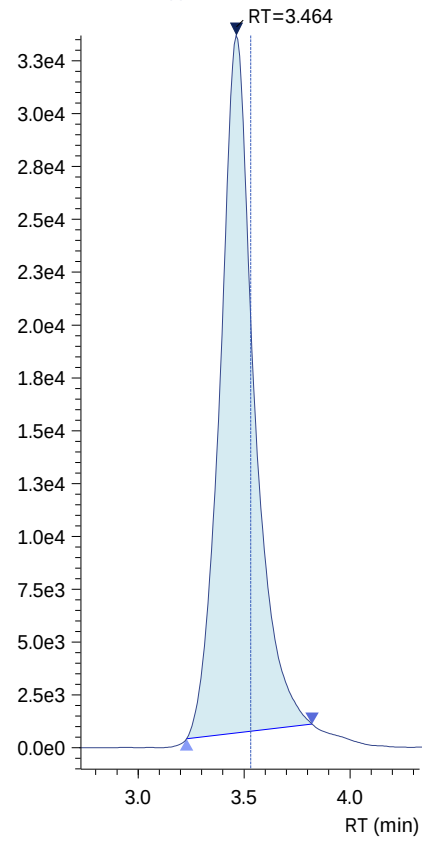
R1 101.00>85.00 (-) 2.88e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=370402 3.37e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

Method File: I:\LCMS01\DATA\20240531\20240531.lcm
Project File: I:\LCMS01\DATA\20240531\20240531.damlp

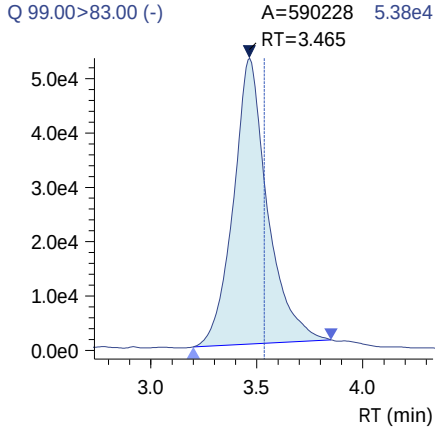
CCV

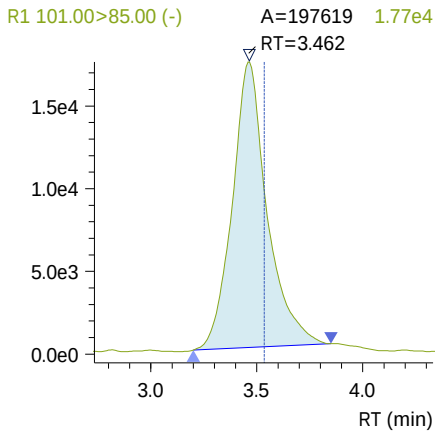
Sample ID: CCV
Date Acquired: 5/31/2024 12:17:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.465	590228	412559	10.8006	ng/mL	101.00 >85.00	33.48	23.30 -43.28
Sodium Perchlorate-18O4_IS	M	3.461	412559	412559	1.0000	ng/mL	----	----	

Perchlorate

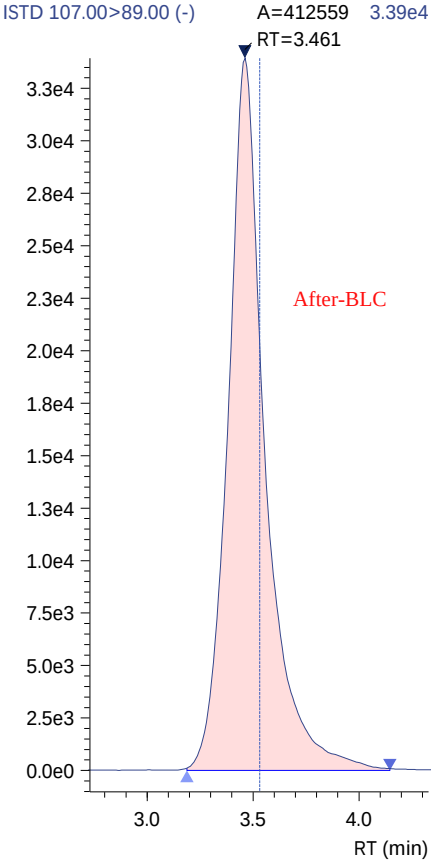
Conc 10.8006
R#1 33.48 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

Method File: I:\LCMS01\DATA\20240531\20240531.lcm
Project File: I:\LCMS01\DATA\20240531\20240531.damlp

CCV

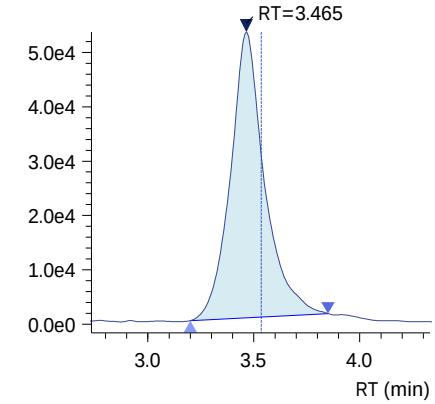
Sample ID: CCV
Date Acquired: 5/31/2024 12:17:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

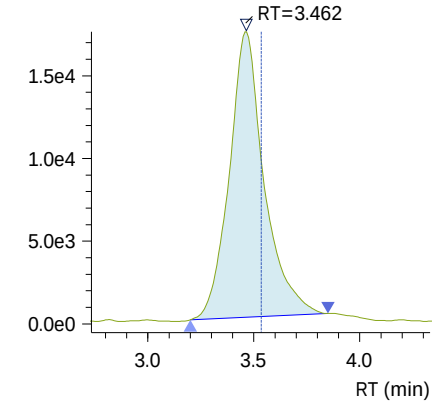
Conc 11.9457

R#1 33.48 (34.10)

Q 99.00>83.00 (-) A=590228 5.38e4



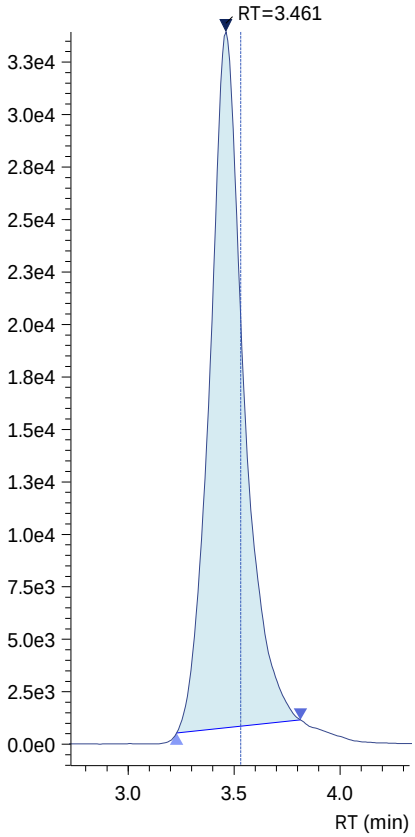
R1 101.00>85.00 (-) A=197619 1.77e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=373014 3.39e4



Insight Report

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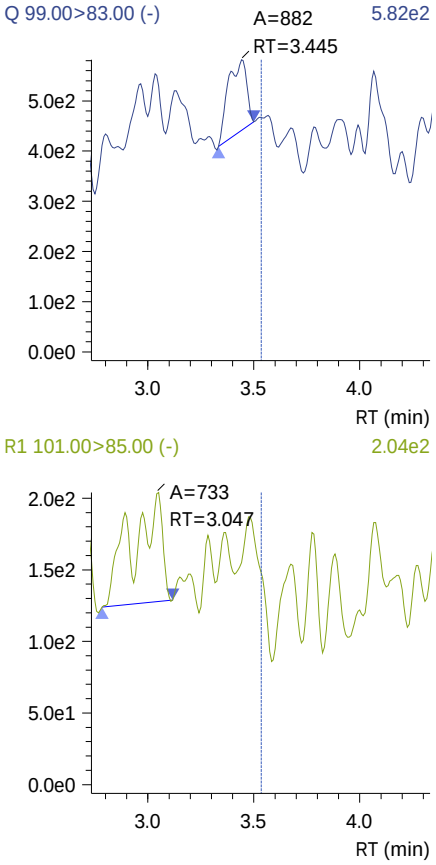
IB

Sample ID: IB
Date Acquired: 5/31/2024 12:22:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	411556	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.461	411556	411556	1.0000	ng/mL	----	----	

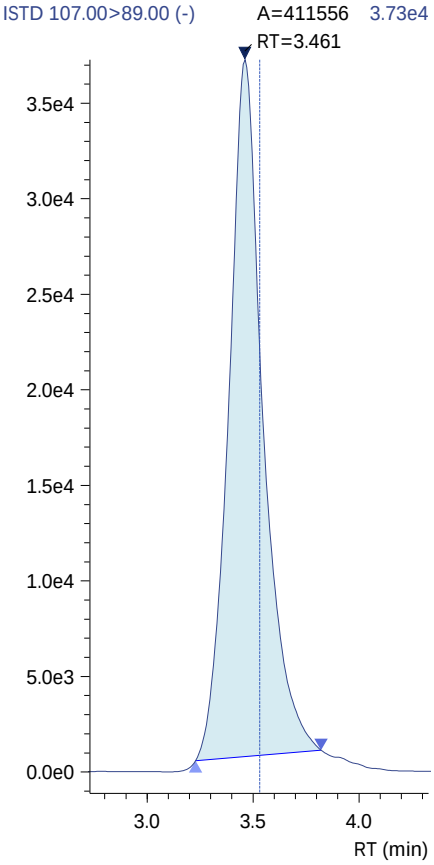
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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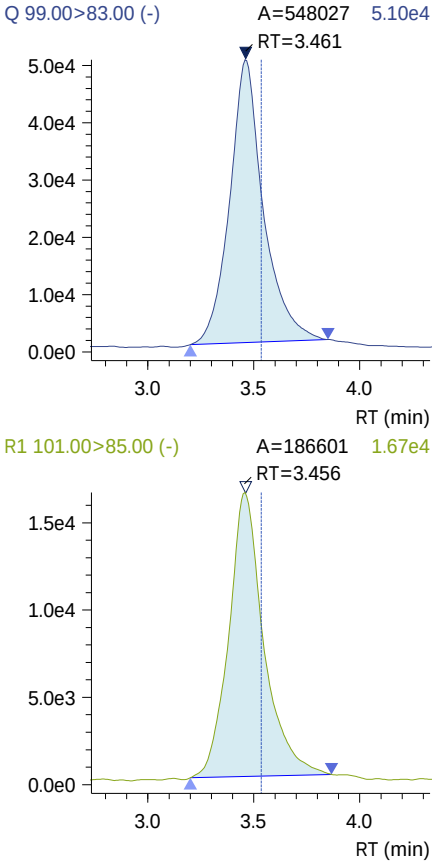
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 2:13:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-025.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.461	548027	374551	11.0461	ng/mL	101.00 >85.00	34.05	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.457	374551	374551	1.0000	ng/mL	----	----	

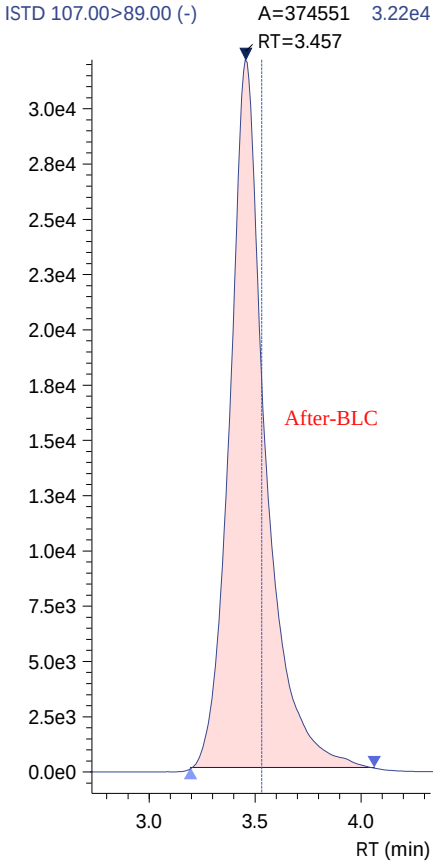
Perchlorate

Conc 11.0461
R#1 34.05 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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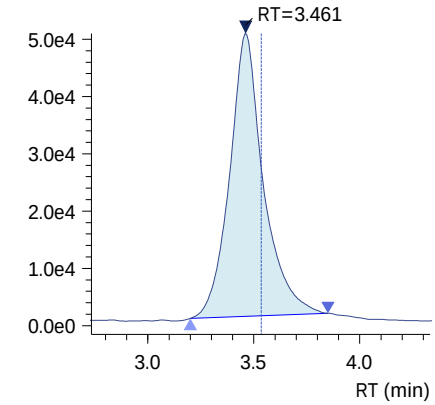
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 2:13:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-025.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

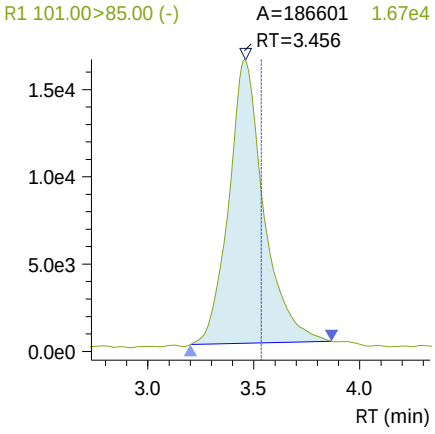
Perchlorate

Conc 11.9042
R#1 34.05 (34.10)

Q 99.00>83.00 (-) A=548027 5.10e4



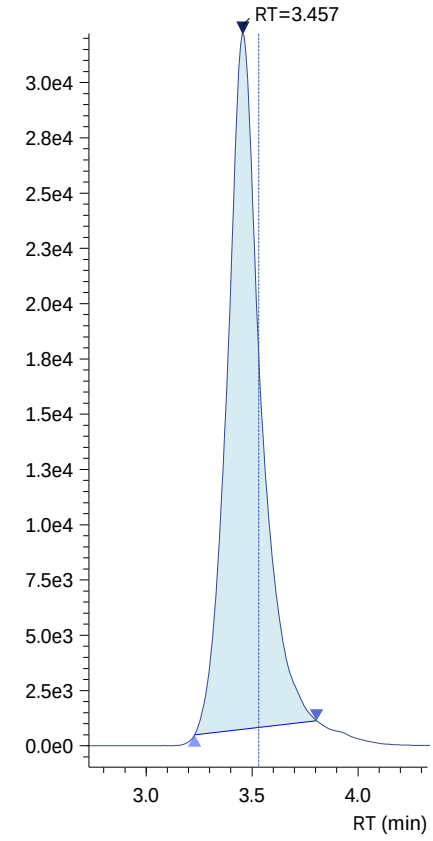
R1 101.00>85.00 (-) A=186601 1.67e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=347550 3.22e4



Insight Report

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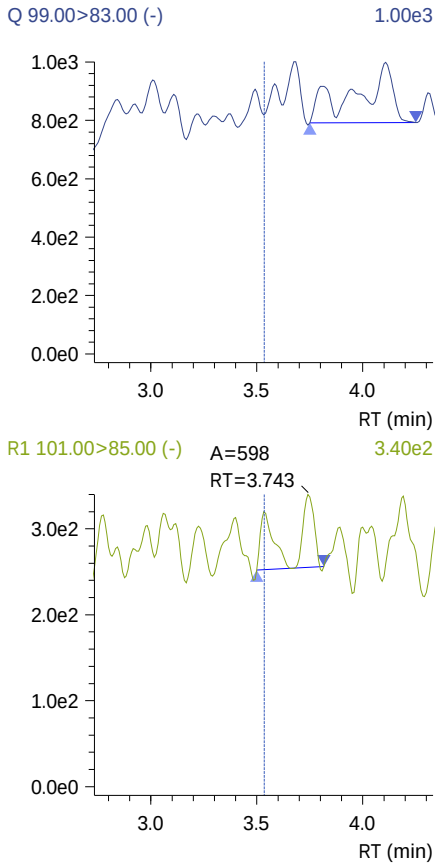
IB

Sample ID: IB
Date Acquired: 5/31/2024 2:19:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-026.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	377624	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.457	377624	377624	1.0000	ng/mL	----	----	

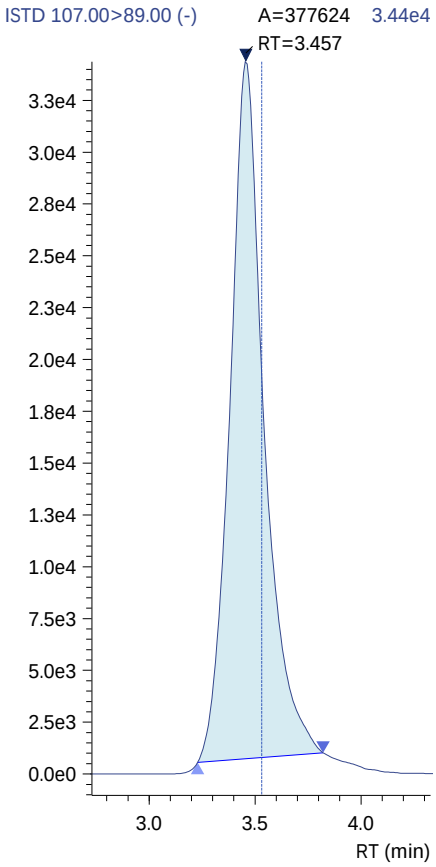
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

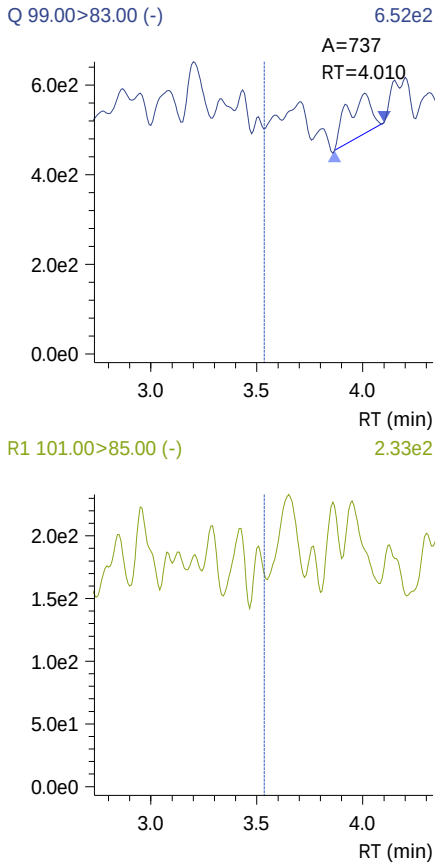
EQ2400268-01

Sample ID: EQ2400268-01
Date Acquired: 5/31/2024 2:35:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-029.lcd
Vial: 25 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	334256	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.456	334256	334256	1.0000	ng/mL	----	----	

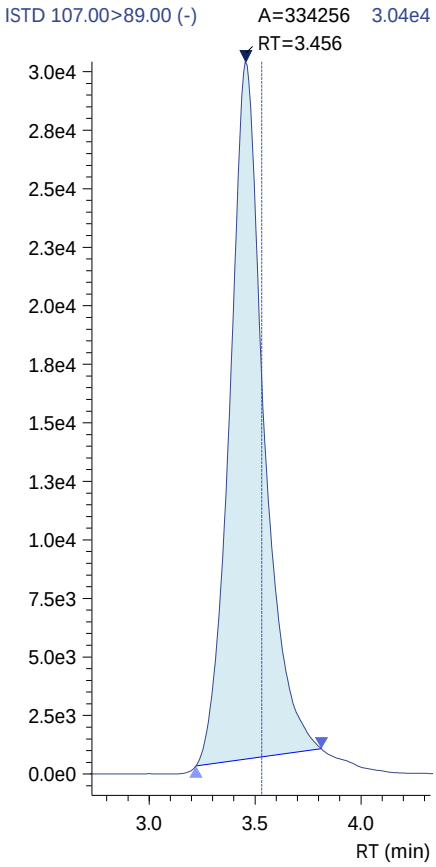
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

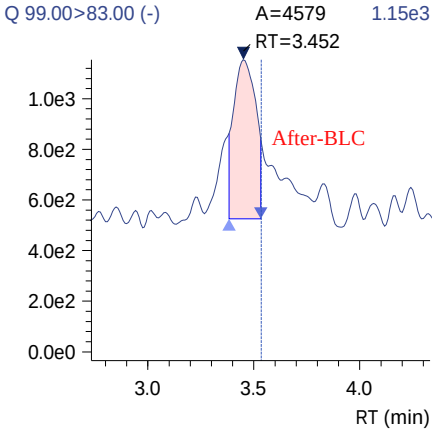
EQ2400268-02

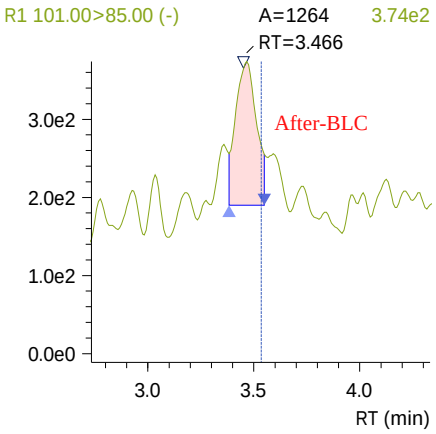
Sample ID: EQ2400268-02
Date Acquired: 5/31/2024 2:41:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-030.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.452	4579	324942	0.1064	ng/mL	101.00 >85.00	27.60	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.458	324942	324942	1.0000	ng/mL	----	----	

Perchlorate

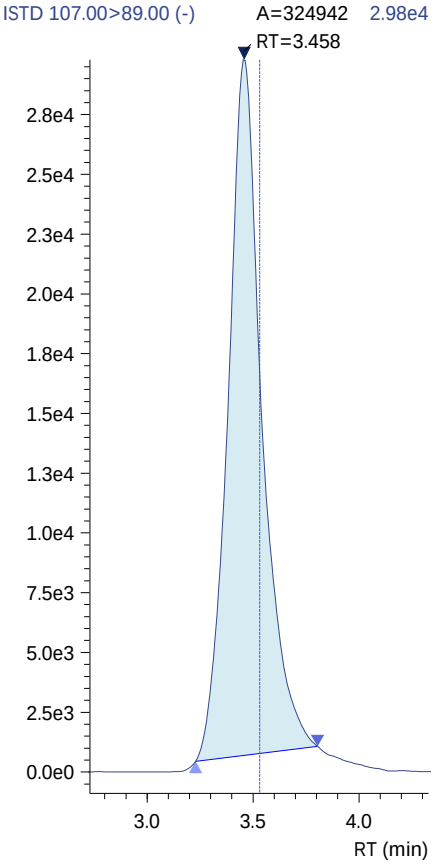
Conc 0.1064
R#1 27.60 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

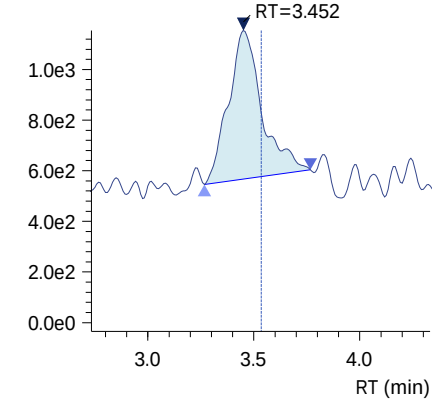
EQ2400268-02

Sample ID: EQ2400268-02
Date Acquired: 5/31/2024 2:41:21 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-030.lcd
Vial: 26 | Inj. Volume: 10.0000uL | Tray: 2

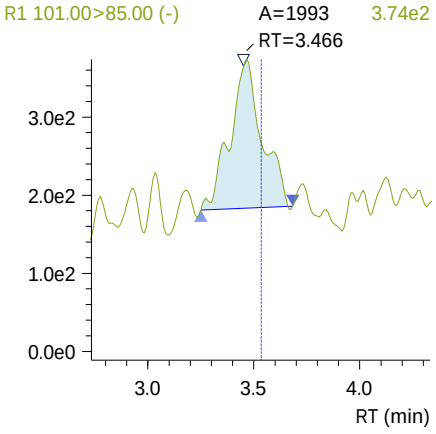
Perchlorate

Conc 0.1504
R#1 30.80 (34.10)

Q 99.00>83.00 (-) A=6472 1.15e3



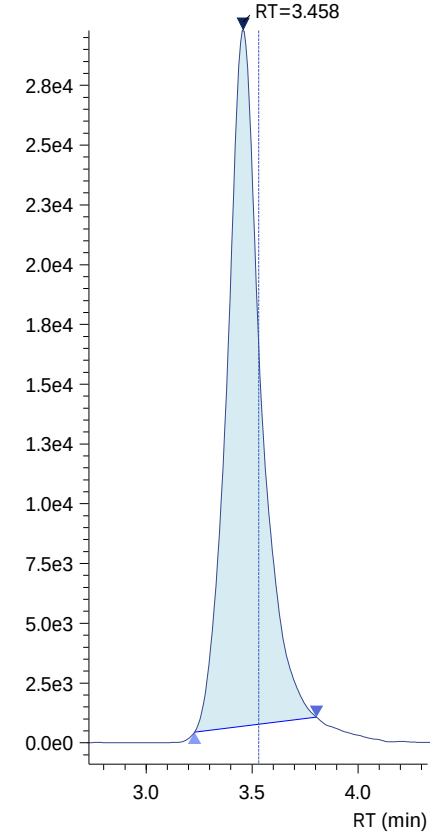
R1 101.00>85.00 (-) A=1993 3.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=324942 2.98e4



Insight Report

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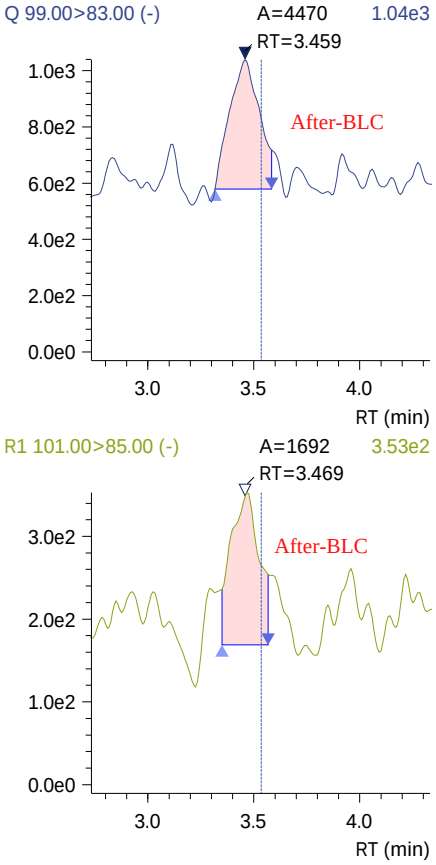
EQ2400268-03

Sample ID: EQ2400268-03
Date Acquired: 5/31/2024 2:46:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-031.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.459	4470	321396	0.1050	ng/mL	101.00 >85.00	37.85	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.456	321396	321396	1.0000	ng/mL	----	----	

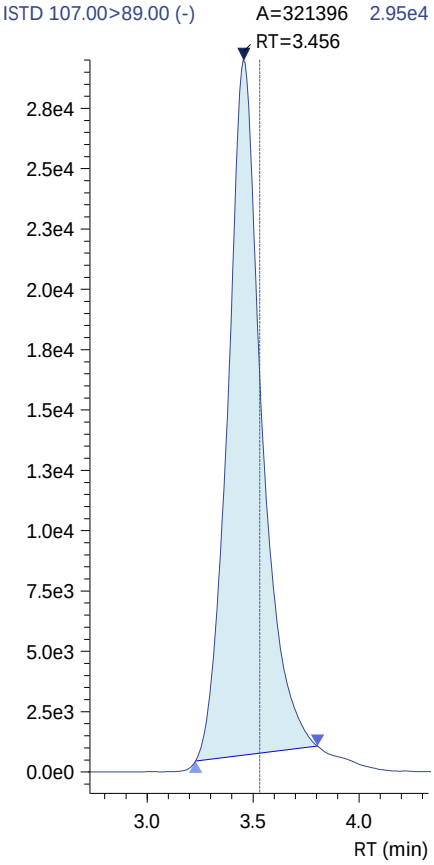
Perchlorate

Conc 0.1050
R#1 37.85 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

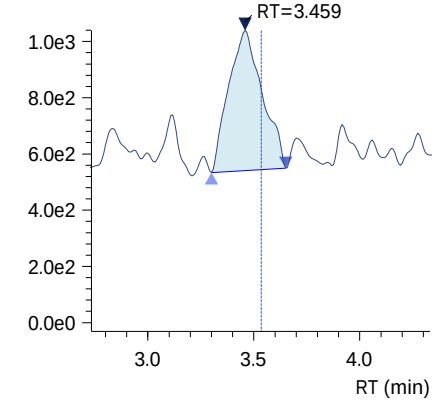
EQ2400268-03

Sample ID: EQ2400268-03
Date Acquired: 5/31/2024 2:46:53 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-031.lcd
Vial: 27 | Inj. Volume: 10.0000uL | Tray: 2

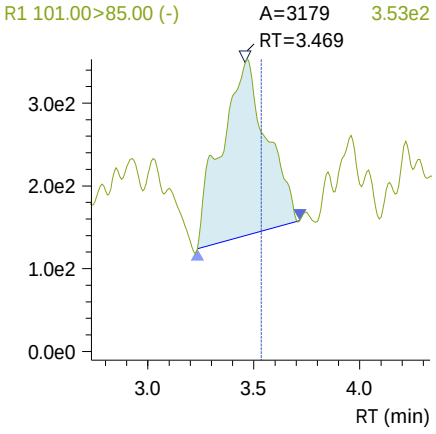
Perchlorate

Conc 0.1299
R#1 57.50 (34.10)

Q 99.00>83.00 (-) A=5529 1.04e3



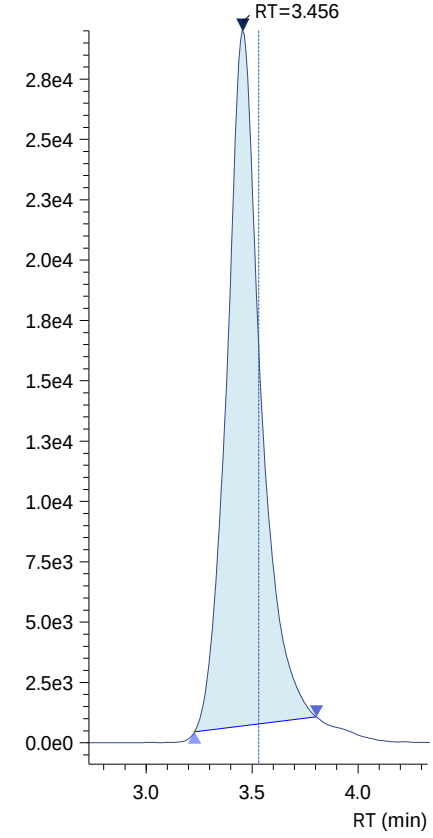
R1 101.00>85.00 (-) A=3179 3.53e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=321396 2.95e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

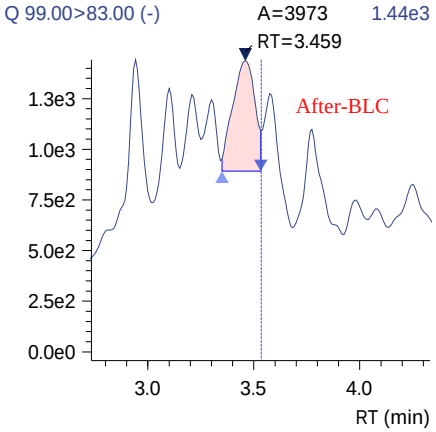
EQ2400268-04

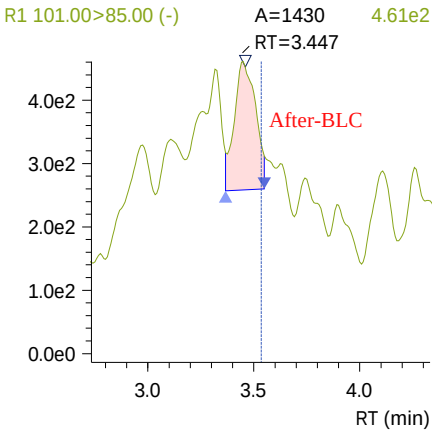
Sample ID: EQ2400268-04
Date Acquired: 5/31/2024 2:52:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-032.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.459	3973	328459	0.0913	ng/mL	101.00 >85.00	35.99	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.458	328459	328459	1.0000	ng/mL	----	----	

Perchlorate

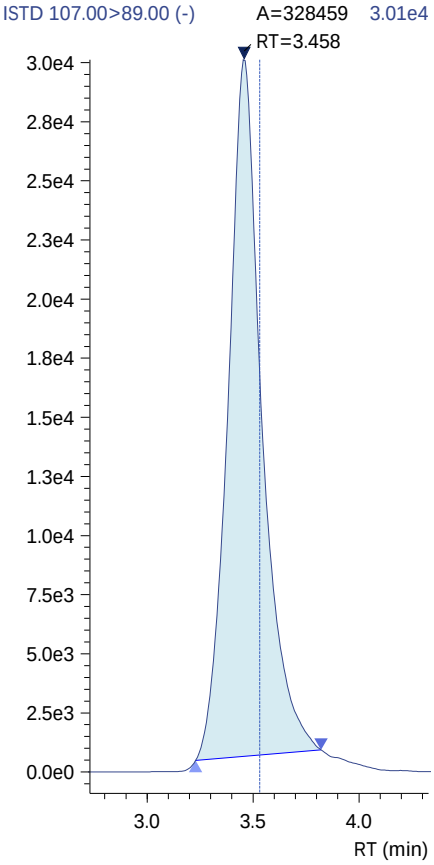
Conc 0.0913
R#1 35.99 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

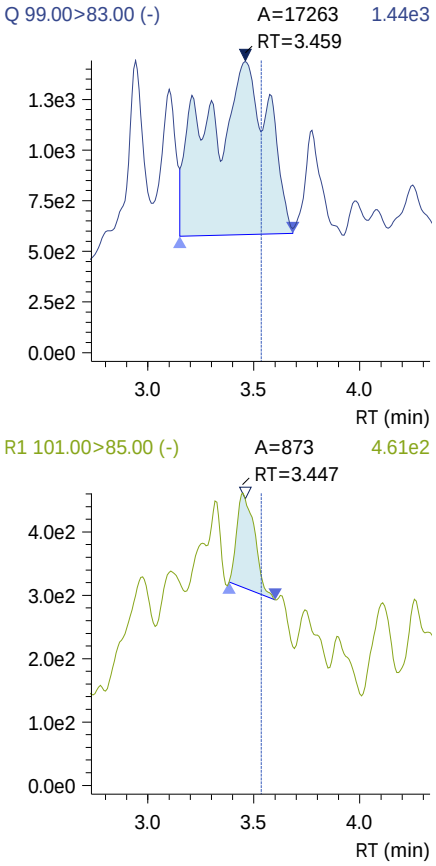
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EQ2400268-04

Sample ID: EQ2400268-04
Date Acquired: 5/31/2024 2:52:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-032.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 2

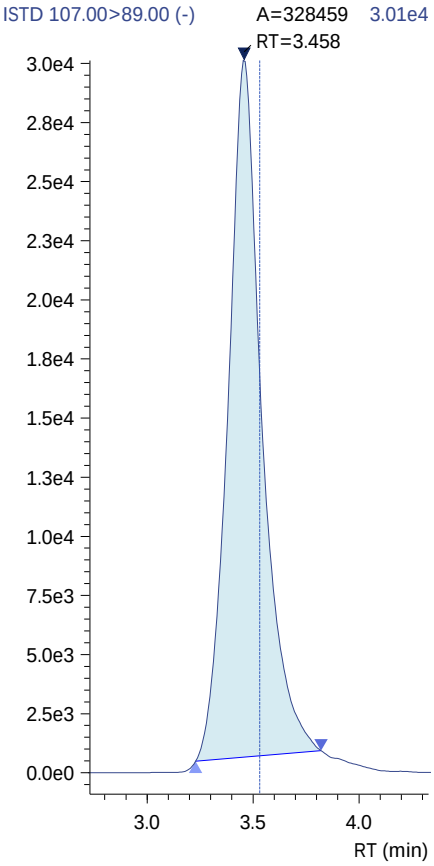
Perchlorate

Conc 0.3968
R#1 5.06 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

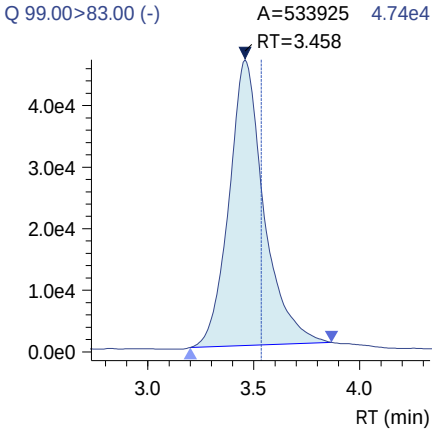
CCV

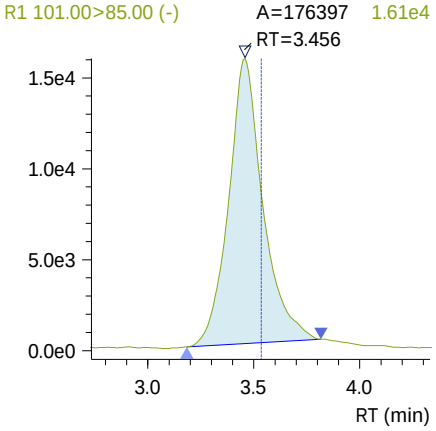
Sample ID: CCV
Date Acquired: 5/31/2024 3:20:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-037.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	533925	356549	11.3052	ng/mL	101.00 >85.00	33.04	23.30 -43.28
Sodium Perchlorate-18O4_IS	M	3.455	356549	356549	1.0000	ng/mL	----	----	

Perchlorate

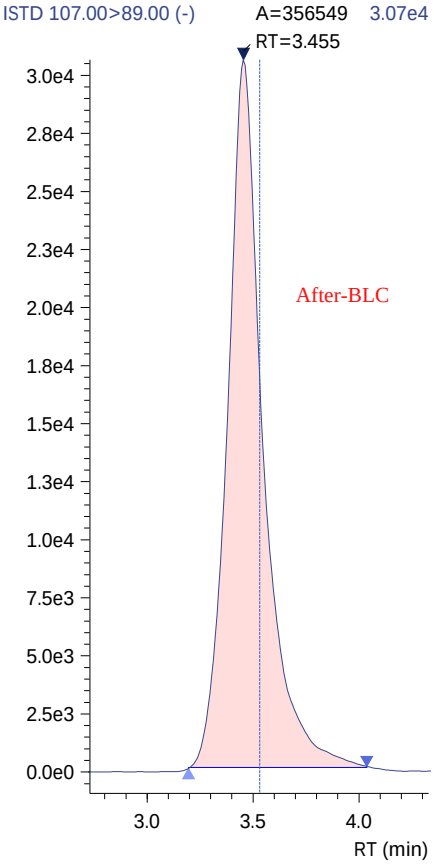
Conc 11.3052
R#1 33.04 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

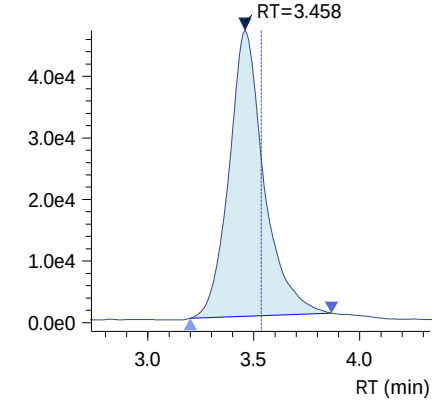
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 3:20:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-037.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

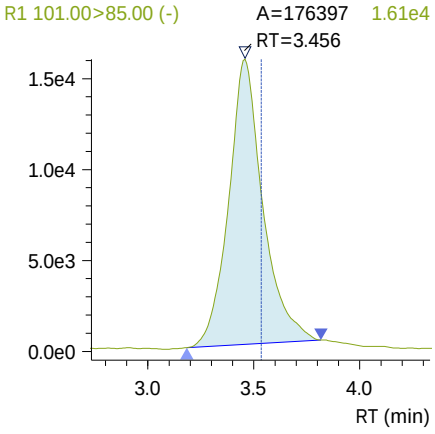
Perchlorate

Conc 12.1119
R#1 33.04 (34.10)

Q 99.00>83.00 (-) A=533925 4.74e4



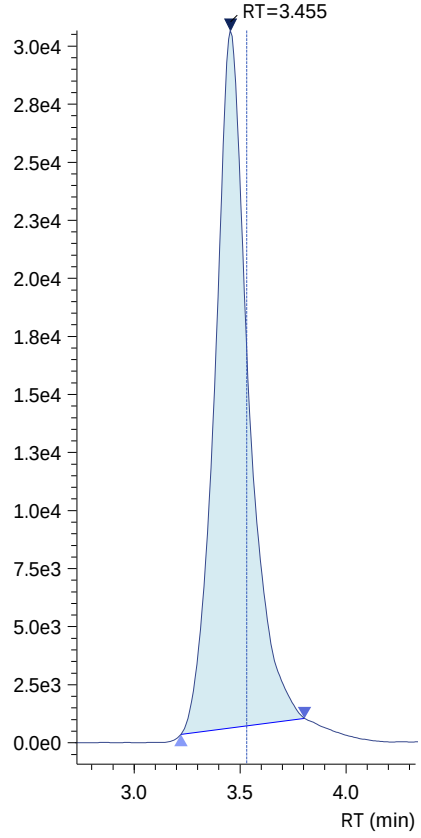
R1 101.00>85.00 (-) A=176397 1.61e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=332801 3.07e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

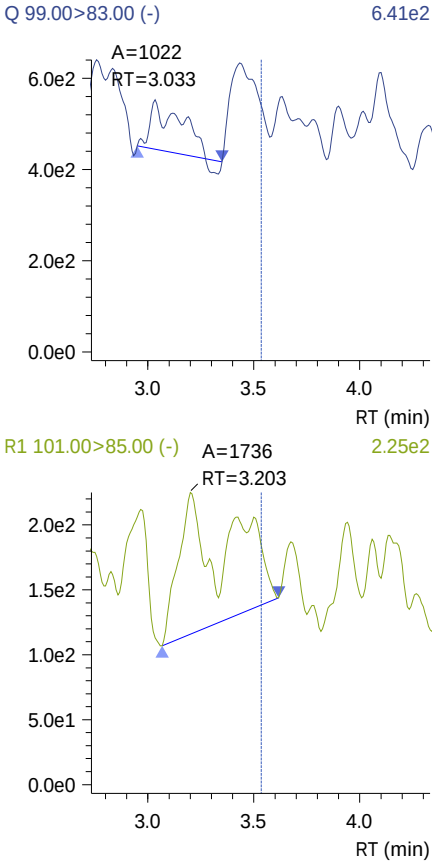
IB

Sample ID: IB
Date Acquired: 5/31/2024 3:25:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-038.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	364565	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.457	364565	364565	1.0000	ng/mL	----	----	

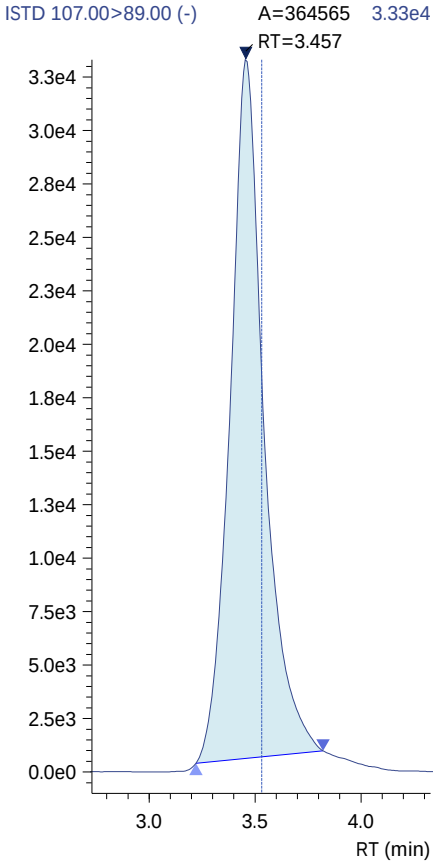
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:04:26 PM

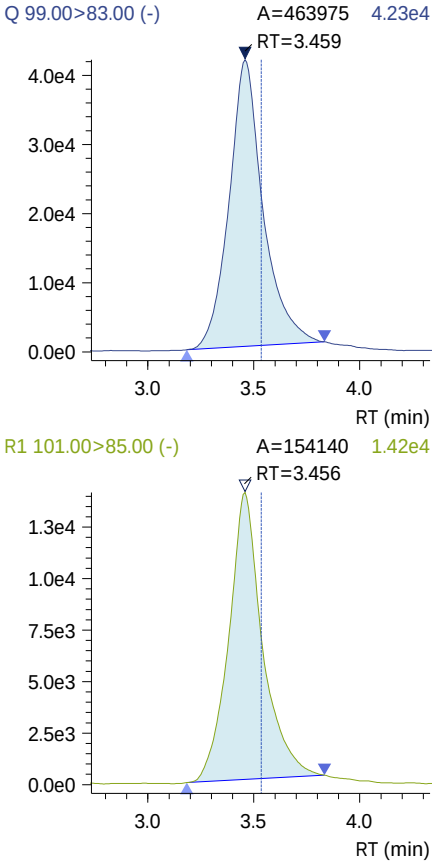
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 4:26:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-049.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	463975	315667	11.0964	ng/mL	101.00 >85.00	33.22	23.30 -43.28
Sodium Perchlorate-18O4_IS	M	3.456	315667	315667	1.0000	ng/mL	----	----	

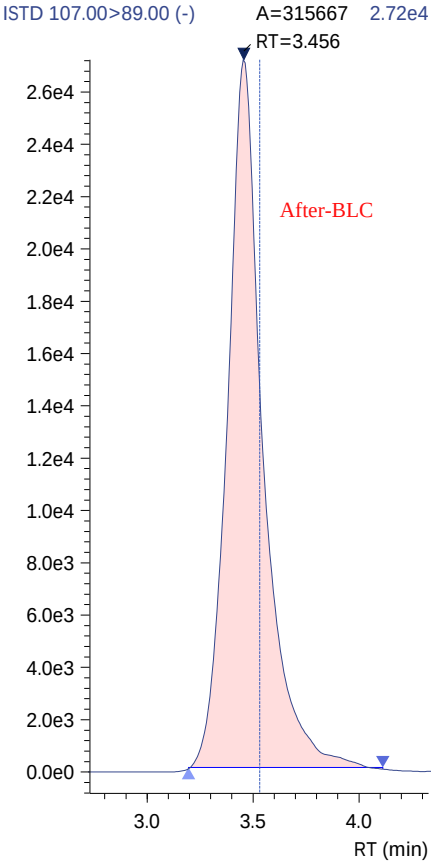
Perchlorate

Conc 11.0964
R#1 33.22 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

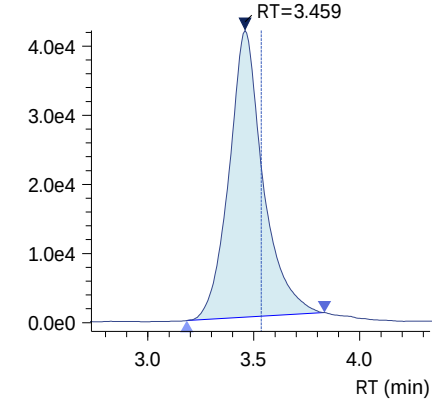
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 4:26:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-049.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

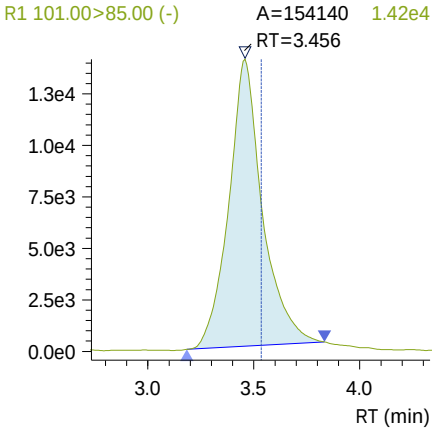
Perchlorate

Conc 11.8107
R#1 33.22 (34.10)

Q 99.00>83.00 (-) A=463975 4.23e4



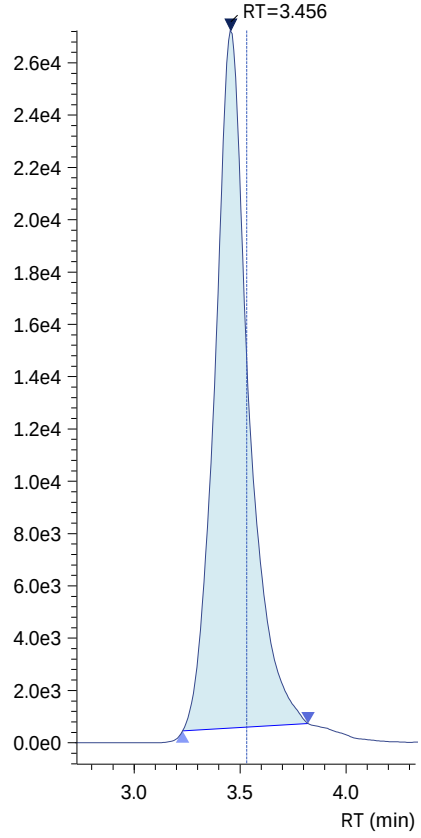
R1 101.00>85.00 (-) A=154140 1.42e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=296575 2.72e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

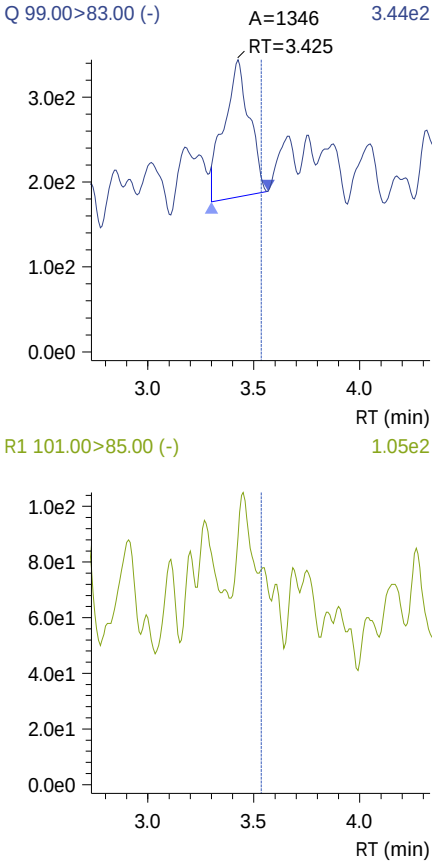
IB

Sample ID: IB
Date Acquired: 5/31/2024 4:32:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-050.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	342445	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate -18O4_IS	M	3.457	342445	342445	1.0000	ng/mL	----	----	

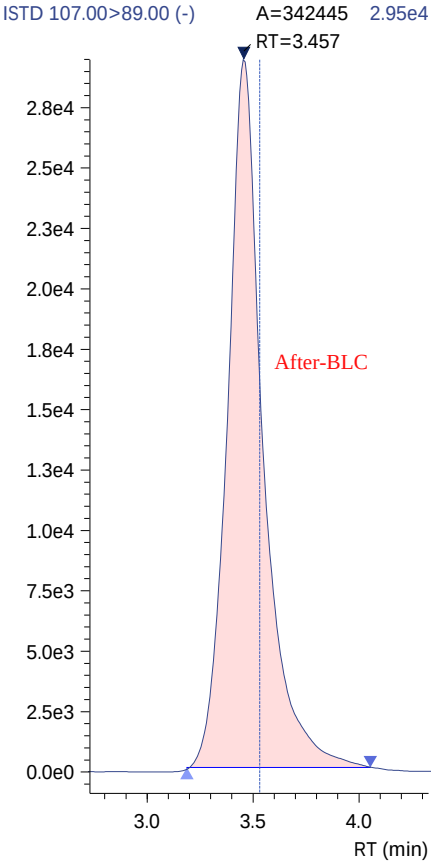
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

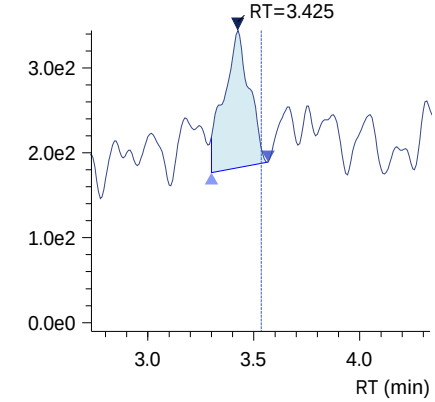
IB

Sample ID: IB
Date Acquired: 5/31/2024 4:32:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-050.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

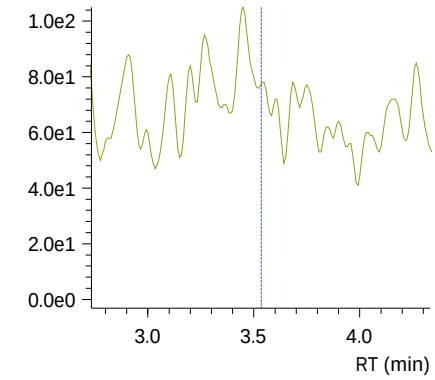
Perchlorate

Conc 0.0318
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1346 3.44e2



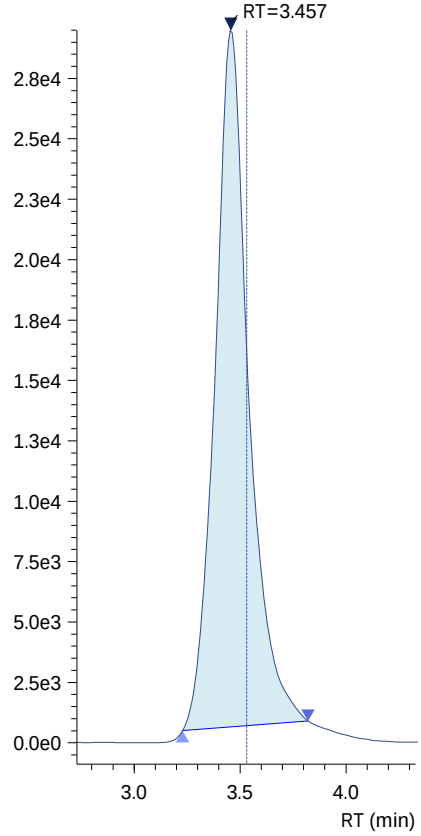
R1 101.00>85.00 (-) 1.05e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=319519 2.95e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

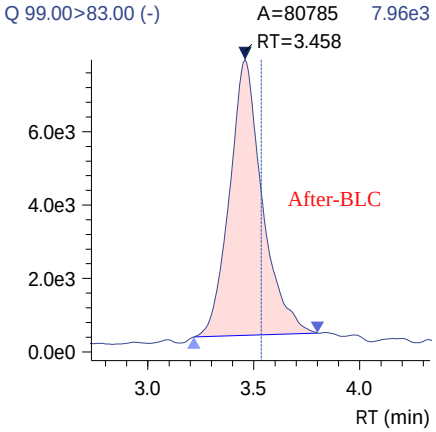
E2400568-01 10000X

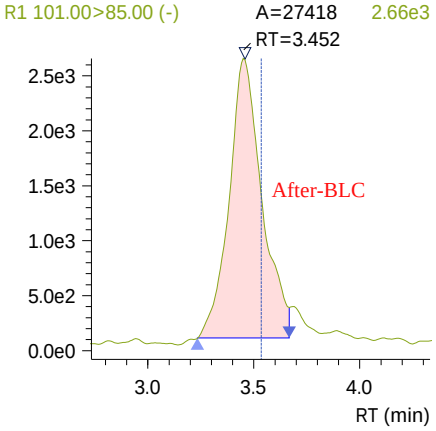
Sample ID: E2400568-01 10000X
Date Acquired: 5/31/2024 5:10:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-057.lcd
Vial: 46 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.458	80785	290046	2.1027	ng/mL	101.00 >85.00	33.94	23.30 -43.28
Sodium Perchlorate -18O4_IS	Auto	3.455	290046	290046	1.0000	ng/mL	----	----	

Perchlorate

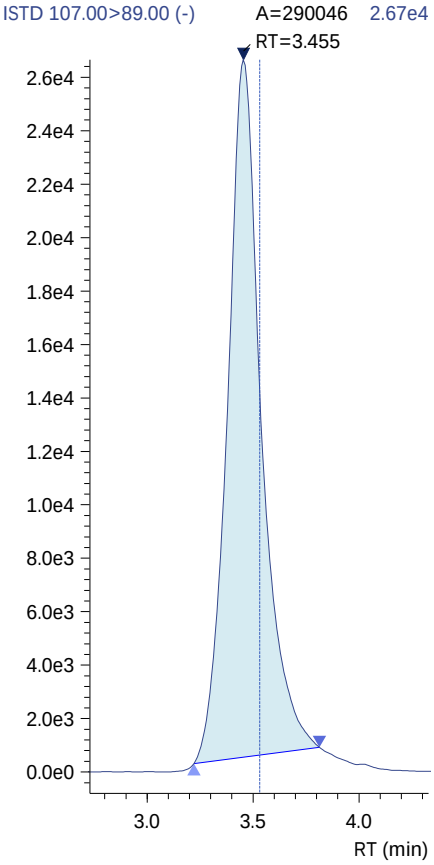
Conc 2.1027
R#1 33.94 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

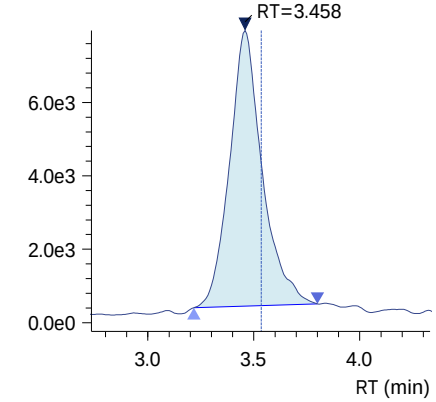
E2400568-01 10000X

Sample ID: E2400568-01 10000X
Date Acquired: 5/31/2024 5:10:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-057.lcd
Vial: 46 | Inj. Volume: 10.0000uL | Tray: 2

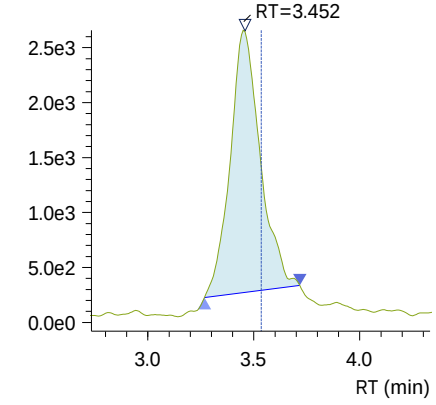
Perchlorate

Conc 2.1027
R#1 29.25 (34.10)

Q 99.00>83.00 (-) A=80785 7.96e3



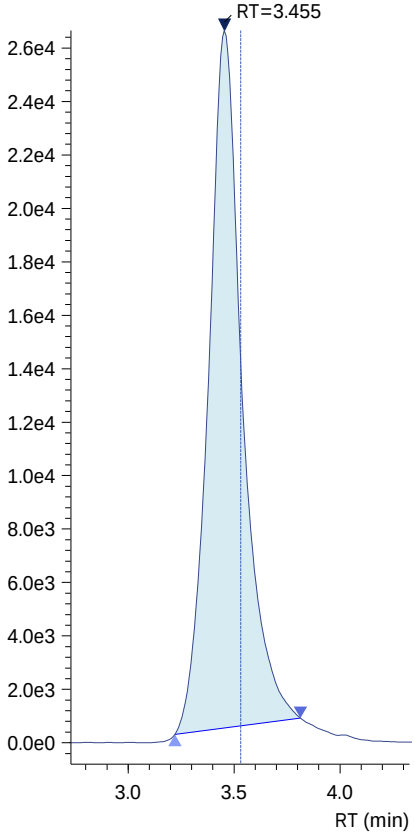
R1 101.00>85.00 (-) A=23633 2.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=290046 2.67e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

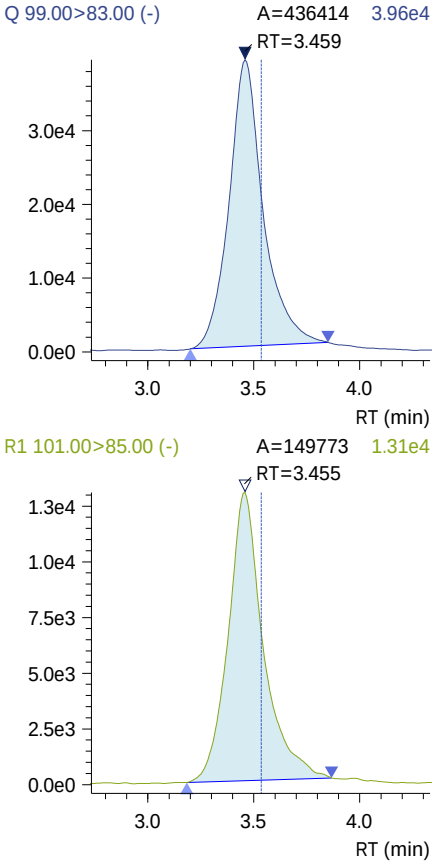
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 5:16:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-058.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	436414	298706	11.0	ng/mL	101.00	34.32	23.30
					299		>85.00		-43.28
Sodium Perchlorate -18O4_IS	M	3.457	298706	298706	1.0000	ng/mL	----	----	

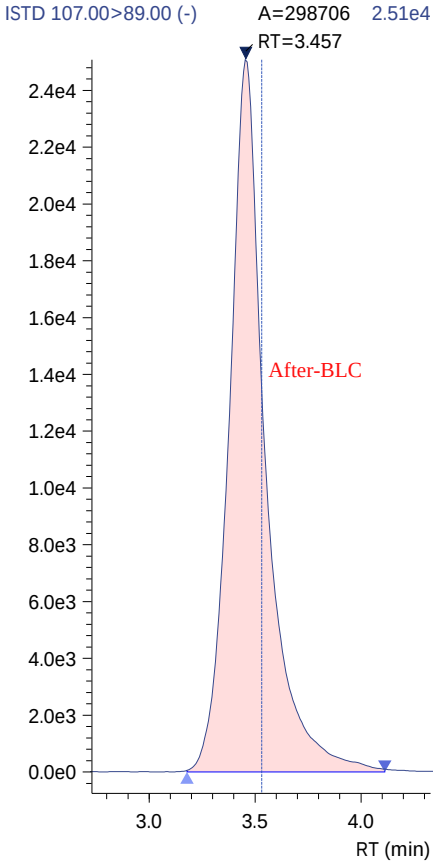
Perchlorate

Conc 11.0299
R#1 34.32 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/3/2024 2:05:44 PM

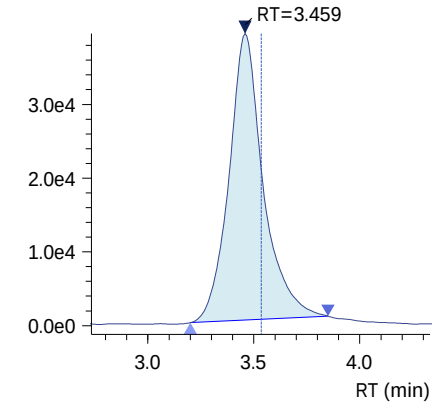
CCV

Sample ID: CCV
Date Acquired: 5/31/2024 5:16:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-058.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

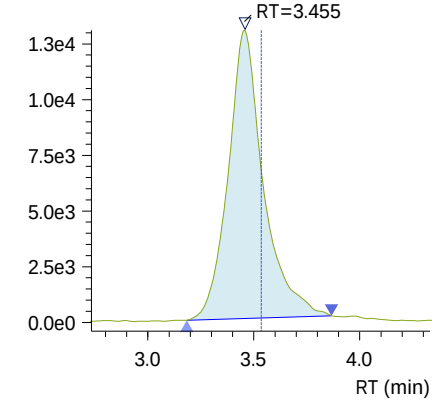
Perchlorate

Conc 12.3175
R#1 34.32 (34.10)

Q 99.00>83.00 (-) A=436414 3.96e4



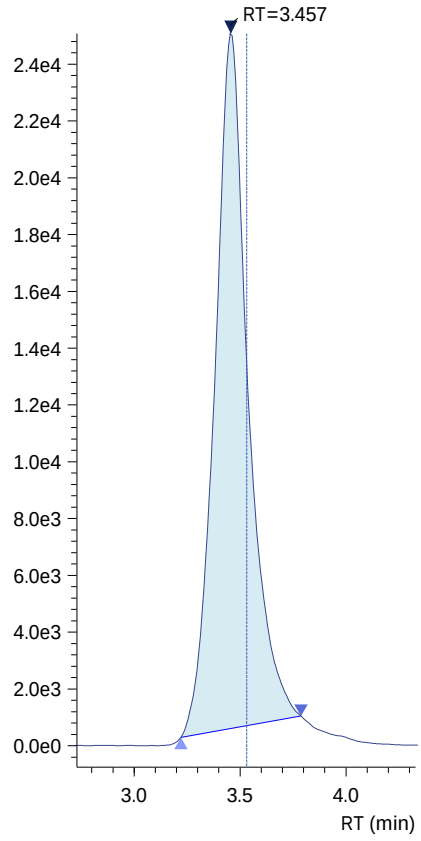
R1 101.00>85.00 (-) A=149773 1.31e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=267482 2.51e4



Insight Report

Printed at 6/3/2024 2:04:26 PM

IB

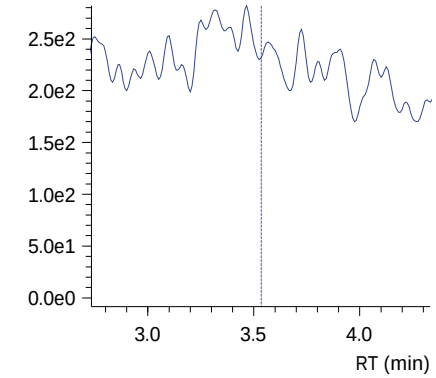
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Date Acquired: 5/31/2024 5:22:04 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240531\20240531-059.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	299832	----	ng/mL	101.00 >85.00	0.00	23.30 -43.28
Sodium Perchlorate-18O4_IS	Auto	3.455	299832	299832	1.0000	ng/mL	----	----	

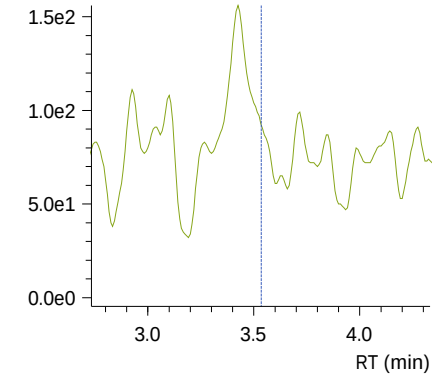
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.82e2



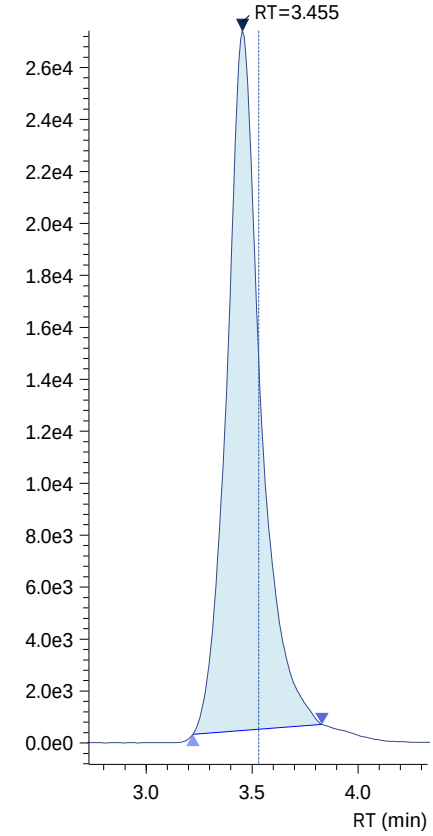
R1 101.00>85.00 (-) 1.56e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=299832 2.74e4



HS24051277 Wetchem 9056_anions_W

ALS WO# HS24051277

Sequence: 052924
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
	STD1		Calibratio	RC1	1.00	1	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD2		Calibratio	RC2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RC3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RC4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RC5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RC6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RC7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1	REP	Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB	REP	Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	REP	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS	REP	Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051277-01	REP	Unknown	RB6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24051277-01DF10	REP	Unknown	RB7	10.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24050839-01MS	REP	Unknown	RB8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24050839-01MSD	REP	Unknown	RC1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV	REP	Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB	REP	Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 052924
Last Update Operator: ALSHS.NoUser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	5/24/2024 3:05:55 PM -0
Anions Processing Method ISO		STD2	5.0	Finished	5/24/2024 3:11:46 PM -0
Anions Processing Method ISO		STD3	5.0	Finished	5/24/2024 3:17:37 PM -0
Anions Processing Method ISO		STD4	5.0	Finished	5/24/2024 3:23:27 PM -0
Anions Processing Method ISO		STD5	5.0	Finished	5/24/2024 3:29:18 PM -0
Anions Processing Method ISO		STD6	5.0	Finished	5/24/2024 3:35:09 PM -0
Anions Processing Method ISO		ICV	5.0	Finished	5/24/2024 3:41:00 PM -0
Anions Processing Method ISO		ICB	5.0	Finished	5/24/2024 3:58:32 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	5/29/2024 8:21:06 AM -0
Anions Processing Method ISO		CCB	5.0	Finished	5/29/2024 8:38:54 AM -0
Anions Processing Method ISO		CCV1	5.0	Finished	5/29/2024 10:01:00 AM -
Anions Processing Method ISO		CCB	5.0	Finished	5/29/2024 10:24:37 AM -
Anions Processing Method ISO		MBLK	5.0	Finished	5/29/2024 10:30:26 AM -
Anions Processing Method ISO		LCS	5.0	Finished	5/29/2024 10:36:15 AM -
Anions Processing Method ISO		HS24051277-01	5.0	Finished	5/29/2024 11:11:19 AM -
Anions Processing Method ISO		HS24051277-01DF10	5.0	Finished	5/29/2024 11:17:08 AM -
Anions Processing Method ISO		HS24050839-01MS	5.0	Finished	5/29/2024 11:22:57 AM -
Anions Processing Method ISO		HS24050839-01MSD	5.0	Finished	5/29/2024 11:28:45 AM -
Anions Processing Method ISO		CCV	5.0	Finished	5/29/2024 11:40:46 AM -
Anions Processing Method ISO		CCB	5.0	Finished	5/29/2024 11:52:46 AM -

Sequence: 052924
Injection #6: STD6

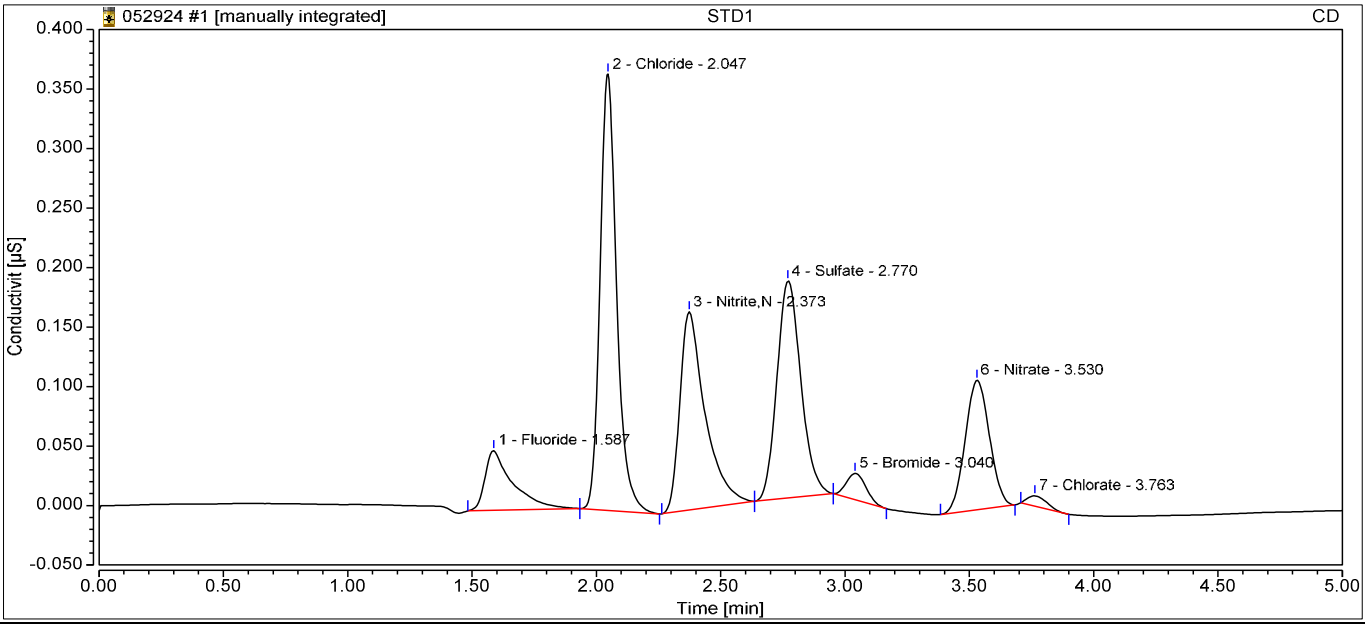
Calibration

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	***Fluoride***	***Quad, WithOffset, 1/A***	***Area***	***6***	***47.8211***	***0.99525***	***-0.0209***	***0.1871***	***0.0010***
2	Chloride	Lin, WithOffset, 1/A	Area	6	14.1093	0.99928	-0.0600	0.1553	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	12.6612	0.99942	-0.0184	0.3400	-0.0034
4	Sulfate	Quad, WithOffset, 1/A	Area	6	13.5125	0.99951	-0.0367	0.1006	0.0000
5	Bromide	Quad, WithOffset, 1/A	Area	6	11.1870	0.99969	-0.0027	0.0421	0.0005
6	Nitrate	Lin, WithOffset, 1/A	Area	6	20.7181	0.99856	-0.0313	0.3430	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	6	24.4785	0.99856	-0.0031	0.0317	0.0000
8	Phosphate	Lin, WithOffset, 1/A	Area	1	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**47.8211**	0.99969			
Minimum					11.1870	**0.99525**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RC1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:05**	*Sample Weight:*	**1.0000**

Run Time:



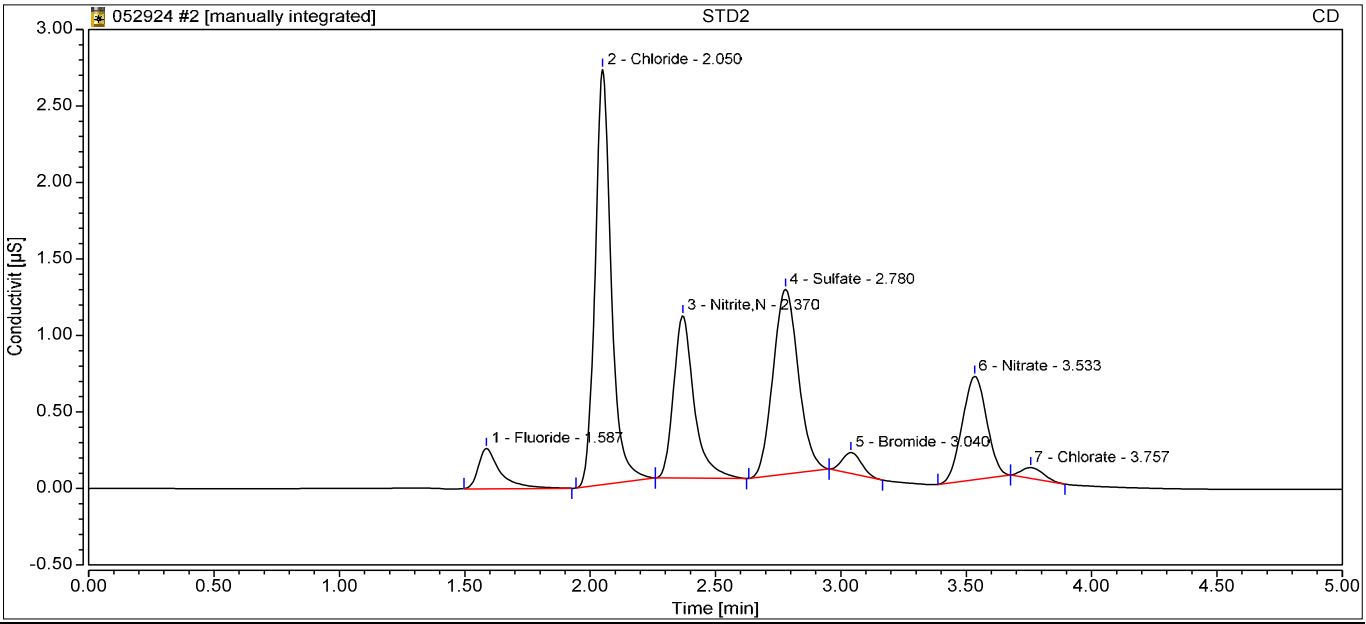
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB*	0.006	0.1461	0.1461	1.0000
2	2.05	Chloride	BMB	0.028	0.5685	0.5685	1.0000
3	2.37	Nitrite,N	BMB	0.020	0.1119	0.1119	1.0000
4	2.77	Sulfate	BMB	0.020	0.5675	0.5675	1.0000
5	3.04	Bromide	BMB	0.002	0.1128	0.1128	1.0000
6	3.53	Nitrate	BMB	0.012	0.1274	0.1274	1.0000
7	3.76	Chlorate	BMB*	0.001	0.1238	0.1238	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.090**		**1.76**	

2 STD2

Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RC2**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:11**	*Sample Weight:*	**1.0000**

Run Time:



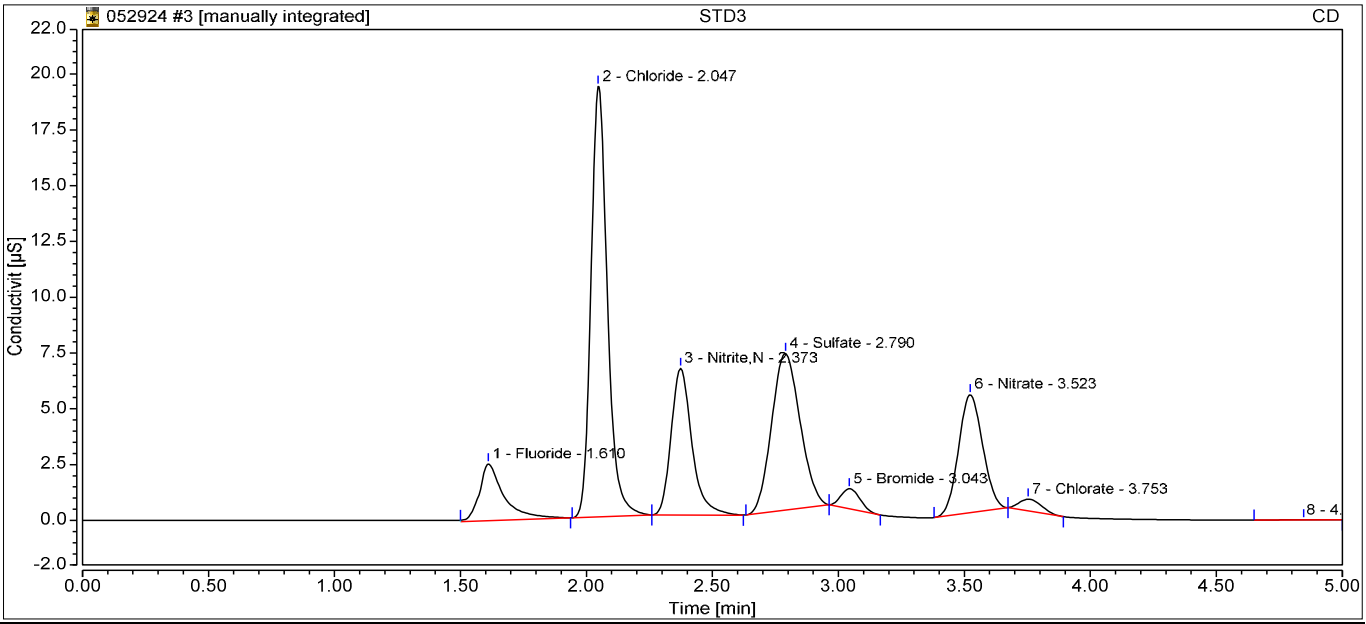
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	MB*	0.027	0.2547	0.2547	1.0000
2	2.05	Chloride	BMB	0.201	1.6835	1.6835	1.0000
3	2.37	Nitrite,N	BMB	0.101	0.3514	0.3514	1.0000
4	2.78	Sulfate	BMB	0.141	1.7687	1.7687	1.0000
5	3.04	Bromide	BMB	0.012	0.3564	0.3564	1.0000
6	3.53	Nitrate	BMB	0.076	0.3143	0.3143	1.0000
7	3.76	Chlorate	BMB	0.007	0.3242	0.3242	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.566**		**5.05**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RC3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:17**	*Sample Weight:*	**1.0000**

Run Time:



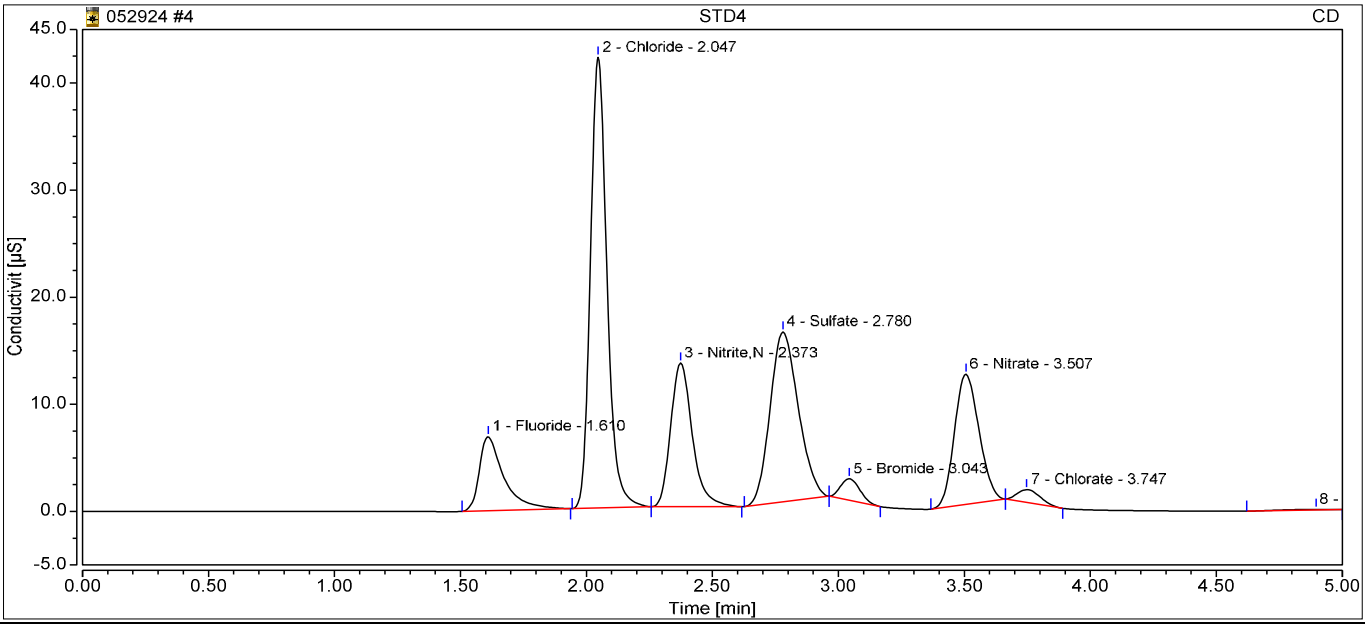
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	MB*	0.288	1.6344	1.6344	1.0000
2	2.05	Chloride	BMB	1.452	9.7390	9.7390	1.0000
3	2.37	Nitrite,N	BMB	0.628	1.9402	1.9402	1.0000
4	2.79	Sulfate	BMB	0.919	9.4564	9.4564	1.0000
5	3.04	Bromide	BMB	0.079	1.9074	1.9074	1.0000
6	3.52	Nitrate	BMB	0.588	1.8050	1.8050	1.0000
7	3.75	Chlorate	BMB	0.054	1.8157	1.8157	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**4.008**		**28.30**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RC4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:23**	*Sample Weight:*	**1.0000**

Run Time:



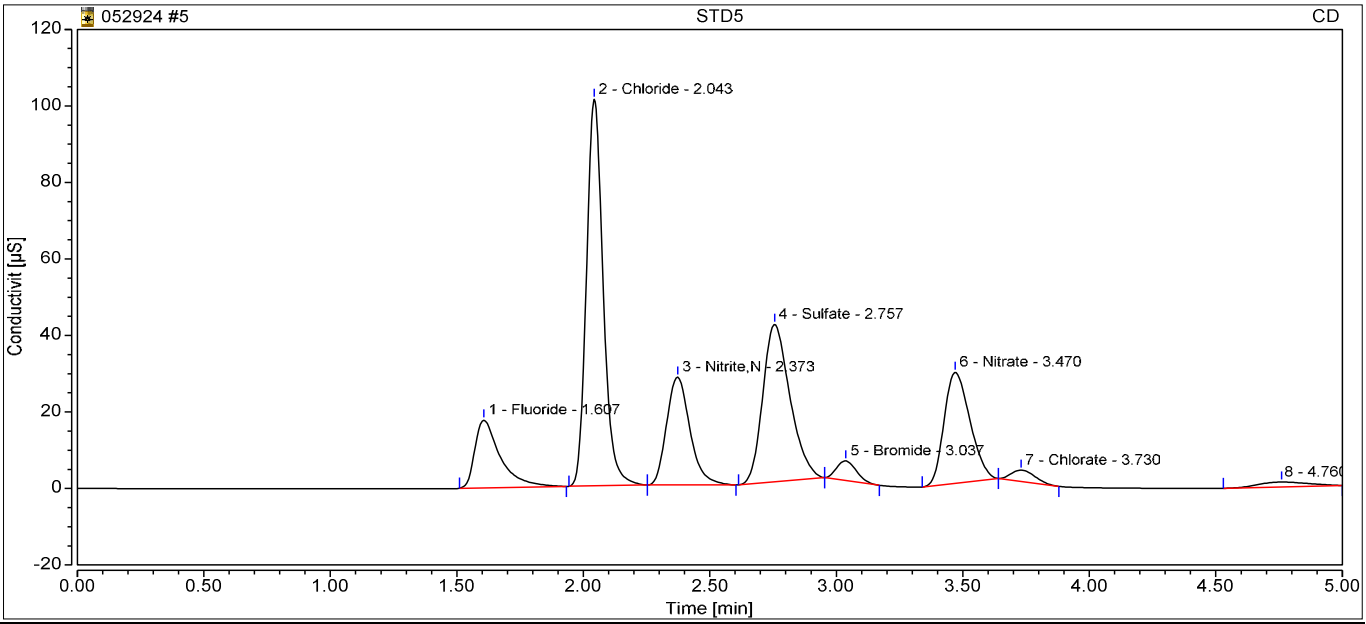
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	0.779	4.1786	4.1786	1.0000
2	2.05	Chloride	BMB	3.198	20.9870	20.9870	1.0000
3	2.37	Nitrite,N	BMB	1.336	4.1573	4.1573	1.0000
4	2.78	Sulfate	BMB	2.058	20.6315	20.6315	1.0000
5	3.04	Bromide	BMB	0.177	4.0924	4.0924	1.0000
6	3.51	Nitrate	BMB	1.374	4.0990	4.0990	1.0000
7	3.75	Chlorate	BMB	0.127	4.0823	4.0823	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.050**		**62.23**	

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RC5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:29**	*Sample Weight:*	**1.0000**

Run Time:



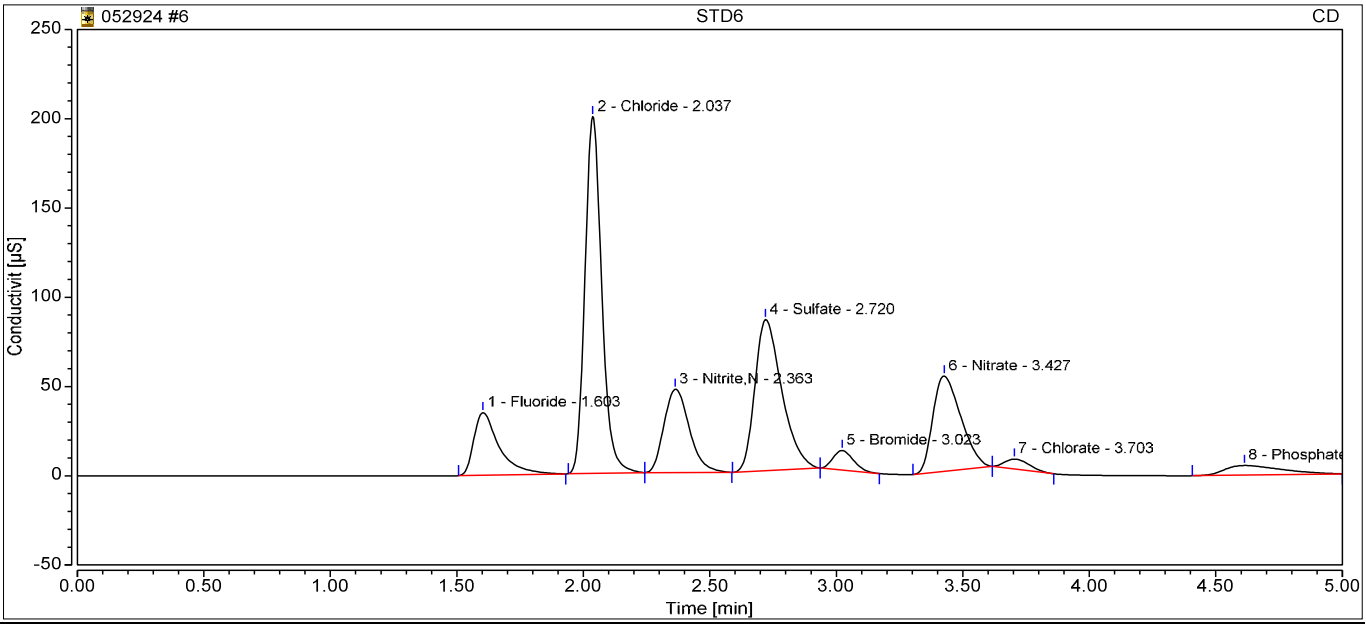
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	2.057	10.5101	10.5101	1.0000
2	2.04	Chloride	BMB	7.745	50.2710	50.2710	1.0000
3	2.37	Nitrite,N	BMB	3.023	9.9291	9.9291	1.0000
4	2.76	Sulfate	BMB	5.132	50.2668	50.2668	1.0000
5	3.04	Bromide	BMB	0.468	10.0602	10.0602	1.0000
6	3.47	Nitrate	BMB	3.437	10.1141	10.1141	1.0000
7	3.73	Chlorate	BMB	0.324	10.2999	10.2999	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.186**		**151.45**	

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RC6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:35**	*Sample Weight:*	**1.0000**

Run Time:



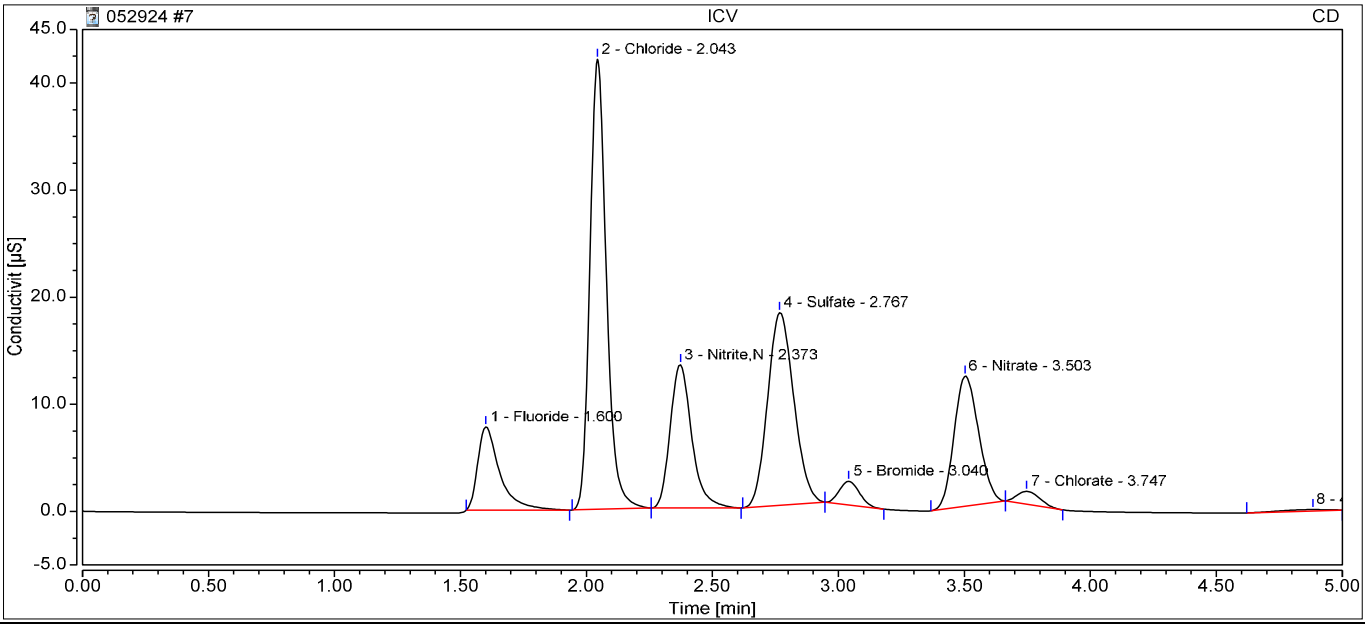
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	4.072	19.7690	19.7690	1.0000
2	2.04	Chloride	BMB	15.349	99.2510	99.2510	1.0000
3	2.36	Nitrite,N	BMB	5.427	20.0103	20.0103	1.0000
4	2.72	Sulfate	BMB	10.440	99.8080	99.8080	1.0000
5	3.02	Bromide	BMB	1.024	19.9678	19.9678	1.0000
6	3.43	Nitrate	BMB	6.842	20.0403	20.0403	1.0000
7	3.70	Chlorate	BMB	0.629	19.8540	19.8540	1.0000
8	4.61	Phosphate	BMB	1.398	n.a.	n.a.	1.0000
Total:			**0.000**	**45.182**		**298.70**	

7 ICV

Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RC7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:41**	*Sample Weight:*	**1.0000**

Run Time:



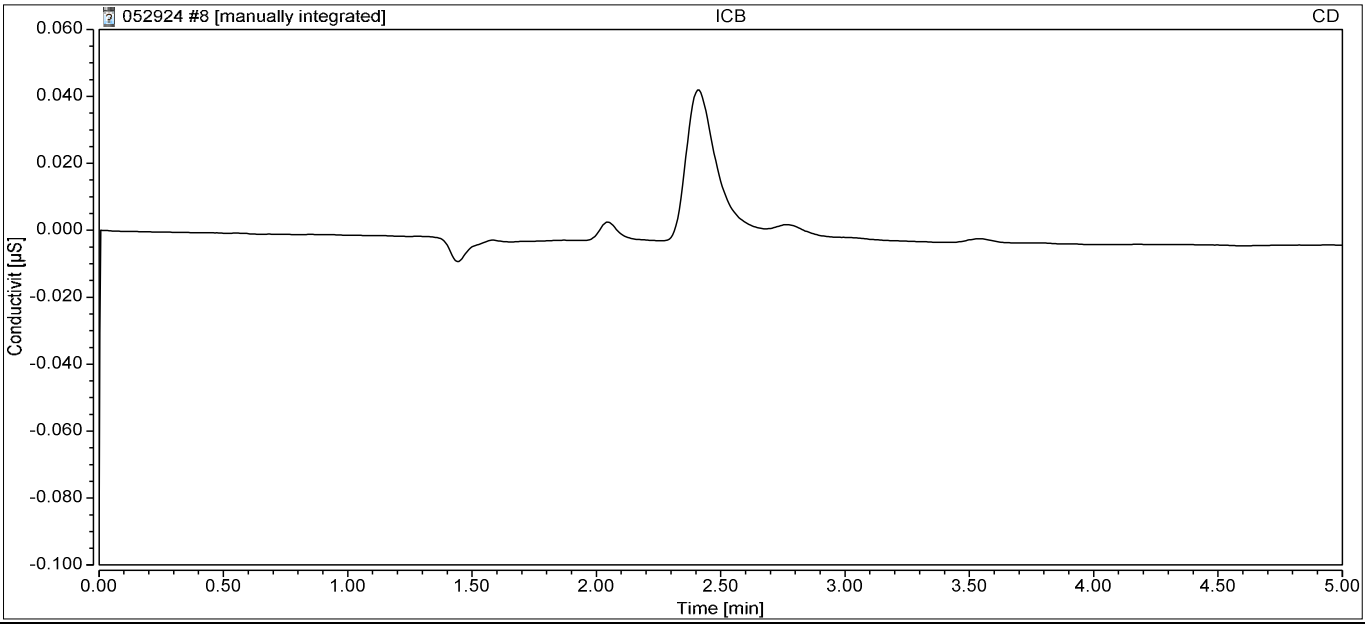
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.787	4.2226	4.2226	1.0000
2	2.04	Chloride	BMB	3.184	20.8964	20.8964	1.0000
3	2.37	Nitrite,N	BMB	1.328	4.1320	4.1320	1.0000
4	2.77	Sulfate	BMB	2.165	21.6763	21.6763	1.0000
5	3.04	Bromide	BMB	0.204	4.6731	4.6731	1.0000
6	3.50	Nitrate	BMB	1.373	4.0937	4.0937	1.0000
7	3.75	Chlorate	BMB	0.126	4.0795	4.0795	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.168**		**63.77**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**RC8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/24/2024 15:58**	*Sample Weight:*	**1.0000**

Run Time:



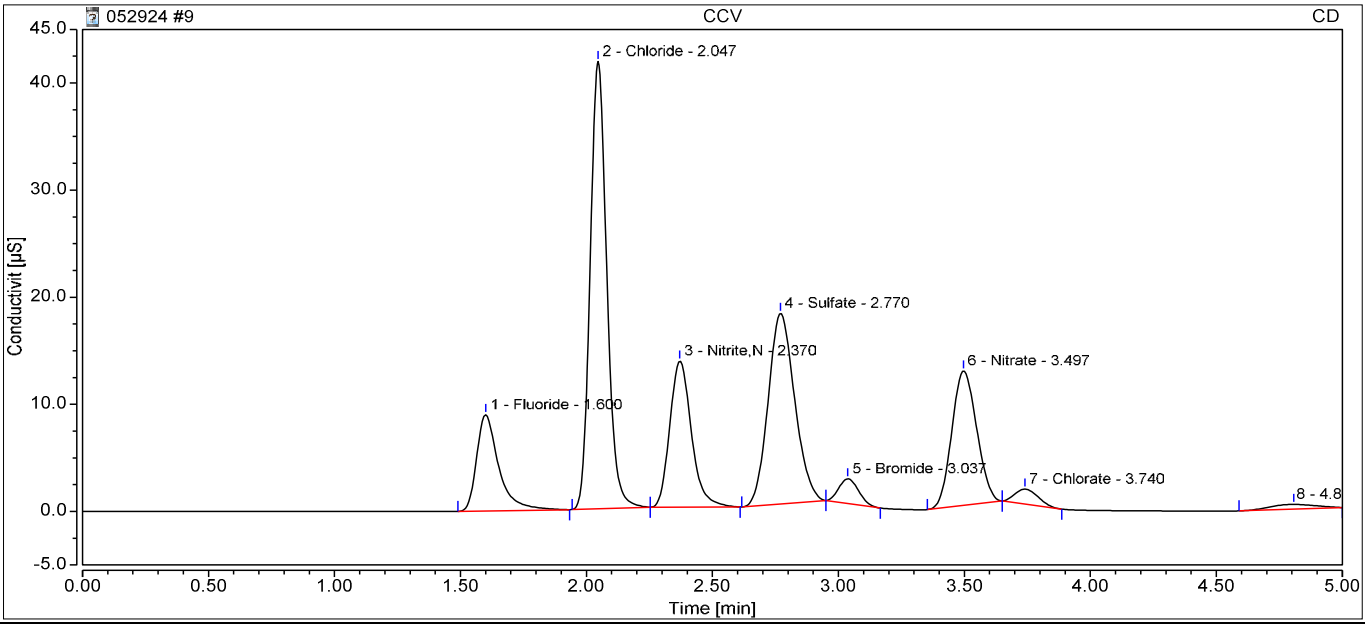
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

9 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 08:21**	*Sample Weight:*	**1.0000**

Run Time:



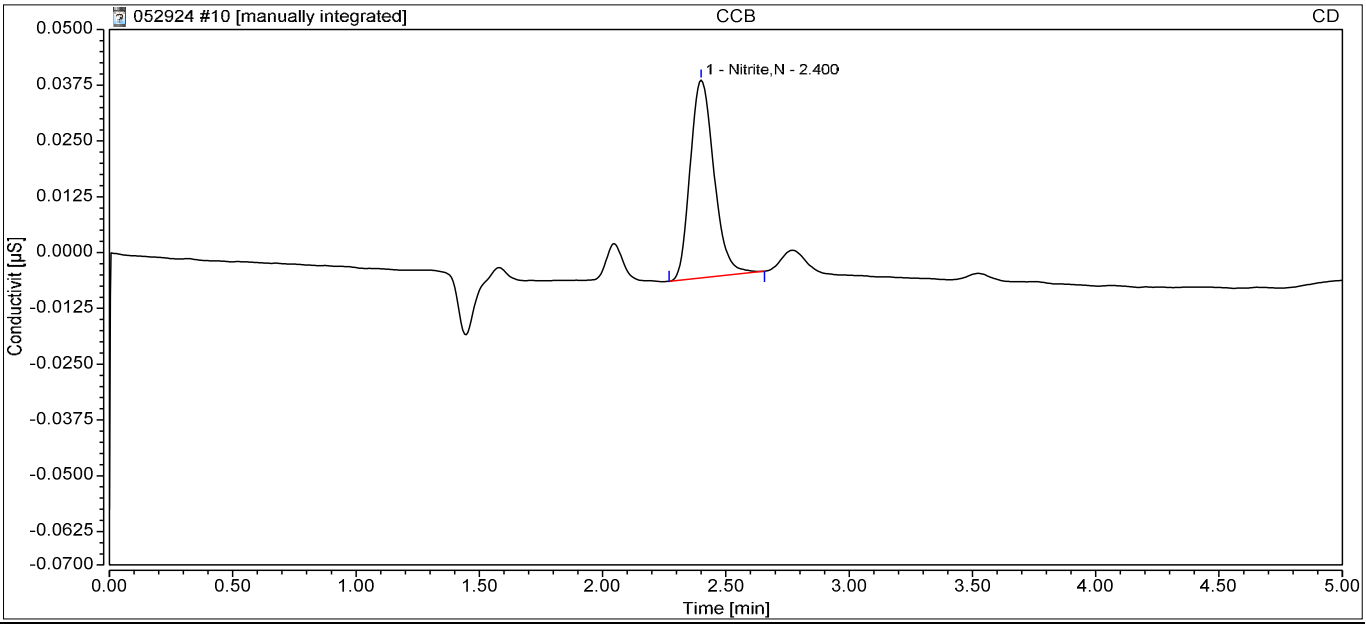
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.915	4.8749	4.8749	1.0000
2	2.05	Chloride	BMB	3.184	20.8975	20.8975	1.0000
3	2.37	Nitrite,N	BMB	1.358	4.2256	4.2256	1.0000
4	2.77	Sulfate	BMB	2.168	21.7079	21.7079	1.0000
5	3.04	Bromide	BMB	0.211	4.8086	4.8086	1.0000
6	3.50	Nitrate	BMB	1.436	4.2782	4.2782	1.0000
7	3.74	Chlorate	BMB	0.151	4.8522	4.8522	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.423**		**65.65**	

10 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 08:38**	*Sample Weight:*	**1.0000**

Run Time:

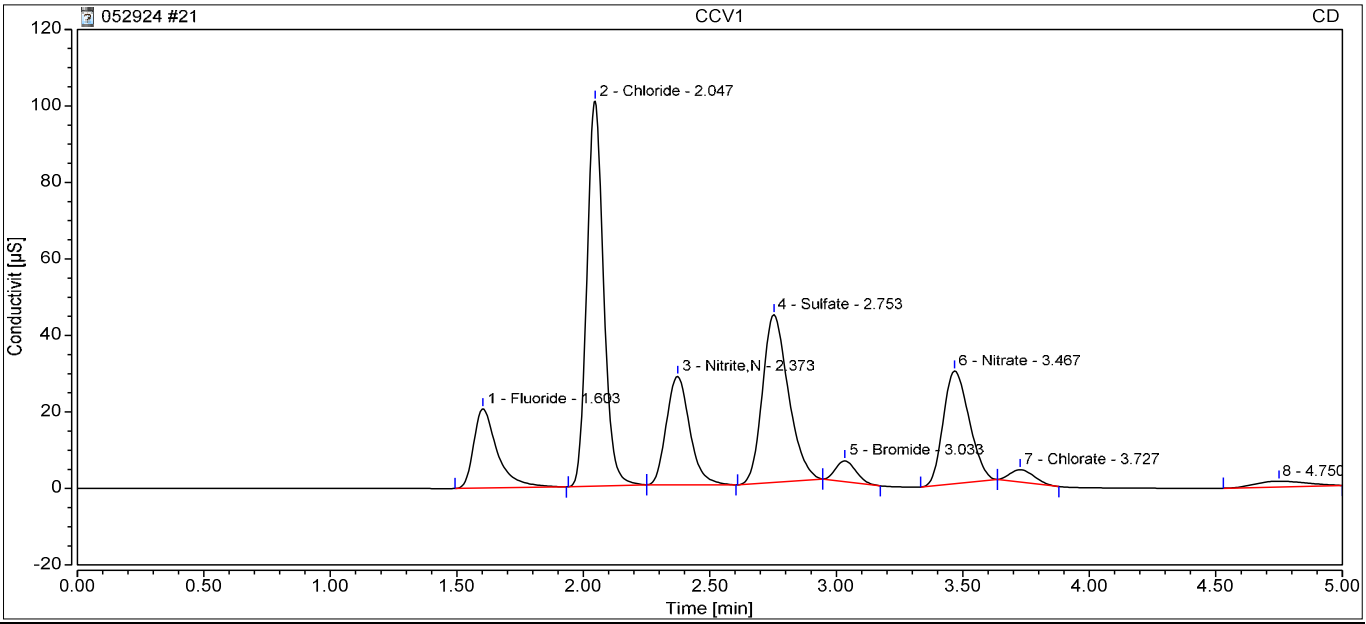


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.005	0.0689	0.0689	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.005**		**0.07**	

21 CCV1			
Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 10:01**	*Sample Weight:*	**1.0000**

Run Time:



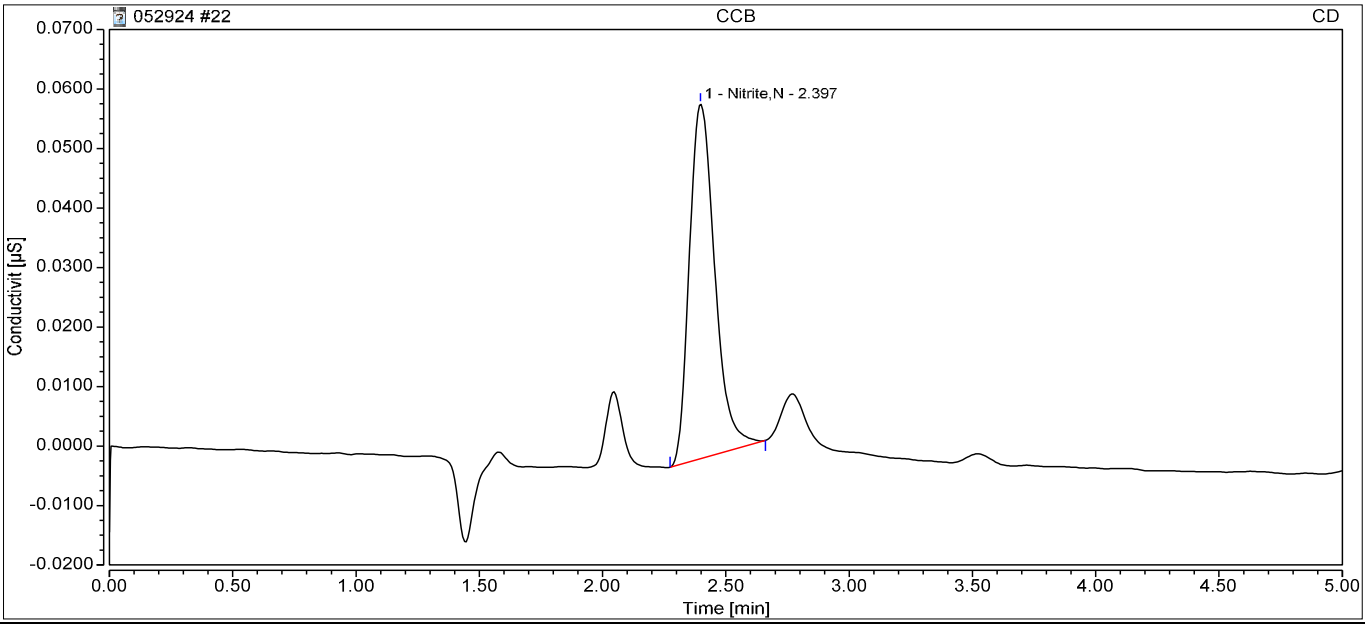
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	2.241	11.3880	11.3880	1.0000
2	2.05	Chloride	BMB	7.698	49.9701	49.9701	1.0000
3	2.37	Nitrite,N	BMB	3.031	9.9565	9.9565	1.0000
4	2.75	Sulfate	BMB	5.208	50.9959	50.9959	1.0000
5	3.03	Bromide	BMB	0.505	10.7630	10.7630	1.0000
6	3.47	Nitrate	BMB	3.504	10.3086	10.3086	1.0000
7	3.73	Chlorate	BMB	0.362	11.4667	11.4667	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**22.548**		**154.85**	

22 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 10:24**	*Sample Weight:*	**1.0000**

Run Time:



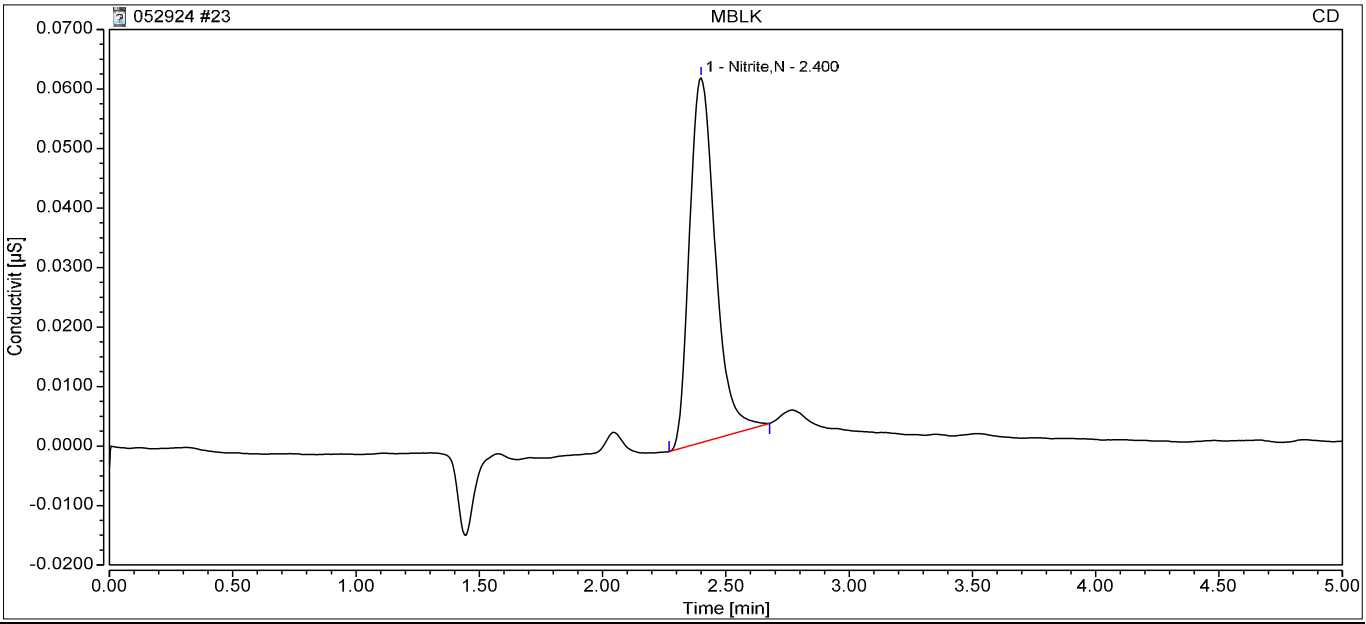
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.007	0.0753	0.0753	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.007**		**0.08**	

23 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 10:30**	*Sample Weight:*	**1.0000**

Run Time:



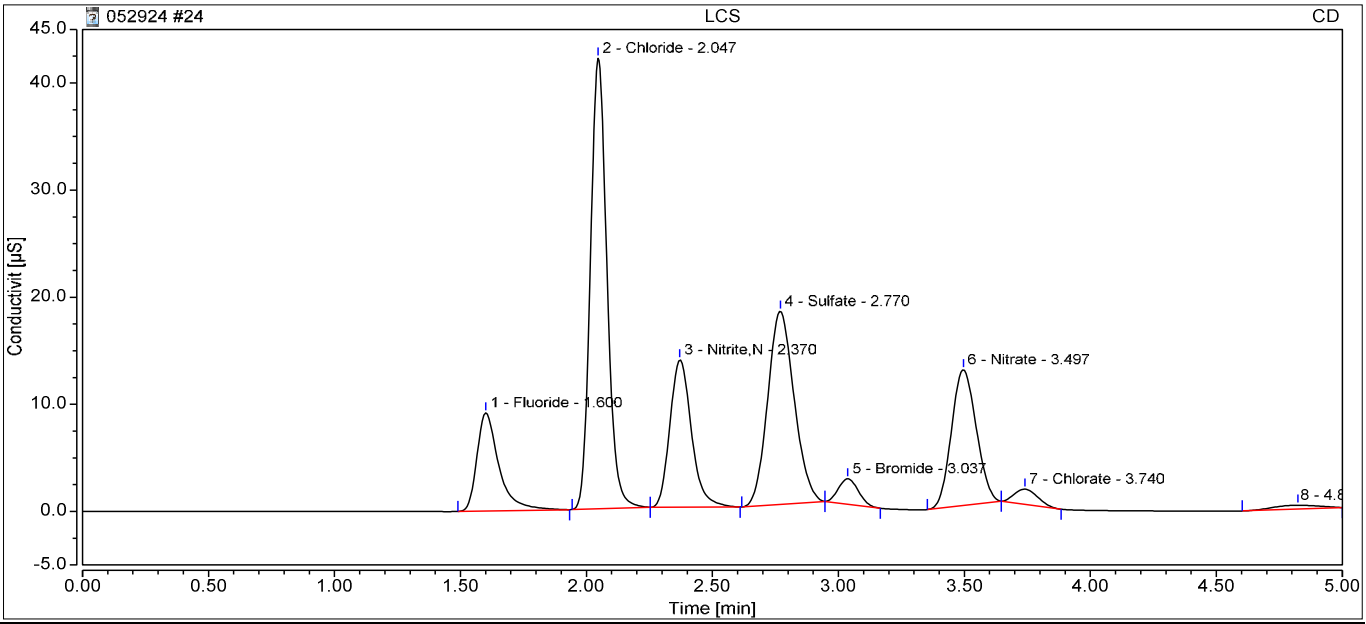
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.007	0.0762	0.0762	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.007**		**0.08**	

24 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 10:36**	*Sample Weight:*	**1.0000**

Run Time:

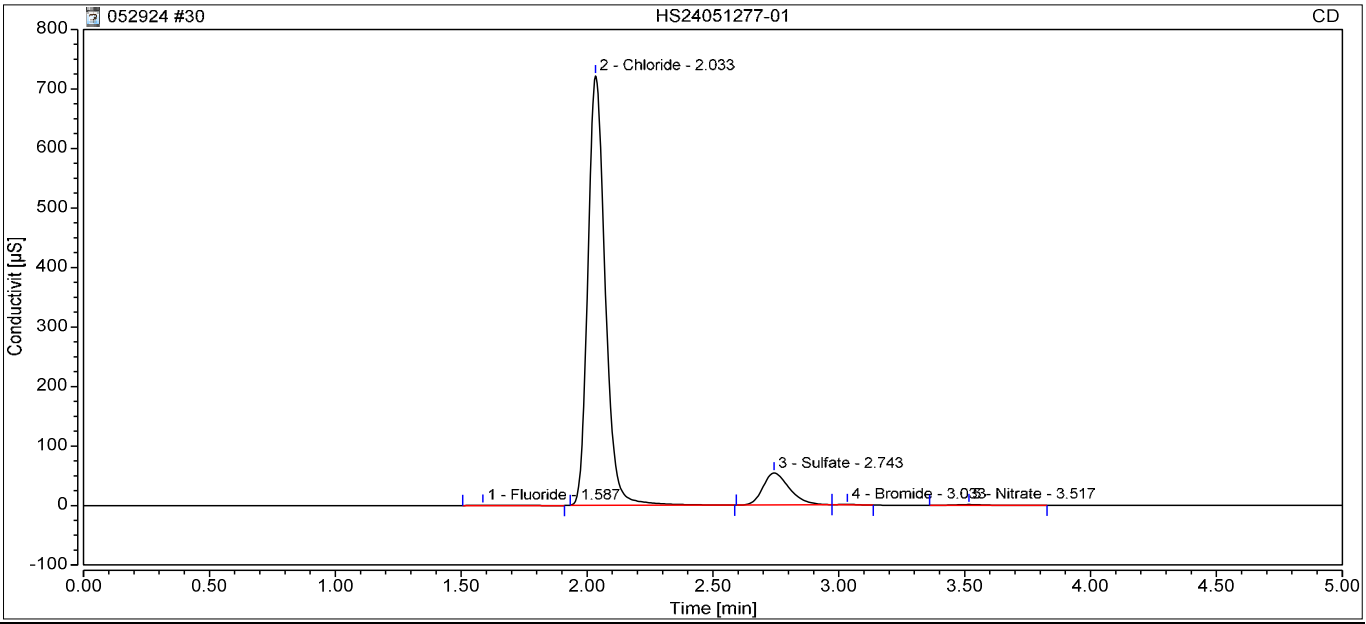


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.926	4.9276	4.9276	1.0000
2	2.05	Chloride	BMB	3.199	20.9929	20.9929	1.0000
3	2.37	Nitrite,N	BMB	1.367	4.2557	4.2557	1.0000
4	2.77	Sulfate	BMB	2.189	21.9087	21.9087	1.0000
5	3.04	Bromide	BMB	0.218	4.9585	4.9585	1.0000
6	3.50	Nitrate	BMB	1.447	4.3119	4.3119	1.0000
7	3.74	Chlorate	BMB	0.153	4.9240	4.9240	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.499**		**66.28**	

30 HS24051277-01			
Sample Name:	**HS24051277-01**	*Injection Volume:*	**5.00**
Vial Number:	**RB6**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 11:11**	*Sample Weight:*	**1.0000**

Run Time:



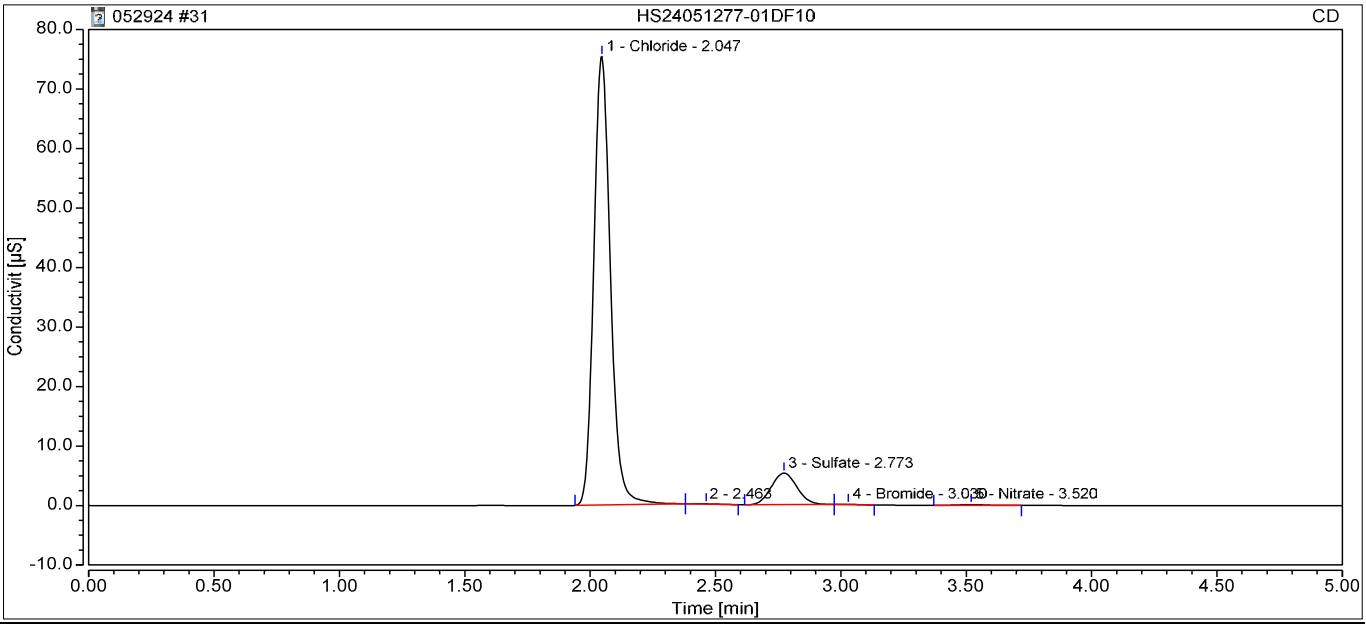
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.043	0.3428	0.3428	1.0000
2	2.03	Chloride	BMB	57.462	370.5125	370.5125	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.74	Sulfate	BMB	6.531	63.5217	63.5217	1.0000
4	3.03	Bromide	BMB	0.049	1.2217	1.2217	1.0000
5	3.52	Nitrate	BMB	0.155	0.5427	0.5427	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**64.241**		**436.14**	

31 HS24051277-01DF10

Sample Name:	**HS24051277-01DF10**	*Injection Volume:*	**5.00**
Vial Number:	**RB7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**10.0000**
Recording Time:	**05/29/2024 11:17**	*Sample Weight:*	**1.0000**

Run Time:



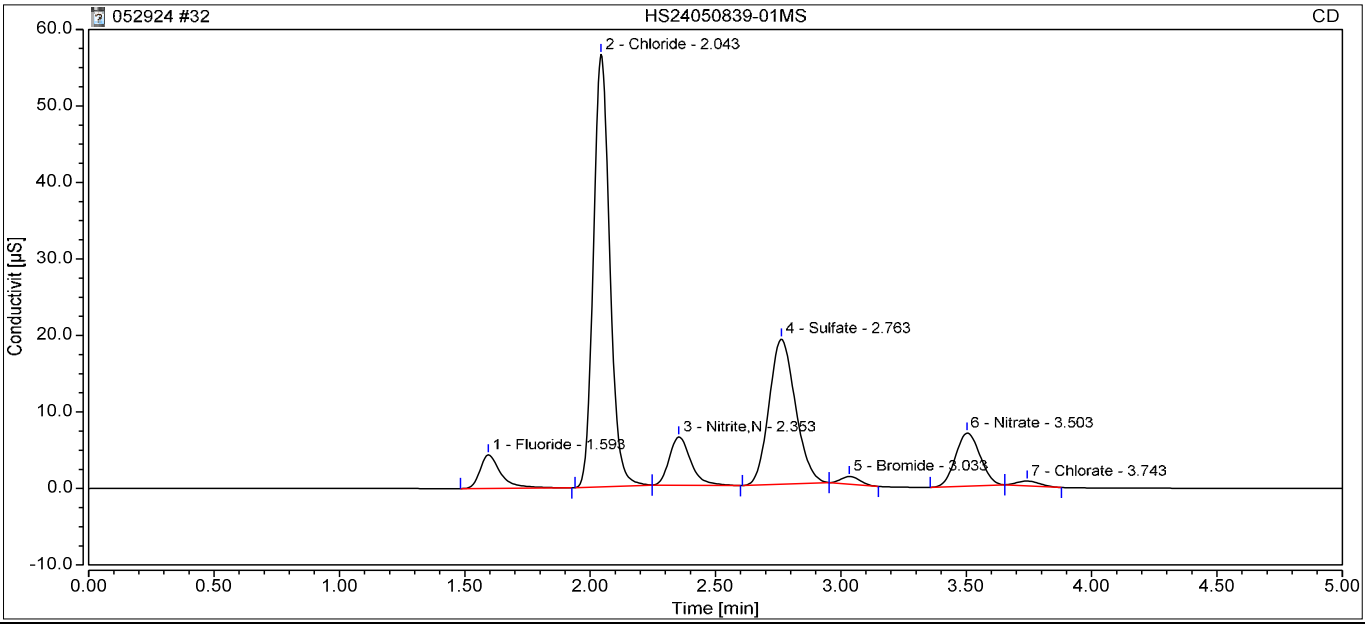
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	10.0000
1	2.05	Chloride	BMB	5.810	37.8113	378.1130	10.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	10.0000
3	2.77	Sulfate	BMB	0.631	6.6162	66.1619	10.0000
4	3.03	Bromide	BMB	0.004	0.1708	1.7080	10.0000
5	3.52	Nitrate	BMB	0.015	0.1356	1.3555	10.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	10.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	10.0000
Total:			**0.000**	**6.461**		**447.34**	

32 HS24050839-01MS

Sample Name:	**HS24050839-01MS**	*Injection Volume:*	**5.00**
Vial Number:	**RB8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 11:22**	*Sample Weight:*	**1.0000**

Run Time:



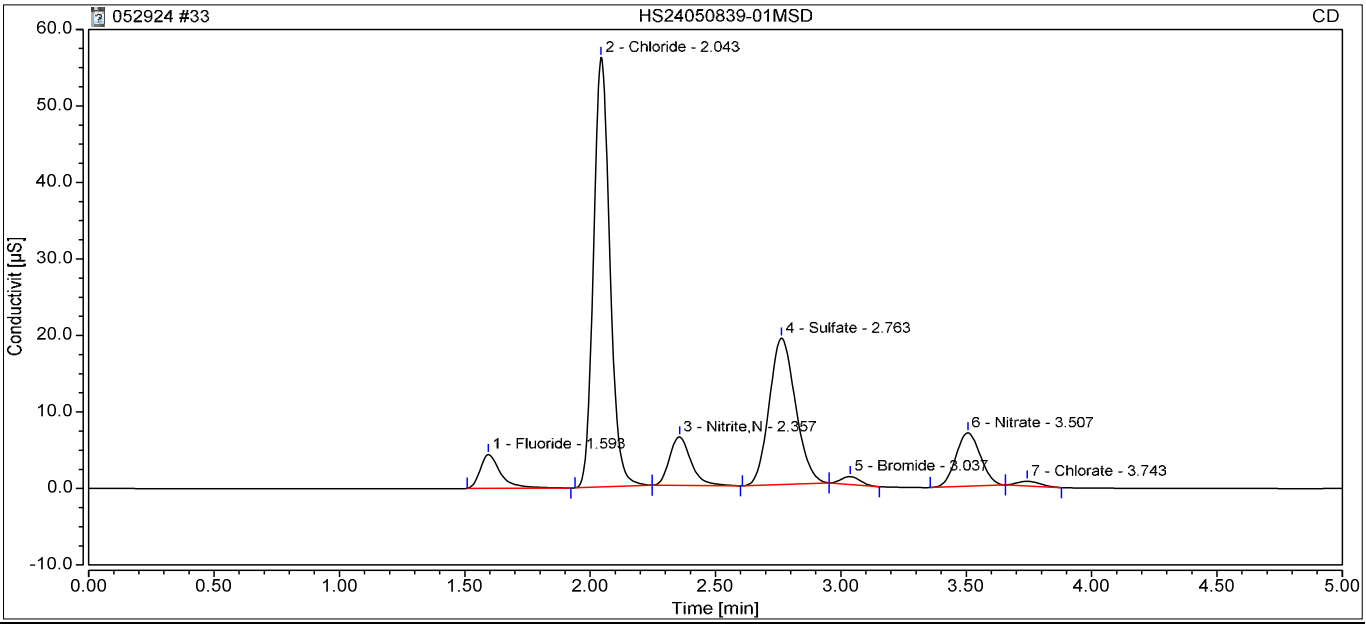
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.422	2.3400	2.3400	1.0000
2	2.04	Chloride	BMB	4.272	27.9020	27.9020	1.0000
3	2.35	Nitrite,N	BMB	0.626	1.9342	1.9342	1.0000
4	2.76	Sulfate	BMB	2.314	23.1298	23.1298	1.0000
5	3.03	Bromide	BMB	0.087	2.0714	2.0714	1.0000
6	3.50	Nitrate	BMB	0.787	2.3874	2.3874	1.0000
7	3.74	Chlorate	BMB	0.064	2.1226	2.1226	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.573**		**61.89**	

33 HS24050839-01MSD

Sample Name:	**HS24050839-01MSD**	*Injection Volume:*	**5.00**
Vial Number:	**RC1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 11:28**	*Sample Weight:*	**1.0000**

Run Time:



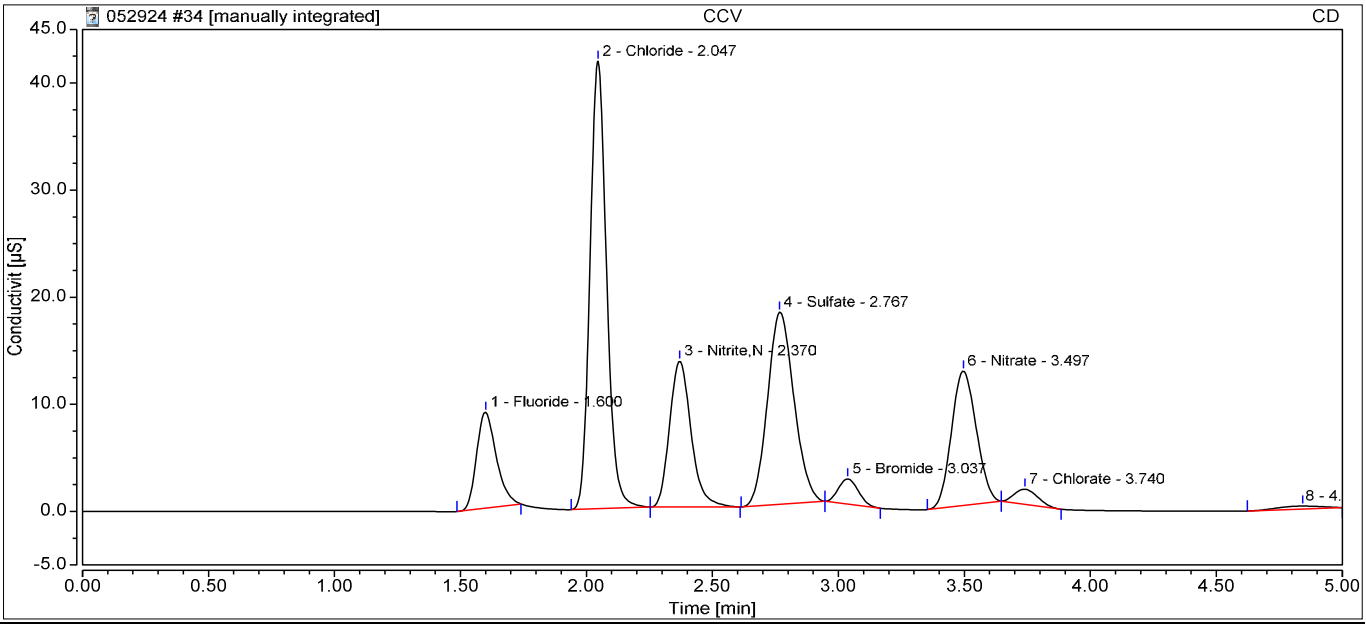
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.413	2.2922	2.2922	1.0000
2	2.04	Chloride	BMB	4.245	27.7313	27.7313	1.0000
3	2.36	Nitrite,N	BMB	0.630	1.9443	1.9443	1.0000
4	2.76	Sulfate	BMB	2.326	23.2468	23.2468	1.0000
5	3.04	Bromide	BMB	0.088	2.1145	2.1145	1.0000
6	3.51	Nitrate	BMB	0.792	2.4009	2.4009	1.0000
7	3.74	Chlorate	BMB	0.064	2.1293	2.1293	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.559**		**61.86**	

34 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 11:40**	*Sample Weight:*	**1.0000**

Run Time:



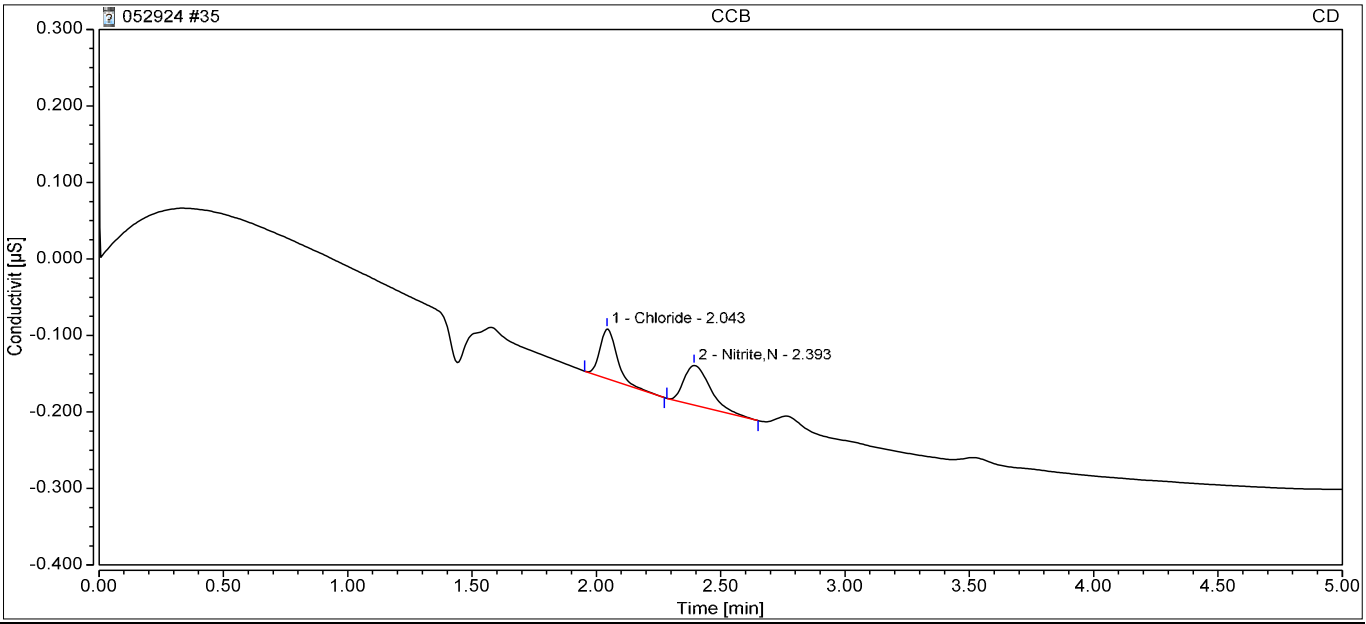
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB*	0.813	4.3562	4.3562	1.0000
2	2.05	Chloride	BMB	3.184	20.8922	20.8922	1.0000
3	2.37	Nitrite,N	BMB	1.353	4.2118	4.2118	1.0000
4	2.77	Sulfate	BMB	2.181	21.8310	21.8310	1.0000
5	3.04	Bromide	BMB	0.216	4.9230	4.9230	1.0000
6	3.50	Nitrate	BMB	1.432	4.2663	4.2663	1.0000
7	3.74	Chlorate	BMB	0.152	4.8778	4.8778	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.331**		**65.36**	

35 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**05/29/2024 11:52**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.04	Chloride	BMB	0.005	0.4195	0.4195	1.0000
2	2.39	Nitrite,N	BMB	0.006	0.0731	0.0731	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.012**		**0.49**	

HS24051277 Wetchem COD

ALS WO# HS24051277

ALS Laboratory Group — **COD Analysis** — **Logbook# 32513**

Method: HACH 8000 (EPA 410.4)		Date: 5-29-24		Low COD–420nm		*Analyst:* TM	
SOP #: HS-WC025		Time: 16:30		High COD–620nm			
WO # / SX #	Bottle #	Init Sample Vol (mL)	Prep Final Volume (mL)	Dilution Factor	Init Conc. (mg/L)	Final Conc. (mg/L)	Comments
CCV50		2	2	1	50		
MBLK					0		
LCS					101		
LCSD					100		
LOQ					15		
HS2405T0884-01					6		
↓ -01MS					55		
↓ -01MSD					57		
HS2405T1252-01					14		
HS2405T1252-04					13		
HS2405T1258-01					21		
CCV100		2	2	1	99		
HS2405T0825-04				5	95		
HS2405T0828-04				5	91		
HS2405T0877-01				1	2		
HS2405T1224-01					46		
HS2405T1232-02					84		
HS2405T1233-02					80		
HS2405T0952-01					81		
HS2405T0953-01					100		
CCV50		2	2	1	50		
HS2405T1276-01					60		
HS2405T1277-01					26		
HS2405T1297-02					74		
HS2405T1242TM-02					48		
HS2405T1065-01					37		
HS2405T1265-01					40		
CCV100		2	2	1	99		

LCS ID #	CCV1 ID#	CCV2 ID#	Vial Lot#:	Reviewed By:
325.101.409	325.101.410	325.101.411	310-060-9018	[illegible]
LCS Prep Date:	**Prep Date:**	**Prep Date:**	**MS ID:**	***Pipette ID:***
4-11-24	→	→	310.060.8214	HC9-COD
Digestor ID:	**Digestor *Temp (°C):***	**Date/Time In Digestor:**	**Date/Time Off Digestor:**	**Batch ID:**
DRB 200	150°	5-29-24 14:00	5-29-24 16:00	467960

HS24051277 Wetchem O&G_1664_W_HS

ALS WO# HS24051277

ALS Laboratory Group Confidential

05232024 O&G WATER

Method: O&G, HEM by EPA 1664A (SOP HS-WC036, Current Revision)

Analyst:	MC
Review By:	
Batch ID:	
LCS/MS Spike ID:	3100608801
Hexane ID:	321500103
Filter Lot:	3100608818
Silica Gel:	

Methanol ID:	3212500104	
1:1 HCl ID:	30010709007	
Na2SO4 Cartridge ID:	3100608810	
Thermo HotBlock Setting (°C):		40
pH Paper ID:	30010709607	
Pipette ID		

Temp Ranges (°C)
Pan Drying: 105-115
Hex Evap: 68-72
HotBlock: 35-50

	grams	mg	Accept.
Init 2.0 mg wt (1.8mg to 2.2mg required):	0.0020	2.0	Yes
Init 1000 mg wt (995mg to 1005mg required):	1.0000	1000	Yes
Final 2.0 mg wt (1.8mg to 2.2mg required):	0.0020	2.0	Yes
Final 1000 mg wt (995mg to 1005mg required):	1.0000	1000	Yes

Pan	Temp Deg C	Actual Deg C	Date	Time
Pan 1st In:	105-115	105	05/23/2024	7:00:00 AM
Pan 1st Out:	105-115	105	05/23/2024	7:10:00 AM
Pan 2nd In:	105-115	105	05/23/2024	8:00:00 AM
Pan 2nd Out:	105-115	105	05/23/2024	8:10:00 AM
Pan 3rd In:	105-115			
Pan 3rd Out:	105-115			
Oven ID:				
Balance ID:	WC Balance-03			

O&G	Temp Deg C	Actual Deg C	Date	Time
O&G 1st In:	68-72	72	05/23/2024	10:00:00 AM
O&G 1st Out:	68-72	72	05/23/2024	10:10:00 AM
O&G 2nd In:	68-72	72	05/23/2024	11:00:00 AM
O&G 2nd Out:	68-72	72	05/23/2024	11:10:00 AM
O&G 3rd In:	68-72			
O&G 3rd Out:	68-72			
Oven ID:	WC Oven 1A			
Balance ID:	WC Balance-03			

O&G
Silica Gel O&G 1st In:
Silica Gel O&G 1st Out:
Silica Gel O&G 2nd In:
Silica Gel O&G 2nd Out:
Silica Gel O&G 3rd In:
Silica Gel O&G 3rd Out:
Oven ID:
Balance ID:

Criteria Change is <0.0005 g | Criteria Change is <4%

$$\text{O \& G (HEM), mg/L} = \frac{\text{Weight (HEM, mg)}}{\text{Volume (Sample Extracted, L)}}$$

Criteria Change is <0.0005 g | Criteria Change is <4%

O & G (SGT

Dish ID	Work Order #	Bottle Number	SGT	Sample Type	pH Check	1st Dry Pan Wt (g)	2nd Dry Pan Wt (g)	3rd Dry Pan Wt (g)	Passes Difference Criteria	Passes % Weight Criteria	Pan Weight (g)	Sample Vol (mL)	70 deg C O&G 1st dry Wt (g)	70 deg C O&G 2nd dry Wt (g)	70 deg C O&G 3rd dry Wt (g)	Passes Difference Criteria	Passes % Weight Criteria	O&G Weight (g)	O&G (mg/L)	Dish ID	Work Order #
1	WMBLK-05232024	1 of 2		MBLK	<2	4.0941	4.0944		Yes	Yes	4.0944	1000	4.0943	4.0943		Yes	Yes	-0.0001	-0.1	1	WMBLK-05232024
2	LCS-05232024	1 of 2		LCS	<2	4.0818	4.0818		Yes	Yes	4.0818	1000	4.1267	4.1267		Yes	Yes	0.0449	44.9	2	LCS-05232024
3	LCSD-05232024	1 of 2		LCSD	<2	4.1413	4.1412		Yes	Yes	4.1412	1000	4.1850	4.1850		Yes	Yes	0.0438	43.8	3	LCSD-05232024
4	HS24051024-01MS	1 of 2		MS	<2	4.1037	4.1035		Yes	Yes	4.1035	1000	4.1437	4.1437		Yes	Yes	0.0402	40.2	4	HS24051024-01MS
5	HS24051024-01	1 of 2		Sample	<2	4.0753	4.0752		Yes	Yes	4.0752	225	4.0755	4.0756		Yes	Yes	0.0004	1.8	5	HS24051024-01
6	HS24051260-01	1 of 2		Sample	<2	4.1801	4.1797		Yes	Yes	4.1797	1000	4.1801	4.1801		Yes	Yes	0.0004	0.4	6	HS24051260-01
7	HS24051254-01	1 of 2		Sample	<2	4.1025	4.1026		Yes	Yes	4.1026	230	4.1027	4.1028		Yes	Yes	0.0002	0.9	7	HS24051254-01
8	HS24051254-02	1 of 2		Sample	<2	4.0992	4.0993		Yes	Yes	4.0993	240	4.1001	4.1003		Yes	Yes	0.0010	4.2	8	HS24051254-02
9	HS24051254-03	1 of 2		Sample	<2	4.0939	4.0936		Yes	Yes	4.0936	225	4.0944	4.0942		Yes	Yes	0.0006	2.7	9	HS24051254-03
10	HS24051261-01	1 of 2		Sample	<2	4.1386	4.1386		Yes	Yes	4.1386	220	4.1395	4.1395		Yes	Yes	0.0009	4.1	10	HS24051261-01
11	HS24051305-01	1 of 2		Sample	<2	4.1303	4.1307		Yes	Yes	4.1307	210	4.1309	4.1309		Yes	Yes	0.0002	1.0	11	HS24051305-01
12	HS24051328-01	1 of 2		Sample	<2	4.1372	4.1372		Yes	Yes	4.1372	215	4.1373	4.1373		Yes	Yes	0.0001	0.5	12	HS24051328-01
13	HS24051342-01	1 of 2		Sample	<2	4.0893	4.0891		Yes	Yes	4.0891	210	4.0894	4.0895		Yes	Yes	0.0004	1.9	13	HS24051342-01
14	HS24051349-01	1 of 2		Sample	<2	4.1193	4.1193		Yes	Yes	4.1193	855	4.1199	4.1199		Yes	Yes	0.0006	0.7	14	HS24051349-01
15	HS24051349-02	1 of 2		Sample	<2	4.1141	4.1141		Yes	Yes	4.1141	890	4.1147	4.1147		Yes	Yes	0.0006	0.7	15	HS24051349-02
16	HS24051284-01	1 of 2		Sample	<2	4.1288	4.1287		Yes	Yes	4.1287	210	4.3344	4.3340		Yes	Yes	0.2053	977.6	16	HS24051284-01
17	HS24051284-02	1 of 2		Sample	<2	4.0893	4.0893		Yes	Yes	4.0893	205	4.0956	4.0956		Yes	Yes	0.0063	30.7	17	HS24051284-02
18	HS24051276-01	1 of 2		Sample	<2	4.1101	4.1102		Yes	Yes	4.1102	1010	4.1106	4.1106		Yes	Yes	0.0004	0.4	18	HS24051276-01
19	HS24051277-01	1 of 2		Sample	<2	4.1301	4.1301		Yes	Yes	4.1301	1065	4.1304	4.1306		Yes	Yes	0.0005	0.5	19	HS24051277-01
20	HS24051287-01	1 of 2		Sample	<2	4.0909	4.0909		Yes	Yes	4.0909	210	4.0912	4.0912		Yes	Yes	0.0003	1.4	20	HS24051287-01
21	HS24051295-01	1 of 2		Sample	<2	4.1566	4.1566		Yes	Yes	4.1566	210	4.1566	4.1567		Yes	Yes	0.0001	0.5	21	HS24051295-01
22	HS24051295-02	1 of 2		Sample	<2	4.0914	4.0914		Yes	Yes	4.0914	225	4.0915	4.0915		Yes	Yes	0.0001	0.4	22	HS24051295-02
23	HS24051295-03	1 of 2		Sample	<2	4.0996	4.0996		Yes	Yes	4.0996	210	4.0996	4.0995		Yes	Yes	-0.0001	-0.5	23	HS24051295-03
24	HS24051297-01	1 of 2		Sample	<2	4.0944	4.0940		Yes	Yes	4.0940	260	4.0943	4.0942		Yes	Yes	0.0002	0.8	24	HS24051297-01

O&G R2: Calculation corrected in Cell K19, Cells protected.
O&G R3: Calculation corrected in Cell K5, Cells protected.
O&G R4: Added tracability header. Deleted extra worksheets. Added column for pH checks.
O&G R5: Corrected Pentane to Hexane
O&G R6: Inserted 3 weighing columns, weight criteria, and included date/times in/out 12-19-2011
O&G R6.1: Widened rows
O&G R6.2: Fixed Read Only on opening file
O&G R6.3: Hard Coded Oven and Balance, Added 2mg and 1000mg weight requirements, Initial and Final 4-12-2012
O&G R6.4: Fixed cells E9..E12
O&G R6.5: Oven & Balance IDs are not hard coded
O&G R6.6: Dropdown list created for Oven and Balance IDs. Validate using Rev 6.5. (10-23-12)
O&G R6.7: Bottle number/silica gel lot added. Second page for Silica Gel samples
O&G R6.8: Methanol, 1:1 H2SO4, Sodium Sulfate cartridge. LCS & MS sample STD.
O&G R6.9 pH Paper lot added.
O&G R7.0 Added Pipette ID.

HS24051277-MSSEMI-SW8270SIM

ALS WO# HS24051277

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Form 1

Organic Analysis Data Sheet

EPA 3510

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	HS24051277	

EPA 3510

LH18/24-SP140_052124	Collected	Received	Matrix	Basis
HS24051277-01	05/21/24 13:00	05/22/24 10:15	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile	PrepBatch
1,4-Dioxane	ug/L	0.35	a	0.010	0.030	0.030	1	05/31/24 15:06	SV-6_468217	06.D	212606

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Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Workorder: HS24051277

Semi-Volatiles by Semivolatiles SIM

RUNID: SV-6-468217

LH18/24-SP140_052124

Matrix	Analysis Date	Conc Units	Dilution
Water	05/31/24 15:06	%REC	1

Lab Sample ID: HS24051277-01
Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	06.D	0.07	0.08	87.9		40-140
4-Terphenyl-d14	06.D	0.075	0.08	93.9		40-140
Nitrobenzene-d5	06.D	0.061	0.08	76.4		40-140

LCS-212606

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	05/31/24 15:41	%REC	1

Lab Sample ID: LCS-212606
Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	08.D	0.06549	0.08	81.9		40-140
4-Terphenyl-d14	08.D	0.0699	0.08	87.4		40-140
Nitrobenzene-d5	08.D	0.0742	0.08	92.7		40-140

LCSD-212606

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	05/31/24 15:58	%REC	1

Lab Sample ID: LCSD-212606
Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	09.D	0.06576	0.08	82.2		40-140
4-Terphenyl-d14	09.D	0.06773	0.08	84.7		40-140
Nitrobenzene-d5	09.D	0.06787	0.08	84.8		40-140

MBLK-212606

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	05/31/24 15:23	%REC	1

Lab Sample ID: MBLK-212606
Instrument ID: SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	07.D	0.06088	0.08	76.1		40-140
4-Terphenyl-d14	07.D	0.07382	0.08	92.3		40-140
Nitrobenzene-d5	07.D	0.06095	0.08	76.2		40-140

Form 2 - System Monitoring Compound Recovery

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Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/22/2024

ALS Environmental–Houston Laboratory
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Form 3B - Laboratory Control Sample Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	HS24051277	

EPA 3510

SAMPLENUM
LCS-212606

SV-6_468217				LCS-212606		LCSD-212606					
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	05/31/24	Run Date	05/31/24				
Prep Date	05/28/24	Analysis Batch	212606	Run Time	15:41	Run Time	15:58				
Prep Method	SW3510	Prep Batch	212606	Prep Amt	1000 mL	Prep Amt	1000 mL				

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane	40-140	0.08	0.0702	88		0.07174	90		20	2.18	

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Form 4

Method Blank Summary

EPA 3510

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/22/2024

ALS Environmental–Houston Laboratory
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Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	HS24051277	

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-212606	05/28/24	212606	Aqueous	05/31/24 15:23	212606	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LH18/24-SP140_052124	HS24051277-01	SAMP	05/31/24 15:06	212606	SV6	06.D
LCS-212606	LCS-212606	LCS	05/31/24 15:41	212606	SV6	08.D
LCSD-212606	LCSD-212606	LCSD	05/31/24 15:58	212606	SV6	09.D

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Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/22/2024

ALS Environmental–Houston Laboratory
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FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA80227

Lab File ID: 01 DFTPP Injection Date: 04/18/24

Instrument ID: SV6 DFTPP Injection Time: 1039

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.5 (1.8)1
69	Mass 69 relative abundance	28.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.4
365	1.0 - 100.0% of mass 198	4.0
441	Present, but less than mass 443	20.5
442	50.0 - 150.0% of mass 198	139.9
443	15.0 - 24.0% of mass 442	27.6 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SLSTD-2.5	SLSTD-2.5	02	04/18/24	1051
02	14DX-0.08	14DX-0.08	03A	04/18/24	1224
03		14DX-0.01	04	04/18/24	1249
04		14DX-0.03	05	04/18/24	1307
05		14DX-0.05	06	04/18/24	1325
06		14DX-0.10	07	04/18/24	1342
07		14DX-0.15	08	04/18/24	1400
08		14DX-0.20	09	04/18/24	1418
09		14DX-0.50	10	04/18/24	1435
10	14DX ICV-0.0	14DX ICV-0.08	11	04/18/24	1453
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS24051277**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-468217

Tune File 01.D 05/31/24 5/31/2024

m / e	Ion Abundance Criterion	%RA
51	10.0 - 80.0% of mass 198	31.6 (31.6)
68	Less than 2.0% of mass 69	0.6 (1.75) 1
69	Mass 69 RA	36.1 (36.1)
70	Less than 2.0% of mass 69	0.2 (0.517) 1
127	10.0 - 80.0% of mass 198	44.3 (44.3)
197	Less than 2.0% of mass 198	0 (0)
198	Base peak, 100% RA	100 (100)
199	5.0 - 9.0% of mass 198	7.5 (7.52)
275	10.0 - 60.0% of mass 198	25 (25)
365	Greater than 1.0% of mass 198	3.1 (3.06)
441	Present, but < 24.0% of mass 442	12.2 (69.2)
442	greater than 50.0% of mass 198	86.9 (86.9)
443	15.0 - 24.0% of mass 442	17.6 (20.3) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	14DX-0.08	CCV	5/31/2024	03A	14DX-0.08
2	HS24051277-	SAMP	5/31/2024	06	LH18/24-SP140_052124
3	MBLK-212606	MBLK	5/31/2024	07	MBLK-212606
4	LCS-212606	LCS	5/31/2024	08	LCS-212606
5	LCSD-212606	LCSD	5/31/2024	09	LCSD-212606
6	14DX-0.08	CCV	5/31/2024	11	14DX-0.08

Report Date : 06-Jun-2024 14:30 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Compound	0.01000 Level 1 / 0.20000 Level 7	0.03000 Level 2 / 0.50000 Level 8	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	RRF	% RSD
1 1,4-Dioxane	0.26786 / 0.21892	0.20193 / 0.19957	0.21510	0.19340	0.20406	0.21271	0.21419	10.884
$ 9 2-Fluorophenol	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####
$ 13 Phenol-d6	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####

$ 33 Nitrobenzene-d5	0.25417	0.27709	0.33446	0.25539	0.31770	0.31230		
	0.32399	0.32657					0.30021	10.938
$ 69 2-Fluorobiphenyl	1.58567	1.48291	1.52552	1.25243	1.62605	1.59900		
	1.54935	1.60832					1.52866	7.930
$ 105 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
$ 158 4-Terphenyl-d14	2.22448	1.99483	2.00359	1.46918	2.10278	2.04892		
	2.19122	2.26244					2.03718	12.300

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Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

RunID 11.D

Semi-Volatiles by Semivolatiles SIM

Sample Matrix	LIQUID	**Fraction**	SV
Lab Smp Id	PAHSIM ICV-0.08	**Client Smp ID**	PAHSIM ICV-0.08
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	11.D	**Inj Date**	12-DEC-2023 1619

Compound	CONC Added	CONC Recovered	% Recovered	Limits	Q
Naphthalene	0.080	0.081	101	85-115	
2-Methylnaphthalene	0.080	0.080	99.6	85-115	
1-Methylnaphthalene	0.080	0.079	98.9	85-115	
Acenaphthylene	0.080	0.077	96.6	85-115	
Acenaphthene	0.080	0.078	98.1	85-115	
Dibenzofuran	0.080	0.078	97.4	85-115	
Fluorene	0.080	0.077	96.3	85-115	
Phenanthrene	0.080	0.078	97.6	85-115	
Anthracene	0.080	0.078	97.4	85-115	
Fluoranthene	0.080	0.076	95.2	85-115	
Pyrene	0.080	0.081	101	85-115	
Benzo(a)Anthracene	0.080	0.080	101	85-115	
Chrysene	0.080	0.082	102	85-115	
Benzo(b)fluoranthene	0.080	0.080	99.8	85-115	
Benzo(k)fluoranthene	0.080	0.078	97.0	85-115	
Benzo(a)pyrene	0.080	0.076	94.8	85-115	
Indeno(1,2,3-cd)pyrene	0.080	0.071	88.6	85-115	
Dibenzo(a,h)anthracene	0.080	0.071	88.7	85-115	
Benzo(g,h,i)perylene	0.080	0.071	89.0	85-115	
Nitrobenzene-d5	0.080	0.078	97.7	40-140	
2-Fluorobiphenyl	0.080	0.077	96.8	40-140	
4-Terphenyl-d14	0.080	0.072	90.3	40-140	

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Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/22/2024

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Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

RunID 03A.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 03A.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 31-MAY-2024 1408
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.295	0.010	-1.606	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.46	0.010	-4.650	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.73	0.010	-14.875	20.0	Averaged	
1,4-Dioxane	0.214	0.219	0.010	2.18	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client	Bhate Environmental Associates, Inc.	**Workorder**	
Project	Groundwater Treatment Plant Quarterly Influent Samples	**HS24051277**	

RunID **11.D**

Semi-Volatiles by Semivolatiles SIM

Instrument ID	SV6.i	**Injection Date**	31-MAY-2024 1638
Lab File ID	11.D	**ICAL Date(s)**	10-MAR-2022, 18-APR-2024
Analysis Type	WATER	**ICAL Times**	10:25, 14:35
Lab Sample ID	14DX-0.08	**Quant Type**	ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.256	0.010	-14.775	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.35	0.010	-11.604	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.70	0.010	-16.418	20.0	Averaged	
1,4-Dioxane	0.214	0.202	0.010	-5.815	20.0	Averaged	

Prep Batch Report

Batch ID:	212606	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	28 May 2024 06:30 AM	**Original Factor:**	0.001
End Date:	28 May 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24040667-05	A	Water	7	1000	1	0.001	1	ph adj 1/13 cl nodcs Out of Hold
HS24051276-01	E	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051277-01	E	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051428-01	I	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051428-02	I	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051428-03	I	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051434-04	A	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051434-05	A	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051434-06	A	Water	7	1000	1	0.001	1	ph adj 1/13 cl no
HS24051669-01	A	Water	7	560	1	0.001786	1.786	ph adj 1/13 cl no
HS24051669-02	A	Water	7	560	1	0.001786	1.786	ph adj 1/13 cl no
HS24051669-03	A	Water	7	560	1	0.001786	1.786	ph adj 1/13 cl no
LCS-212606	A		5	1000	1	0.001	1	ph adj 1/13 cl no
LCSD-212606	A		5	1000	1	0.001	1	ph adj 1/13 cl no
MBLK-212606	A		5	1000	1	0.001	1	ph adj 1/13 cl no

Prep Batch Report

Batch ID:	212606	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	28 May 2024 06:30 AM	**Original Factor:**	0.001
End Date:	28 May 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Todi Lala	**Prep Unit:**	mL

Stage	Description	Value
3510/3511	Chlorine Strips ID:	3001070211-06
3510_B	pH Paper:	300107092-11
3510_B	Methylene Chloride ID:	300107098-18
3510_B	50% NaoH ID:	300107078-21
3510_B	NaoH Volume (mL):	8
3510_B	50:50 Sulfuric Acid ID:	300107095-06
3510_B	Sulfuric Acid Volume (mL):	8ml
3510_B	Syringe ID:	3510-bsim
3510_B	LCS/MS Spike ID:	3231538-11
3510_B	LCS/MS Volume (mL):	1ml
3510_B	LCS/MS Spike #2 ID (If needed):	3231510-05
3510_B	LCS/MS Spike #2 Volume (mL):	1
3510_B	LCS/MS Spike #3 ID (If needed):	na
3510_B	LCS/MS Spike #3 Volume (mL):	na
3510_B	Sodium Sulfate ID:	3142131-21
3510_B	Glass Wool ID:	300107067-15
3510_B	TurboVap Unit(s):	j (1-6) n (7-12)d(13-15)l ()
3510_B	TurboVap Temp (C):	39-40
3510_B	TurboVap Pressure (PSI):	9-11
3510_B	Time in TurboVap (Hrs):	1.5 hr
3510_B	Vial Lot:	300107091-08
3510_B	CleanUp Performed:	na
3510_B	Surrogate ID:	320077506
3510_B	Surrogate Volume (mL):	1ml

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Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	**HS24051277**	

Semi-Volatiles by Semivolatiles SIM

RUNID
SV-6-454425

Run ID SV-6_454425 **Start Date** 12/12/23 **EndDate** 12/12/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
13:20	PAHSIM-0.08	ICAL4	PAHSIM-0.08	03.D	12/12/23	1
13:58	PAHSIM-0.010	ICAL1	PAHSIM-0.010	04.D	12/12/23	1
14:18	PAHSIM-0.025	ICAL2	PAHSIM-0.025	05.D	12/12/23	1
14:39	PAHSIM-0.050	ICAL3	PAHSIM-0.050	06.D	12/12/23	1
14:59	PAHSIM-0.10	ICAL5	PAHSIM-0.10	07.D	12/12/23	1
15:19	PAHSIM-0.15	ICAL6	PAHSIM-0.15	08.D	12/12/23	1
15:39	PAHSIM-0.20	ICAL7	PAHSIM-0.20	09.D	12/12/23	1
15:59	PAHSIM-0.50	ICAL8	PAHSIM-0.50	10.D	12/12/23	1
16:19	PAHSIM ICV-0.08	ICV	PAHSIM ICV-0.08	11.D	12/12/23	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS24051277**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-468217

Run ID SV-6_468217 **Start Date** 05/31/24 **EndDate** 06/07/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
14:08	14DX-0.08	CCV	14DX-0.08	03A.D	05/31/24	1
15:06	HS24051277-01	SAMP	LH18/24-	06.D	05/31/24	1
15:23	MBLK-212606	MBLK	MBLK-212606	07.D	05/31/24	1
15:41	LCS-212606	LCS	LCS-212606	08.D	05/31/24	1
15:58	LCSD-212606	LCSD	LCSD-212606	09.D	05/31/24	1
16:16	HS24051276-01	SAMP	ZZZZZZZZZZ	10.D	05/31/24	10
16:38	14DX-0.08	CCV	14DX-0.08	11.D	05/31/24	1
18:23	HS24040667-05	SAMP	ZZZZZZZZZZ	17.D	05/31/24	1
18:40	HS24051428-01	SAMP	ZZZZZZZZZZ	18.D	05/31/24	1
18:58	HS24051428-02	SAMP	ZZZZZZZZZZ	19.D	05/31/24	1
19:15	HS24051428-03	SAMP	ZZZZZZZZZZ	20.D	05/31/24	1
19:33	HS24051434-04	SAMP	ZZZZZZZZZZ	21.D	05/31/24	1
19:50	HS24051434-05	SAMP	ZZZZZZZZZZ	22.D	05/31/24	1
20:22	HS24051669-01	SAMP	ZZZZZZZZZZ	22.D	06/07/24	10
20:08	HS24051434-06	SAMP	ZZZZZZZZZZ	23.D	05/31/24	1
20:43	HS24051669-02	SAMP	ZZZZZZZZZZ	25.D	05/31/24	1
21:00	HS24051669-03	SAMP	ZZZZZZZZZZ	26.D	05/31/24	1

SV06 -Logbook

Batch: 60250 **Analyst:** Marco Gutierrez

Date: 05-31-2024 **Reviewer:**

Method: R8270D SIM 14DX **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	05-31-2024 12:21 pm	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	05-31-2024 01:02 pm	1.00	1000.00 mL	1000.00 mL	02A.D	Liquid	Y	NA
3	14DX-0.08	CCV	05-31-2024 02:08 pm	1.00	1000.00 mL	1000.00 mL	03A.D	Liquid	Y	NA
4	SIM CCB	SAMP	05-31-2024 02:31 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	HS24051276-01	SAMP	05-31-2024 02:48 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	HS24051277-01	SAMP	05-31-2024 03:06 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	MBLK-212606	MBLK	05-31-2024 03:23 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	LCS-212606	LCS	05-31-2024 03:41 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	LCSD-212606	LCSD	05-31-2024 03:58 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	HS24051276-01	SAMP	05-31-2024 04:16 pm	10.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	14DX-0.08	CCV	05-31-2024 04:38 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	SIM CCB	SAMP	05-31-2024 04:56 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	MBLK-211977	SAMP	05-31-2024 05:13 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCS-211977	SAMP	05-31-2024 05:31 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCSD-211977	SAMP	05-31-2024 05:48 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24050916-01	SAMP	05-31-2024 06:06 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	HS24040667-05	SAMP	05-31-2024 06:23 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS24051428-01	SAMP	05-31-2024 06:40 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24051428-02	SAMP	05-31-2024 06:58 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24051428-03	SAMP	05-31-2024 07:15 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24051434-04	SAMP	05-31-2024 07:33 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24051434-05	SAMP	05-31-2024 07:50 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24051434-06	SAMP	05-31-2024 08:08 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24051669-01	SAMP	05-31-2024 08:25 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24051669-02	SAMP	05-31-2024 08:43 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS24051669-03	SAMP	05-31-2024 09:00 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA

SV06 -Logbook

Batch: 57986 **Analyst:** Marco Gutierrez

Date: 12-12-2023 **Reviewer:**

Method: R8270D SIM PAH ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	12-12-2023 11:21 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	12-12-2023 11:33 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	PAHSIM-0.08	ICAL4	12-12-2023 01:20 pm	1.00	1000.00 mL	1000.00 mL	03.D	Liquid	Y	NA
4	PAHSIM-0.01	ICAL1	12-12-2023 01:58 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	PAHSIM-0.03	ICAL2	12-12-2023 02:18 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	PAHSIM-0.05	ICAL3	12-12-2023 02:39 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	PAHSIM-0.10	ICAL5	12-12-2023 02:59 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	PAHSIM-0.15	ICAL6	12-12-2023 03:19 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	PAHSIM-0.20	ICAL7	12-12-2023 03:39 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	PAHSIM-0.50	ICAL8	12-12-2023 03:59 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	PAHSIM ICV-0.08	ICV	12-12-2023 04:19 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	MBLK-203997	MBLK	12-12-2023 04:40 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	LCS-203997	LCS	12-12-2023 05:00 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCSD-203997	LCSD	12-12-2023 05:20 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	MBLK-204560	MBLK	12-12-2023 05:40 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	LCS-204560	LCS	12-12-2023 06:00 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	LCSD-204560	LCSD	12-12-2023 06:21 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	HS23111571-03	SAMP	12-12-2023 06:41 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS23111573-03	SAMP	12-12-2023 07:01 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS23120311-02	SAMP	12-12-2023 07:21 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS23120401-02	SAMP	12-12-2023 07:41 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS23120401-03	SAMP	12-12-2023 08:01 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA

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RawData

<textMethods>

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\01.D Page 1
Report Date: 12-Dec-2023 13:07

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 12-DEC-2023 11:21
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
5.170	5.571	-0.401	198	128535			0.00- 100.00	77.19
5.170	6.357	-1.187	51	37227			10.00- 80.00	28.96
5.170	6.357	-1.187	68	695			0.00- 2.00	1.72
5.170	6.357	-1.187	69	40344			0.00- 0.00	31.39
5.170	6.357	-1.187	70	154			0.00- 2.00	0.38
5.170	6.357	-1.187	127	51808			10.00- 80.00	40.31
5.170	6.357	-1.187	197	348			0.00- 2.00	0.27
5.170	6.357	-1.187	199	8926			5.00- 9.00	6.94
5.170	6.357	-1.187	275	38772			10.00- 60.00	30.16
5.170	6.357	-1.187	365	5421			1.00- 100.00	4.22
5.170	6.357	-1.187	441	24928			0.01- 99.99	75.16
5.170	6.357	-1.187	442	166528			50.00- 150.00	129.56
5.170	6.357	-1.187	443	33168			15.00- 24.00	19.92

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	28.96
68	Less than 2.00% of mass 69	0.54 (1.72)
69	Mass 69 relative abundance	31.39
70	Less than 2.00% of mass 69	0.12 (0.38)
127	10.00 - 80.00% of mass 198	40.31
197	Less than 2.00% of mass 198	0.27
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 60.00% of mass 198	30.16
365	1.00 - 100.00% of mass 198	4.22
441	Present, but less than mass 443	19.39
442	50.00 - 150.00% of mass 198	129.56
443	15.00 - 24.00% of mass 442	25.80 (19.92)

Data File: 01.D
Spectrum: Avg. Scans 482-484 (5.17), Background Scan 478 (SUB)
Location of Maximum: 442.00
Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	120	131.00	305	202.00	53	289.00	125
38.00	426	132.00	120	203.00	985	290.00	64
39.00	2383	134.00	625	204.00	4915	292.00	140
40.00	246	135.00	1577	205.00	8319	293.00	720
50.00	9499	136.00	610	206.00	33976	294.00	158
51.00	37224	137.00	858	207.00	4480	295.00	125
52.00	1897	138.00	157	208.00	1093	296.00	10449
55.00	62	140.00	254	209.00	412	297.00	1409
56.00	1247	141.00	2570	210.00	363	298.00	63
57.00	2784	142.00	909	211.00	1498	301.00	82
58.00	74	143.00	574	212.00	85	302.00	196
61.00	537	144.00	126	215.00	321	303.00	1405
62.00	646	145.00	95	216.00	791	304.00	329
63.00	1641	146.00	478	217.00	9198	308.00	133
64.00	214	147.00	1317	218.00	1108	310.00	217
65.00	840	148.00	3035	219.00	57	313.00	53
68.00	695	149.00	599	221.00	6585	314.00	547
69.00	40344	150.00	57	222.00	1507	315.00	1229
70.00	154	151.00	417	223.00	2225	316.00	610
73.00	313	152.00	159	224.00	19944	317.00	134
74.00	4016	153.00	830	225.00	5040	321.00	402
75.00	6436	154.00	618	226.00	543	322.00	204
76.00	2072	155.00	1506	227.00	8255	323.00	3909
77.00	42464	156.00	2234	228.00	1109	324.00	706
78.00	2822	157.00	458	229.00	1791	327.00	708
79.00	2978	158.00	496	230.00	230	328.00	314
80.00	2258	159.00	473	231.00	734	332.00	297
81.00	3199	160.00	828	232.00	50	333.00	322
82.00	812	161.00	1322	233.00	72	334.00	2484
83.00	675	162.00	355	234.00	604	335.00	620
85.00	598	163.00	70	235.00	542	341.00	526
86.00	801	164.00	101	236.00	358	342.00	55
87.00	397	165.00	967	237.00	582	346.00	737
88.00	136	166.00	946	239.00	350	352.00	1248
91.00	773	167.00	5186	240.00	231	353.00	849
92.00	861	168.00	2322	241.00	507	354.00	1060
93.00	5248	169.00	471	242.00	1123	355.00	192
94.00	361	170.00	133	243.00	1132	359.00	56
95.00	54	171.00	223	244.00	15164	365.00	5421
96.00	228	172.00	470	245.00	2256	366.00	764
97.00	52	173.00	703	246.00	3307	370.00	119
98.00	3962	174.00	1236	247.00	625	371.00	325
99.00	2961	175.00	2246	248.00	133	372.00	2055
100.00	271	176.00	575	249.00	567	373.00	495
101.00	1947	177.00	1080	250.00	55	383.00	527

103.00 636	178.00 385	251.00 136	384.00 143
104.00 1064	179.00 4595	252.00 178	390.00 239
105.00 1247	180.00 3087	253.00 461	391.00 140
106.00 401	181.00 1432	255.00 85760	392.00 131
107.00 14345	182.00 270	256.00 12142	401.00 63
108.00 2330	183.00 60	257.00 889	402.00 854
109.00 516	184.00 317	258.00 4906	403.00 1317
110.00 25816	185.00 2202	259.00 728	404.00 313
111.00 4036	186.00 17000	261.00 69	421.00 1244
112.00 455	187.00 5193	264.00 56	422.00 1147
113.00 111	188.00 489	265.00 1978	423.00 8217
116.00 912	189.00 1170	266.00 301	424.00 1901
117.00 11193	190.00 241	270.00 107	425.00 139
118.00 845	191.00 469	271.00 147	436.00 113
120.00 146	192.00 1363	272.00 196	437.00 291
122.00 898	193.00 1695	273.00 2634	438.00 302
123.00 1495	194.00 304	274.00 6853	439.00 629
124.00 742	195.00 203	275.00 38768	441.00 24928
125.00 670	196.00 3622	276.00 5170	442.00 166528
126.00 113	197.00 348	277.00 2991	443.00 33168
127.00 51808	198.00 128528	278.00 541	444.00 3168
128.00 3942	199.00 8926	283.00 341	445.00 140
129.00 20680	200.00 723	284.00 266	
130.00 1716	201.00 652	285.00 538	

Data File: \\NAHSTWS005\Target\chem\sv6.i\231212.b\01.d Page 1

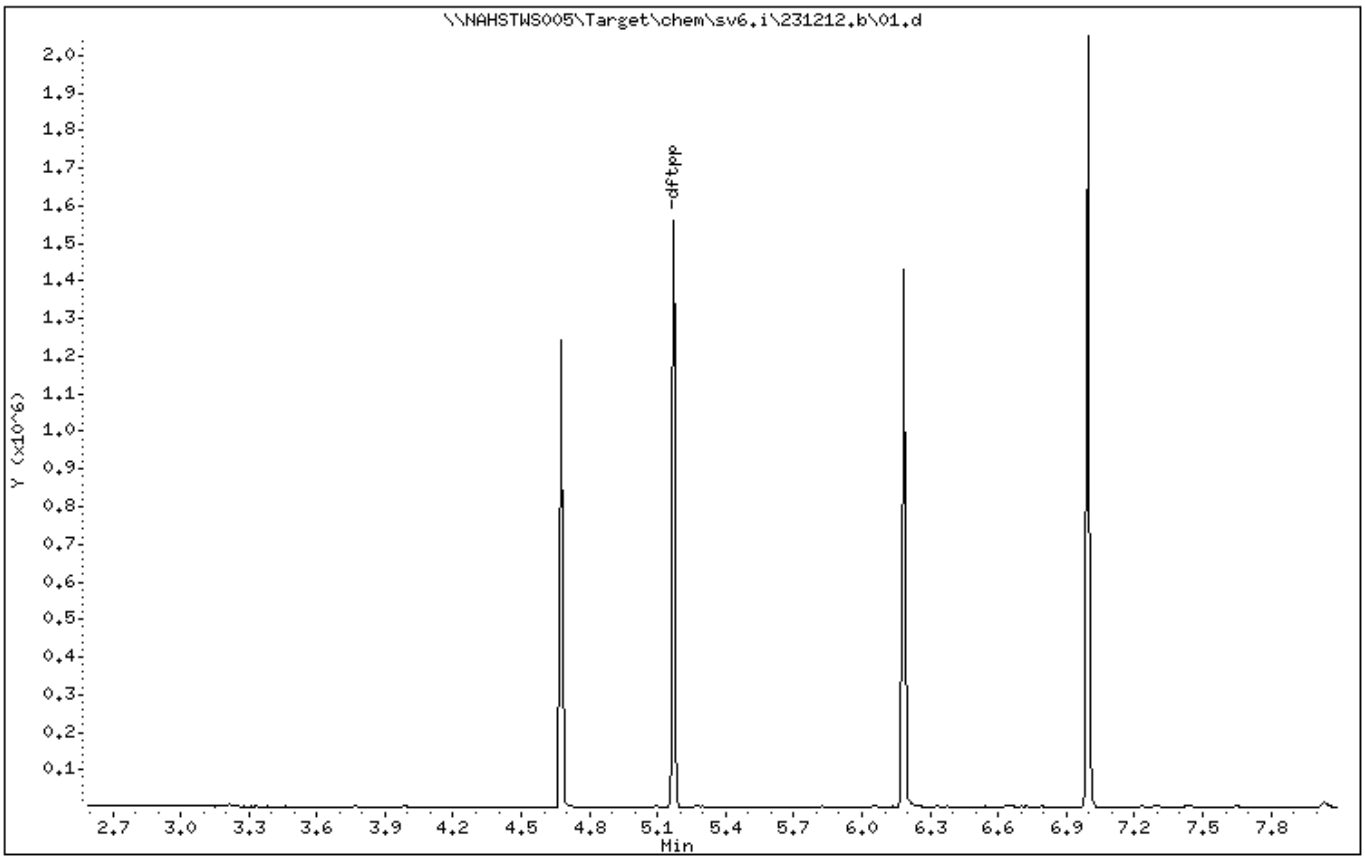
Date : 12-DEC-2023 11:21

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File : \\nahstws005\target\chem\sv6.i\231212.b\01.d
Inj Date : 12-DEC-2023 11:21
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D Page 1
Report Date: 18-Dec-2023 10:17

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Lab Smp Id: PAHSIM-0.08 Client Smp ID: PAHSIM-0.08
Inj Date : 12-DEC-2023 13:20
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:59 Cal File: 10.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.386	4.386	(1.000)	28457	0.10000	
$ 33 Nitrobenzene-d5	82	3.746	3.746	(0.854)	6262	0.08000	0.07980(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	17141	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	21658	0.08000	0.07934
* 126 Phenanthrene-d10	188	7.499	7.499	(1.000)	35822	0.10000	(M)
* 182 Chrysene-d12	240	10.239	10.239	(1.000)	37227	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.078	9.078	(0.887)	29385	0.08000	0.07773
* 198 Perylene-d12	264	12.216	12.216	(1.000)	37882	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.005)	24191	0.08000	0.07748
61 2-Methylnaphthalene	142	5.053	5.053	(1.152)	16443	0.08000	0.07875
62 1-Methylnaphthalene	142	5.145	5.145	(1.173)	15196	0.08000	0.07800
83 Acenaphthylene	152	5.910	5.910	(0.976)	25076	0.08000	0.08001
88 Acenaphthene	154	6.080	6.080	(1.004)	15400	0.08000	0.07793
98 Fluorene	166	6.583	6.583	(1.087)	19249	0.08000	0.07923
92 Dibenzofuran	168	6.711	6.711	(1.108)	10259	0.08000	0.08007(M)
128 Phenanthrene	178	7.518	7.518	(1.002)	30497	0.08000	0.07778
130 Anthracene	178	7.568	7.568	(1.009)	29677	0.08000	0.07595
149 Fluoranthene	202	8.676	8.676	(1.157)	37958	0.08000	0.08139
155 Pyrene	202	8.895	8.895	(0.869)	40356	0.08000	0.07456

181 Benzo(a)Anthracene	228	10.224	10.224 (0.999)	38677	0.08000	0.07662
183 Chrysene	228	10.269	10.269 (1.003)	40103	0.08000	0.07127(M)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
192 Benzo(b)fluoranthene	252	11.672	11.672	(0.956)	37337	0.08000	0.07940
195 Benzo(k)fluoranthene	252	11.710	11.710	(0.959)	42990	0.08000	0.07555(M)
197 Benzo(a)pyrene	252	12.134	12.134	(0.993)	34743	0.08000	0.07623(MH)
209 Indeno(1,2,3-cd)pyrene	276	13.735	13.735	(1.124)	41965	0.08000	0.07694(M)
210 Dibenzo(a,h)anthracene	278	13.787	13.787	(1.129)	34155	0.08000	0.07540(M)
212 Benzo(g,h,i)perylene	276	14.100	14.100	(1.154)	35700	0.08000	0.07329(M)

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D

Date : 12-DEC-2023 13:20

Client ID: PAHSIM-0.08

Instrument: SV6.i

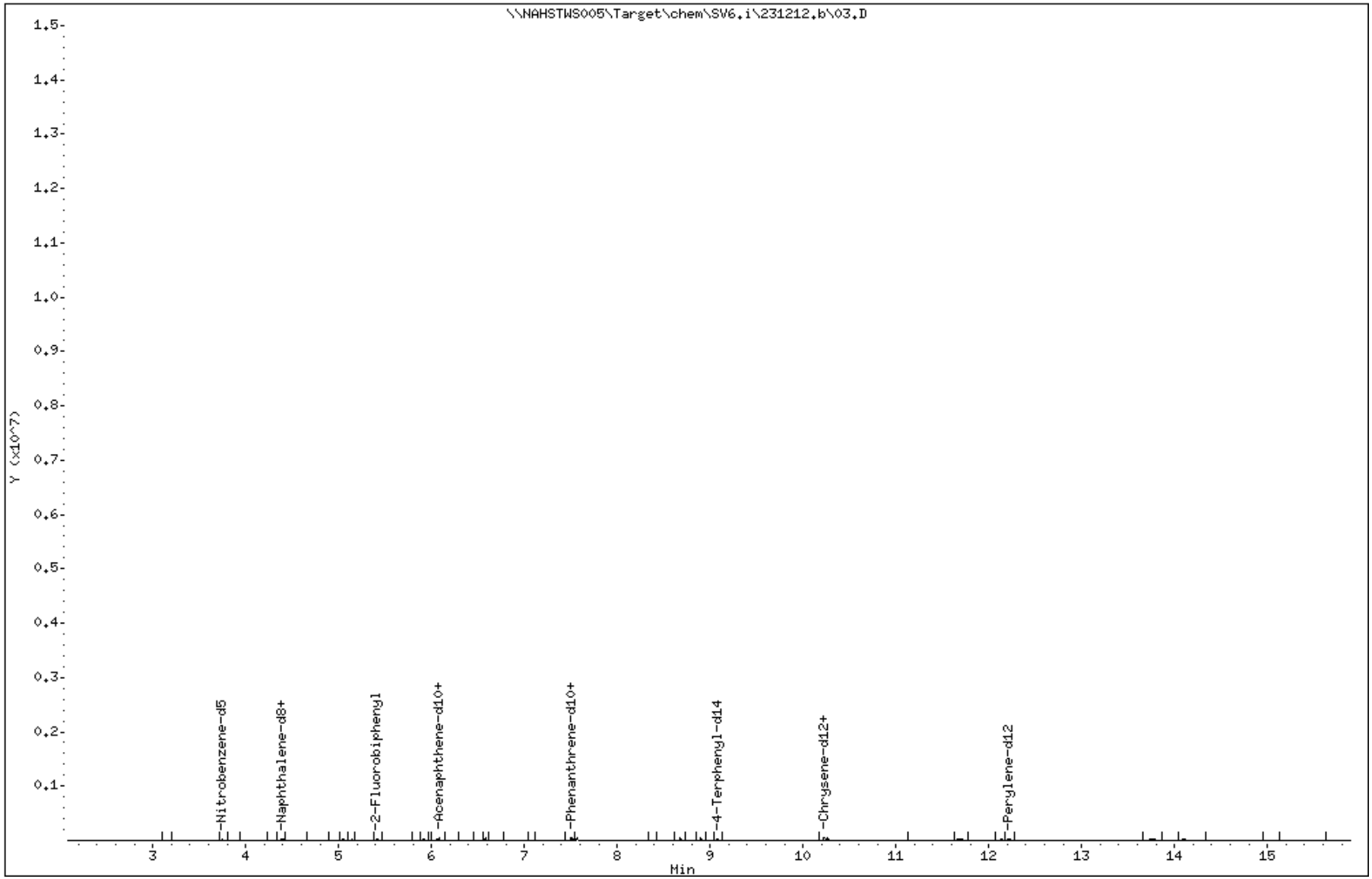
Sample Info: PAHSIM-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

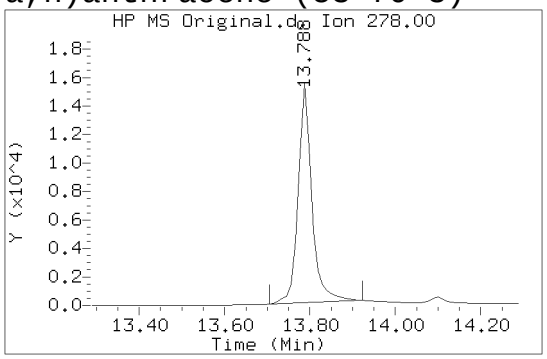


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

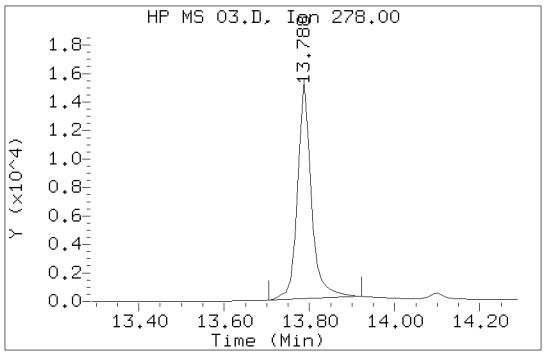
Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

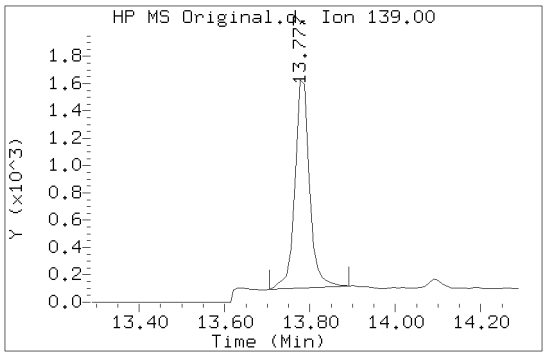
BEFORE
MASS
278
AREA
34155
HEIGHT
15388
18-Dec-2023
10:16
linh
pham



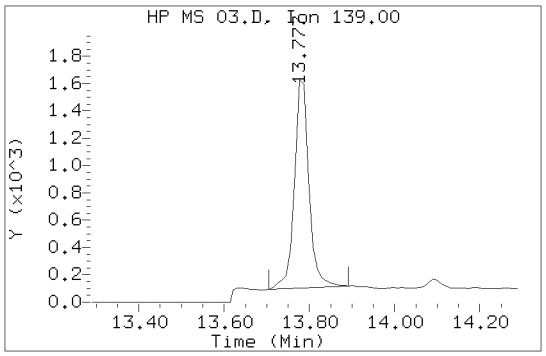
AFTER
MASS
278
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34155
HEIGHT
15388
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10:16
linh
pham



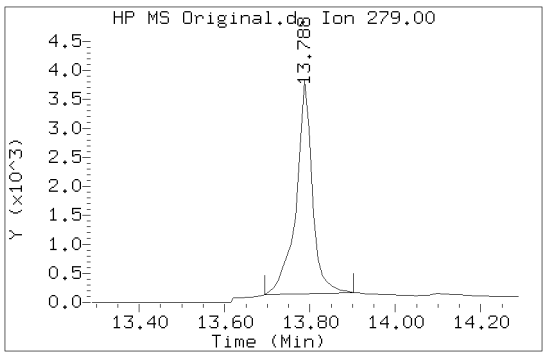
BEFORE
MASS
139
AREA
3617
HEIGHT
1525
18-Dec-2023
10:16
linh
pham



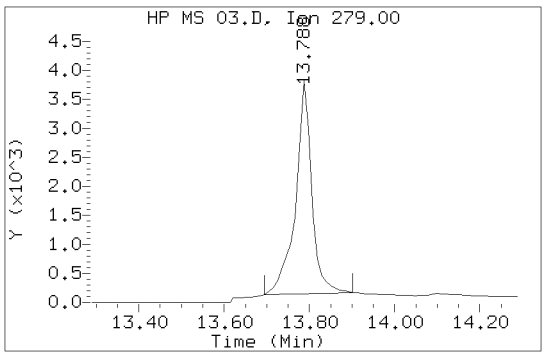
AFTER
MASS
139
AREA
3617
HEIGHT
1525
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
279
AREA
9681
HEIGHT
3674
18-Dec-2023
10:16
linh
pham



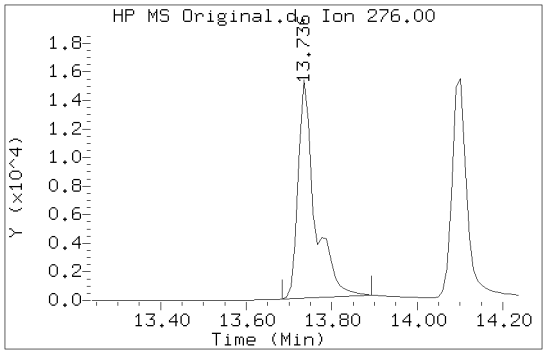
AFTER
MASS
279
AREA
9681
HEIGHT
3674
18-Dec-2023
10:16
linh
pham



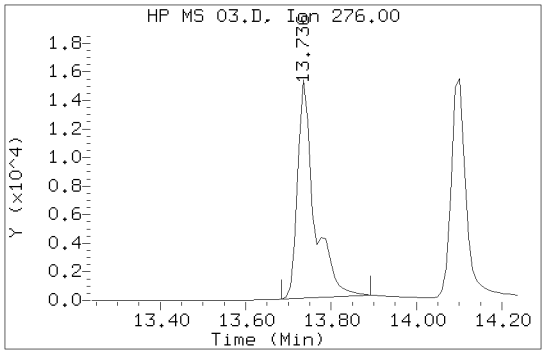
Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE
MASS
276
AREA
41965
HEIGHT
15275
18-Dec-2023
10:16
linh
pham



AFTER
MASS
276
AREA
41965
HEIGHT
15275
18-Dec-2023
10:16
linh
pham



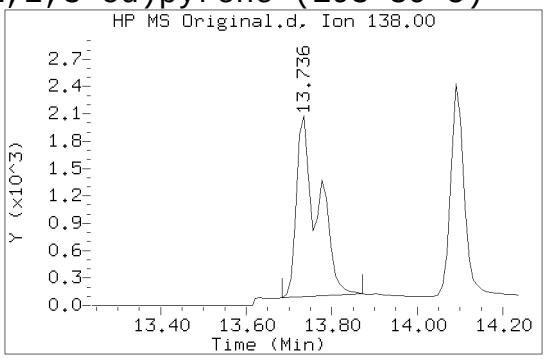
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

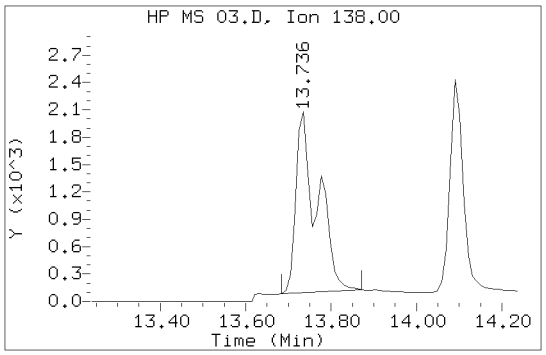
BEFORE

MASS
138
AREA
6883
HEIGHT
1984
18-Dec-2023
10:16
linh
pham



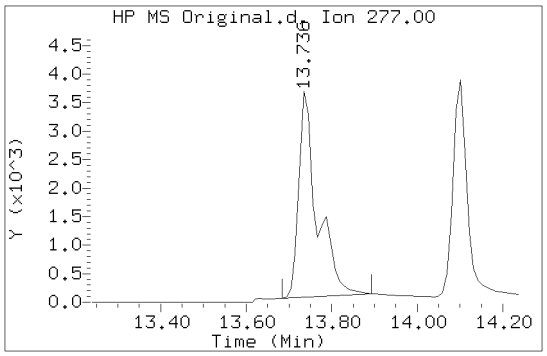
AFTER

MASS
138
AREA
6883
HEIGHT
1984
18-Dec-2023
10:16
linh
pham



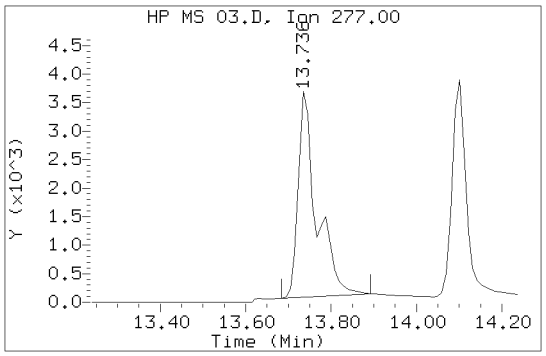
BEFORE

MASS
277
AREA
10813
HEIGHT
3606
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
10813
HEIGHT
3606
18-Dec-2023
10:16
linh
pham

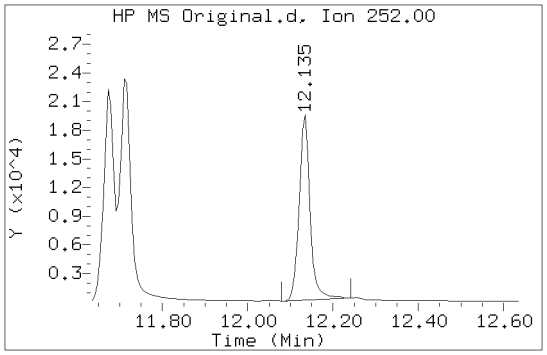


Benzo(a)pyrene (50-32-8)

Reason Code:

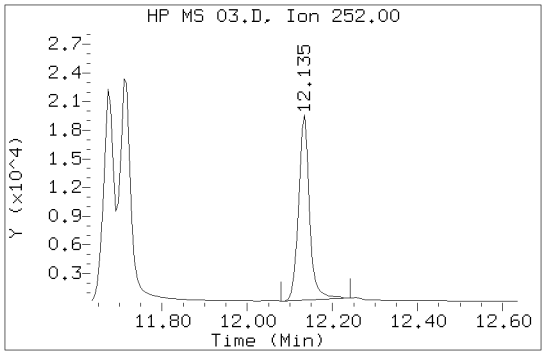
BEFORE

MASS
252
AREA
34743
HEIGHT
19382
18-Dec-2023
10:16
linh
pham



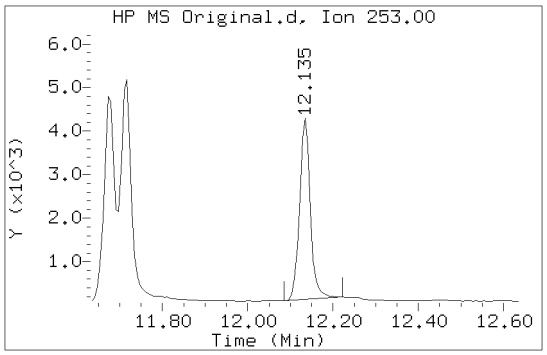
AFTER

MASS
252
AREA
34743
HEIGHT
19382
18-Dec-2023
10:16
linh
pham



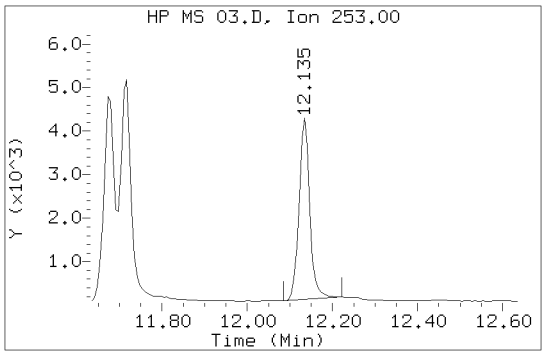
BEFORE

MASS
253
AREA
7393
HEIGHT
4171
18-Dec-2023
10:16
linh
pham



AFTER

MASS
253
AREA
7393
HEIGHT
4171
18-Dec-2023
10:16
linh
pham



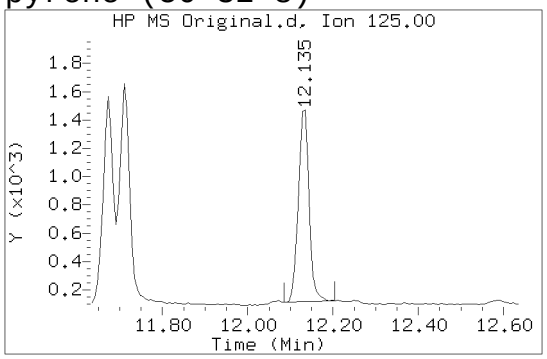
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Benzo(a)pyrene (50-32-8)

Reason Code:

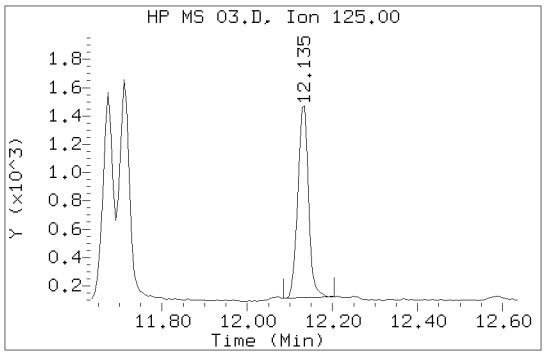
BEFORE

MASS
125
AREA
2420
HEIGHT
1355
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2420
HEIGHT
1355
18-Dec-2023
10:16
linh
pham

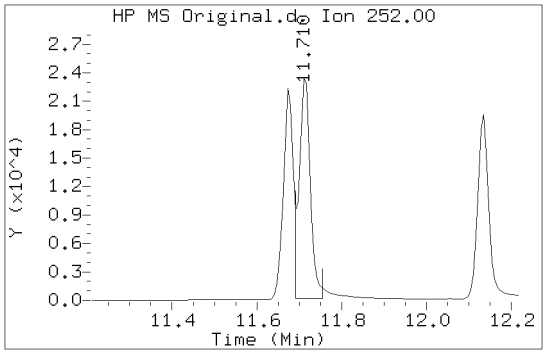


Benzo(k)fluoranthene (207-08-9)

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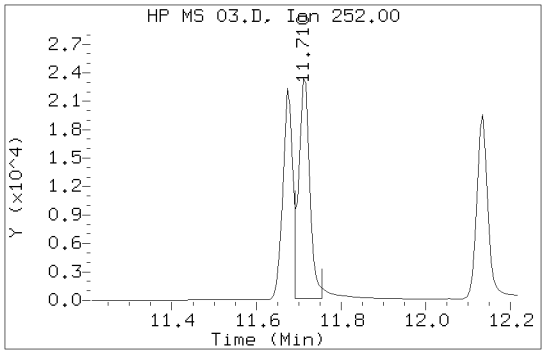
BEFORE

MASS
252
AREA
42990
HEIGHT
23172
18-Dec-2023
10:16
linh
pham



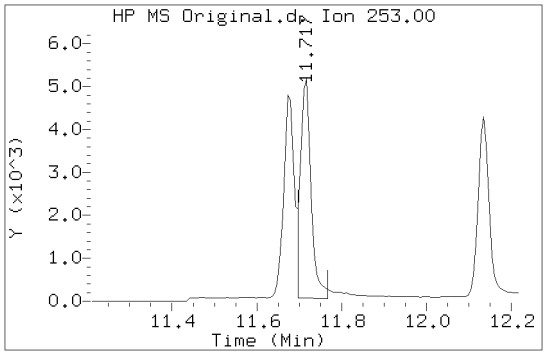
AFTER

MASS
252
AREA
42990
HEIGHT
23172
18-Dec-2023
10:16
linh
pham



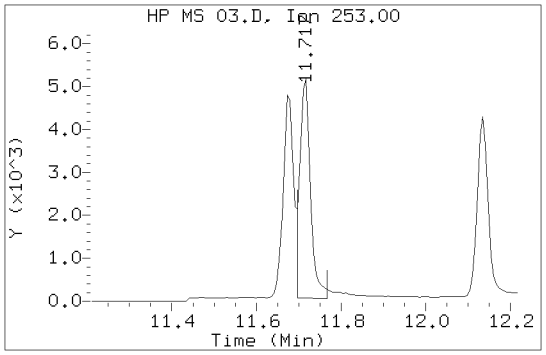
BEFORE

MASS
253
AREA
8948
HEIGHT
5105
18-Dec-2023
10:16
linh
pham



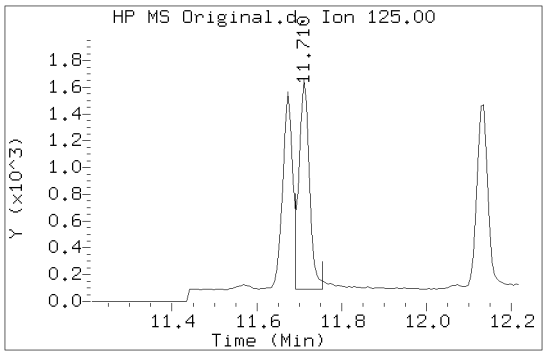
AFTER

MASS
253
AREA
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HEIGHT
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10:16
linh
pham



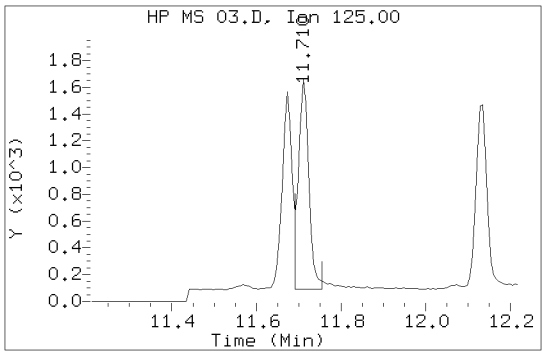
BEFORE

MASS
125
AREA
2696
HEIGHT
1563
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2696
HEIGHT
1563
18-Dec-2023
10:16
linh
pham

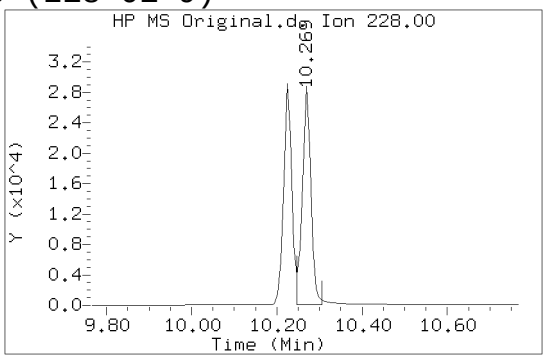


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\03.D
Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

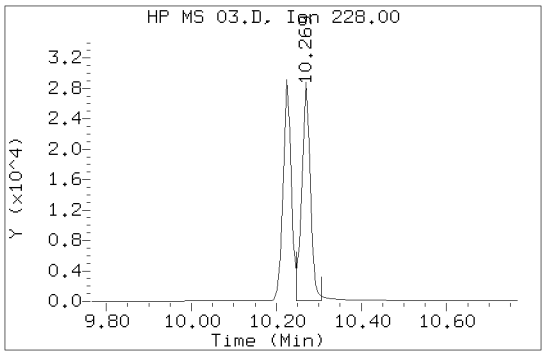
Chrysene (218-01-9)

Reason Code:

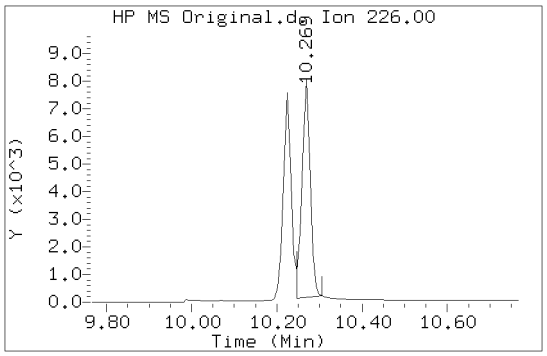
BEFORE
MASS
228
AREA
40103
HEIGHT
28734
18-Dec-2023
10:16
linh
pham



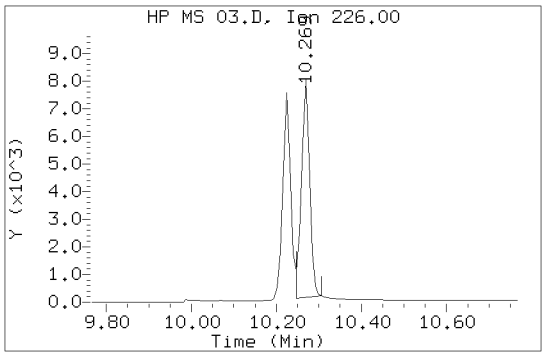
AFTER
MASS
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40103
HEIGHT
28734
18-Dec-2023
10:16
linh
pham



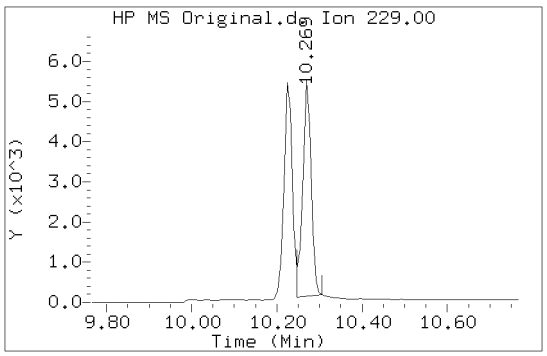
BEFORE
MASS
226
AREA
10582
HEIGHT
7868
18-Dec-2023
10:16
linh
pham



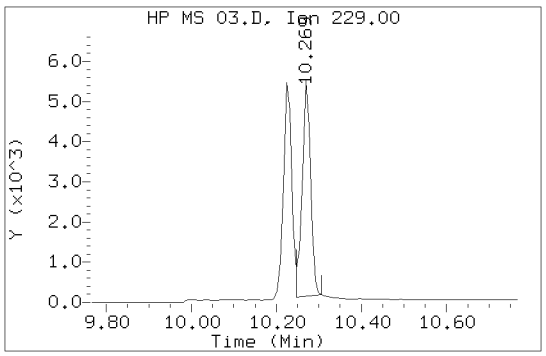
AFTER
MASS
226
AREA
10582
HEIGHT
7868
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
229
AREA
7403
HEIGHT
5367
18-Dec-2023
10:16
linh
pham



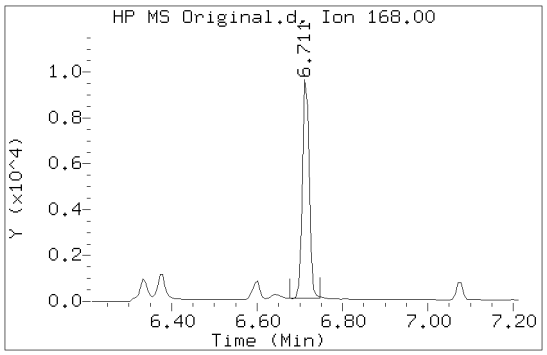
AFTER
MASS
229
AREA
7403
HEIGHT
5367
18-Dec-2023
10:16
linh
pham



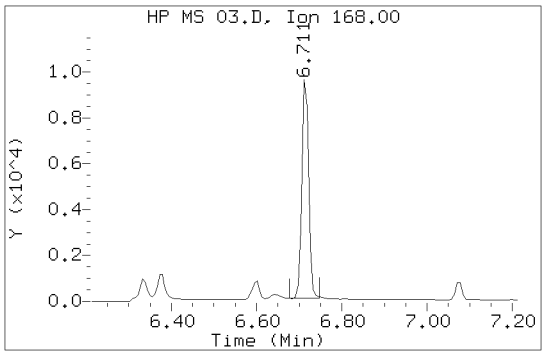
Dibenzofuran (132-64-9)

Reason Code:

BEFORE
MASS
168
AREA
10259
HEIGHT
9535
18-Dec-2023
10:16
linh
pham



AFTER
MASS
168
AREA
10259
HEIGHT
9535
18-Dec-2023
10:16
linh
pham



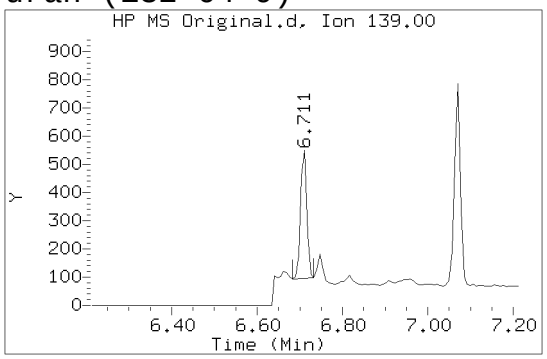
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Dibenzofuran (132-64-9)

Reason Code:

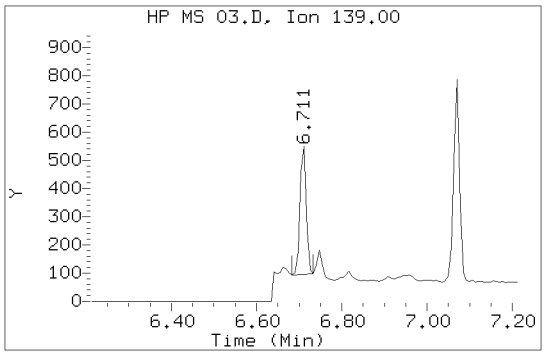
BEFORE

MASS
139
AREA
454
HEIGHT
454
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
454
HEIGHT
454
18-Dec-2023
10:16
linh
pham

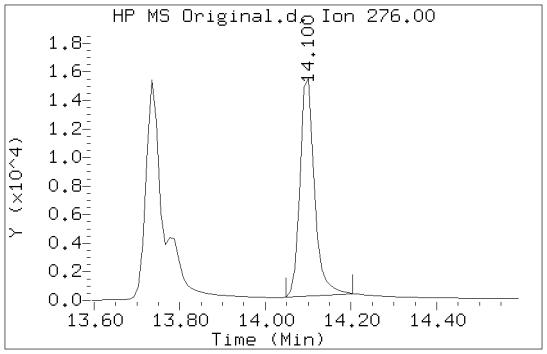


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

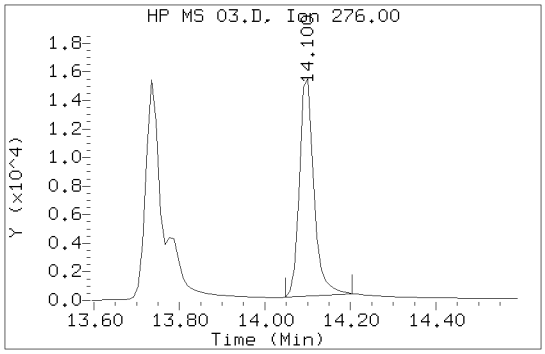
BEFORE

MASS
276
AREA
35700
HEIGHT
15214
18-Dec-2023
10:16
linh
pham



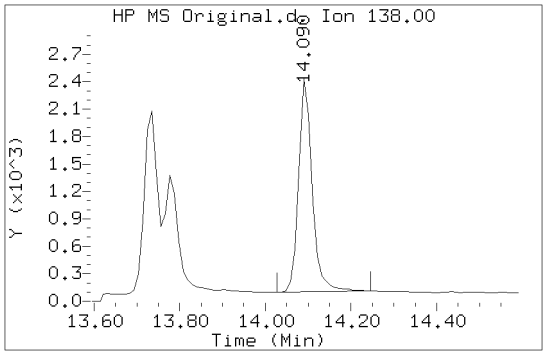
AFTER

MASS
276
AREA
35700
HEIGHT
15214
18-Dec-2023
10:16
linh
pham



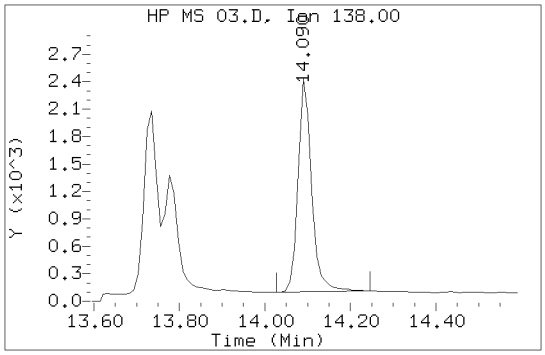
BEFORE

MASS
138
AREA
5100
HEIGHT
2328
18-Dec-2023
10:16
linh
pham



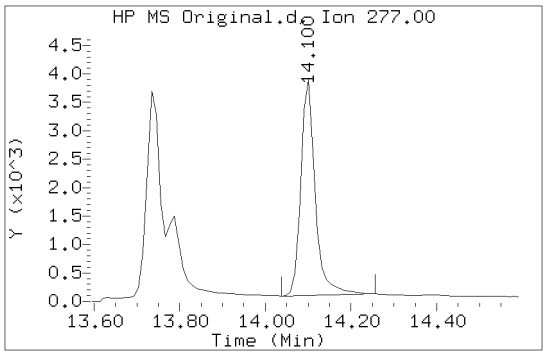
AFTER

MASS
138
AREA
5100
HEIGHT
2328
18-Dec-2023
10:16
linh
pham



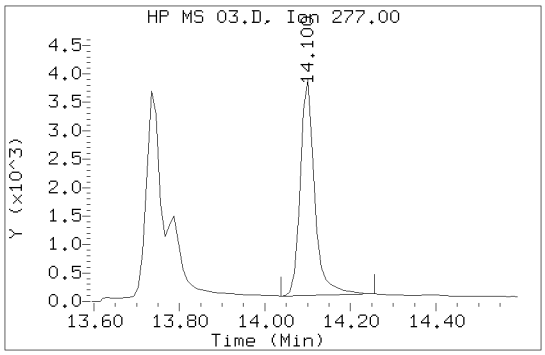
BEFORE

MASS
277
AREA
8789
HEIGHT
3792
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
8789
HEIGHT
3792
18-Dec-2023
10:16
linh
pham

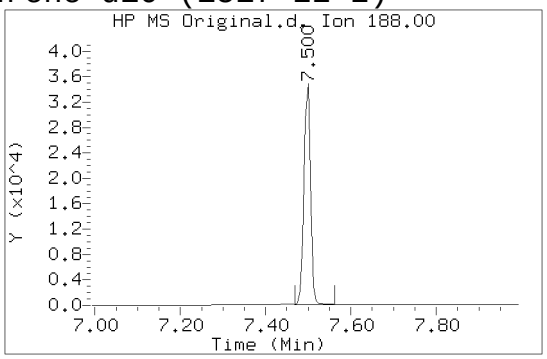


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Inj Date : 12-DEC-2023 13:20
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LabSampID : PAHSIM-0.08

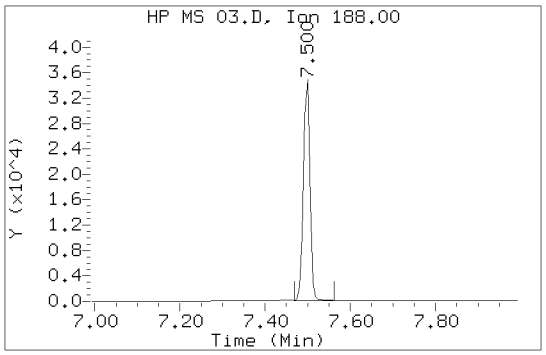
Phenanthrene-d10 (1517-22-2)

Reason Code:

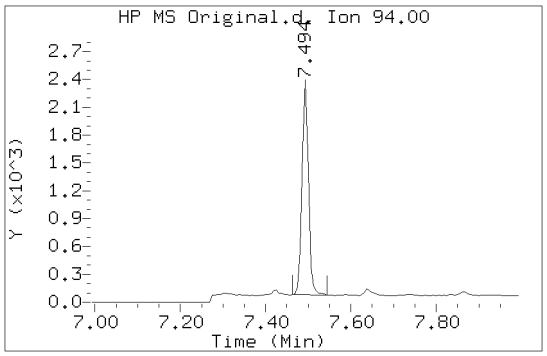
BEFORE
MASS
188
AREA
35822
HEIGHT
34766
18-Dec-2023
10:16
linh
pham



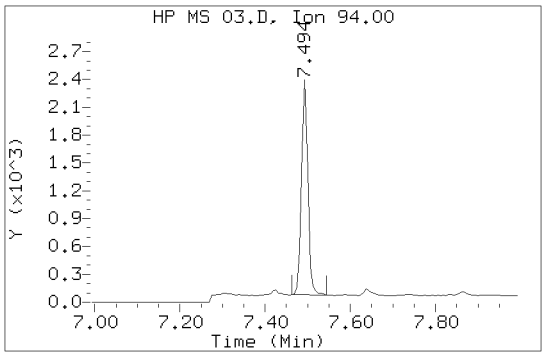
AFTER
MASS
188
AREA
35822
HEIGHT
34766
18-Dec-2023
10:16
linh
pham



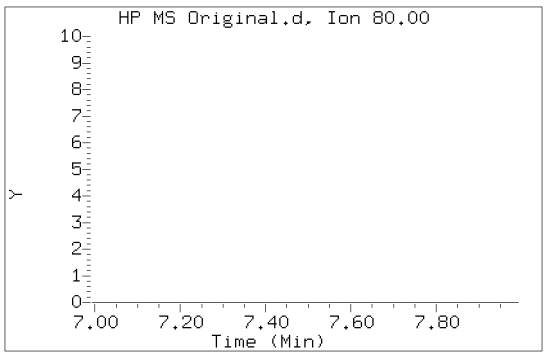
BEFORE
MASS
94
AREA
2337
HEIGHT
2311
18-Dec-2023
10:16
linh
pham



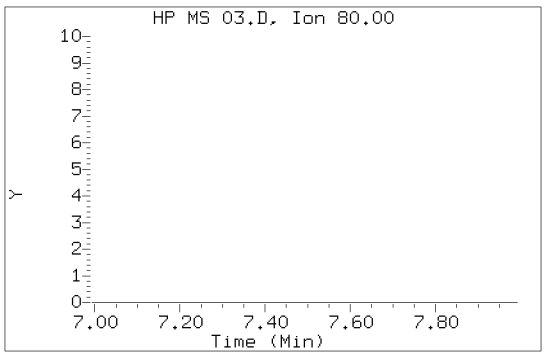
AFTER
MASS
94
AREA
2337
HEIGHT
2311
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



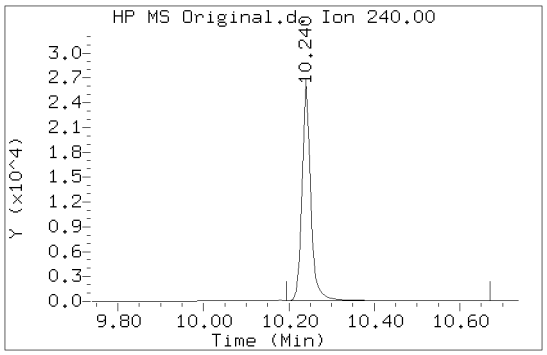
AFTER
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



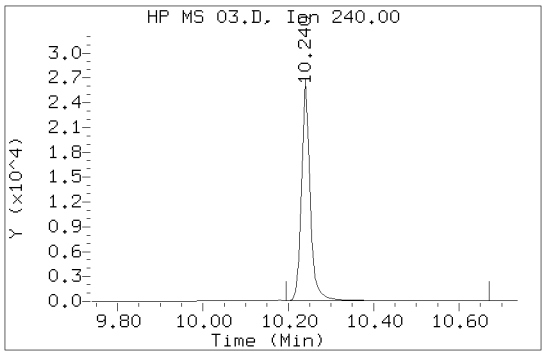
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
37227
HEIGHT
26718
18-Dec-2023
10:16
linh
pham



AFTER
MASS
240
AREA
37227
HEIGHT
26718
18-Dec-2023
10:16
linh
pham



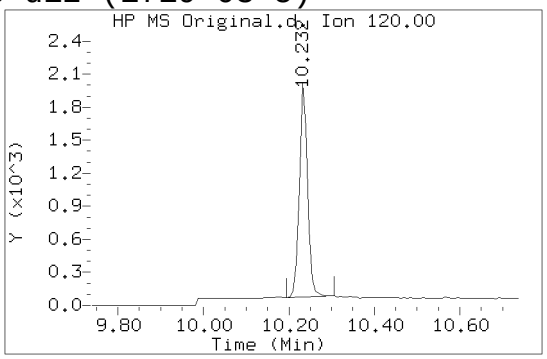
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

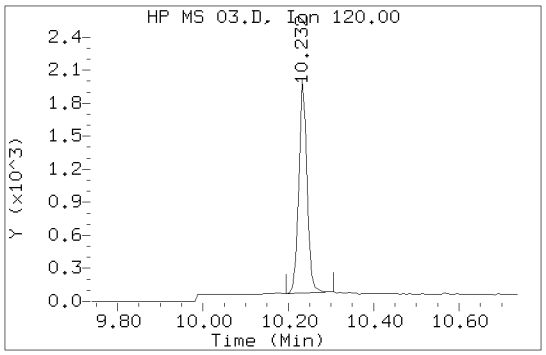
BEFORE

MASS
120
AREA
2544
HEIGHT
1938
18-Dec-2023
10:16
linh
pham



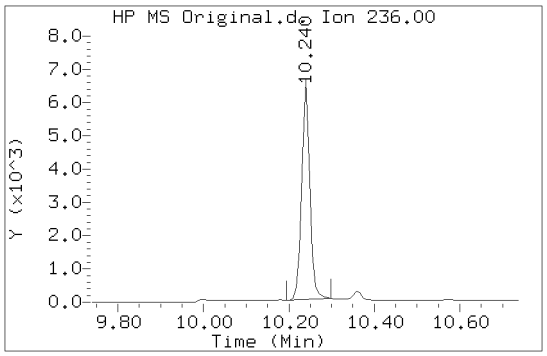
AFTER

MASS
120
AREA
2544
HEIGHT
1938
18-Dec-2023
10:16
linh
pham



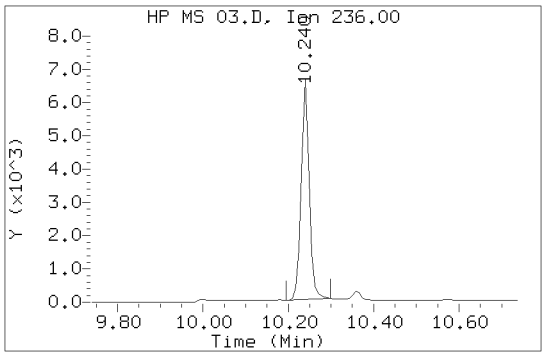
BEFORE

MASS
236
AREA
8536
HEIGHT
6599
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
8536
HEIGHT
6599
18-Dec-2023
10:16
linh
pham

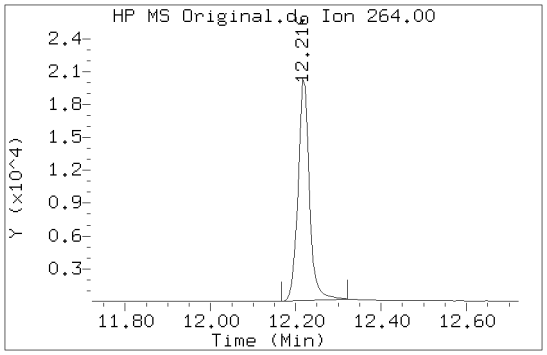


Perylene-d12 (1520-96-3)

Reason Code:

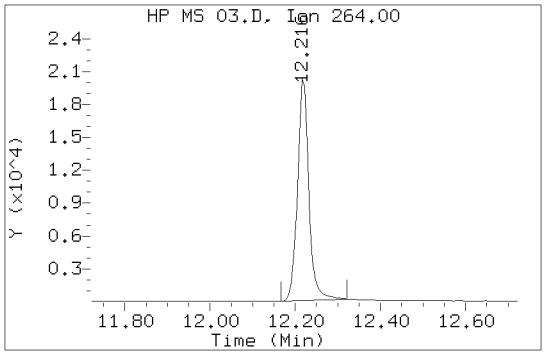
BEFORE

MASS
264
AREA
37882
HEIGHT
20212
18-Dec-2023
10:16
linh
pham



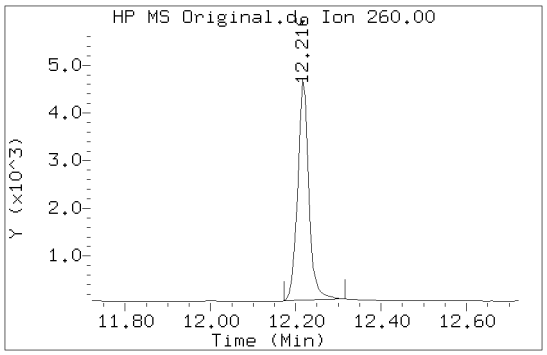
AFTER

MASS
264
AREA
37882
HEIGHT
20212
18-Dec-2023
10:16
linh
pham



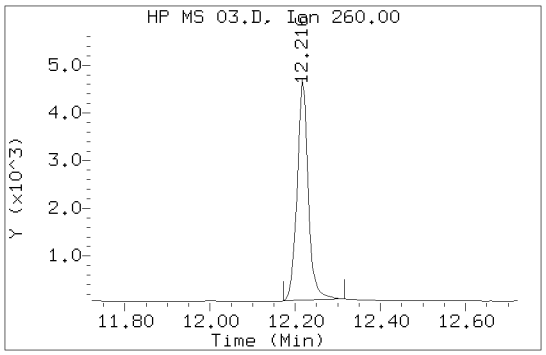
BEFORE

MASS
260
AREA
8473
HEIGHT
4621
18-Dec-2023
10:16
linh
pham



AFTER

MASS
260
AREA
8473
HEIGHT
4621
18-Dec-2023
10:16
linh
pham



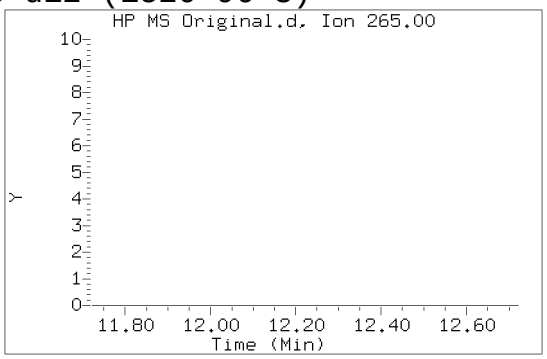
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Inj Date : 12-DEC-2023 13:20
InstruID : SV6.i
LabSampID : PAHSIM-0.08

Perylene-d12 (1520-96-3)

Reason Code:

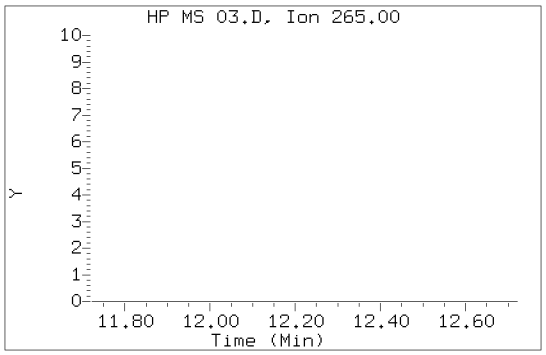
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

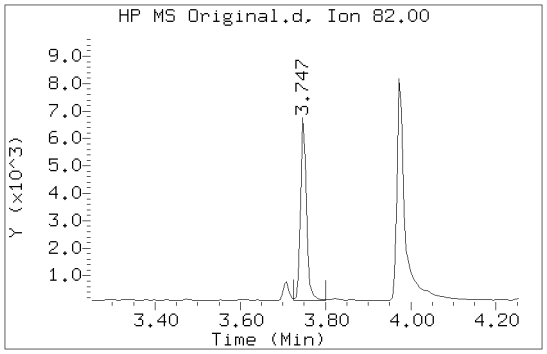


Nitrobenzene-d5 (4165-60-0)

Reason Code:

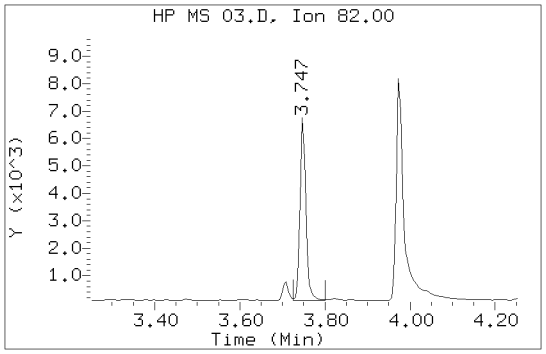
BEFORE

MASS
82
AREA
6262
HEIGHT
6643
18-Dec-2023
10:16
linh
pham



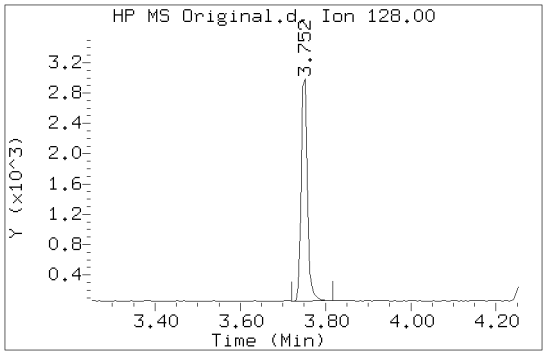
AFTER

MASS
82
AREA
6262
HEIGHT
6643
18-Dec-2023
10:16
linh
pham



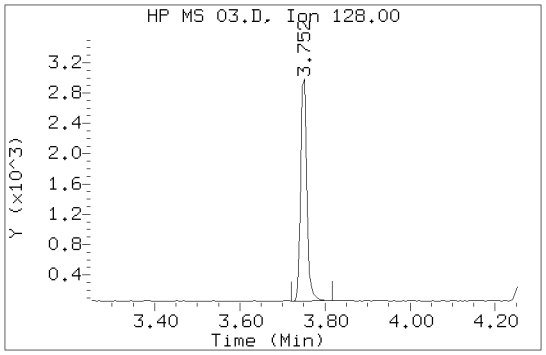
BEFORE

MASS
128
AREA
2932
HEIGHT
2926
18-Dec-2023
10:16
linh
pham



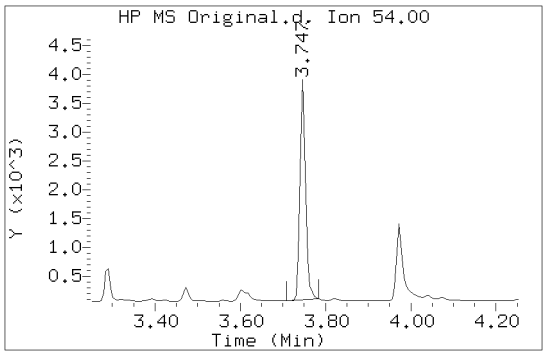
AFTER

MASS
128
AREA
2932
HEIGHT
2926
18-Dec-2023
10:16
linh
pham



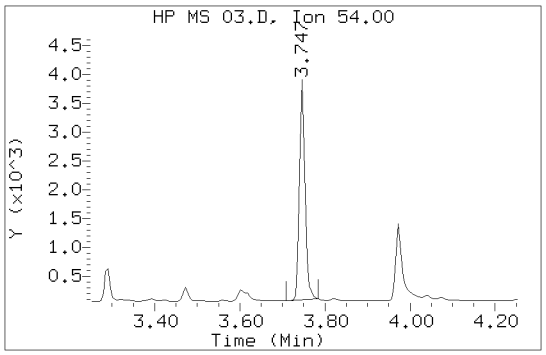
BEFORE

MASS
54
AREA
3459
HEIGHT
3815
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
3459
HEIGHT
3815
18-Dec-2023
10:16
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D Page 1
Report Date: 18-Dec-2023 10:17

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

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Inj Date : 12-DEC-2023 13:58
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 13:20 Cal File: 03.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	22175	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.746	3.746	(0.853)	588	0.01000	0.009616(M)
* 86 Acenaphthene-d10	164	6.056	6.056	(1.000)	13618	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	2011	0.01000	0.009273(M)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	28419	0.10000	(M)
* 182 Chrysene-d12	240	10.243	10.243	(1.000)	26412	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.892)	3044	0.01000	0.01135(Q)
* 198 Perylene-d12	264	12.224	12.224	(1.000)	28037	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	2342	0.01000	0.009626(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	1471	0.01000	0.009041(M)
62 1-Methylnaphthalene	142	5.150	5.150	(1.173)	1404	0.01000	0.009248(M)
83 Acenaphthylene	152	5.915	5.915	(0.977)	2247	0.01000	0.009024(M)
88 Acenaphthene	154	6.086	6.086	(1.005)	1535	0.01000	0.009777(M)
98 Fluorene	166	6.587	6.587	(1.088)	1791	0.01000	0.009279(M)
92 Dibenzofuran	168	6.716	6.716	(1.109)	961	0.01000	0.009441(M)
128 Phenanthrene	178	7.516	7.516	(1.002)	3022	0.01000	0.009715(M)
130 Anthracene	178	7.566	7.566	(1.009)	2993	0.01000	0.009656(M)
149 Fluoranthene	202	8.681	8.681	(1.158)	3567	0.01000	0.009641(M)
155 Pyrene	202	8.900	8.900	(0.869)	3927	0.01000	0.01023(M)

181 Benzo(a)Anthracene	228	10.228	10.228 (1.005)	3679	0.01000	0.01027
183 Chrysene	228	10.272	10.272 (1.009)	4081	0.01000	0.01022

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.955)	3363	0.01000	0.009663(M)
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.958)	4159	0.01000	0.009876(M)
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	3316	0.01000	0.009831(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	4117	0.01000	0.01020(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.128)	3270	0.01000	0.009753(M)
212 Benzo(g,h,i)perylene	276	14.102	14.102	(1.154)	3852	0.01000	0.01068(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D

Date : 12-DEC-2023 13:58

Client ID: PAHSIM-0.010

Instrument: SV6.i

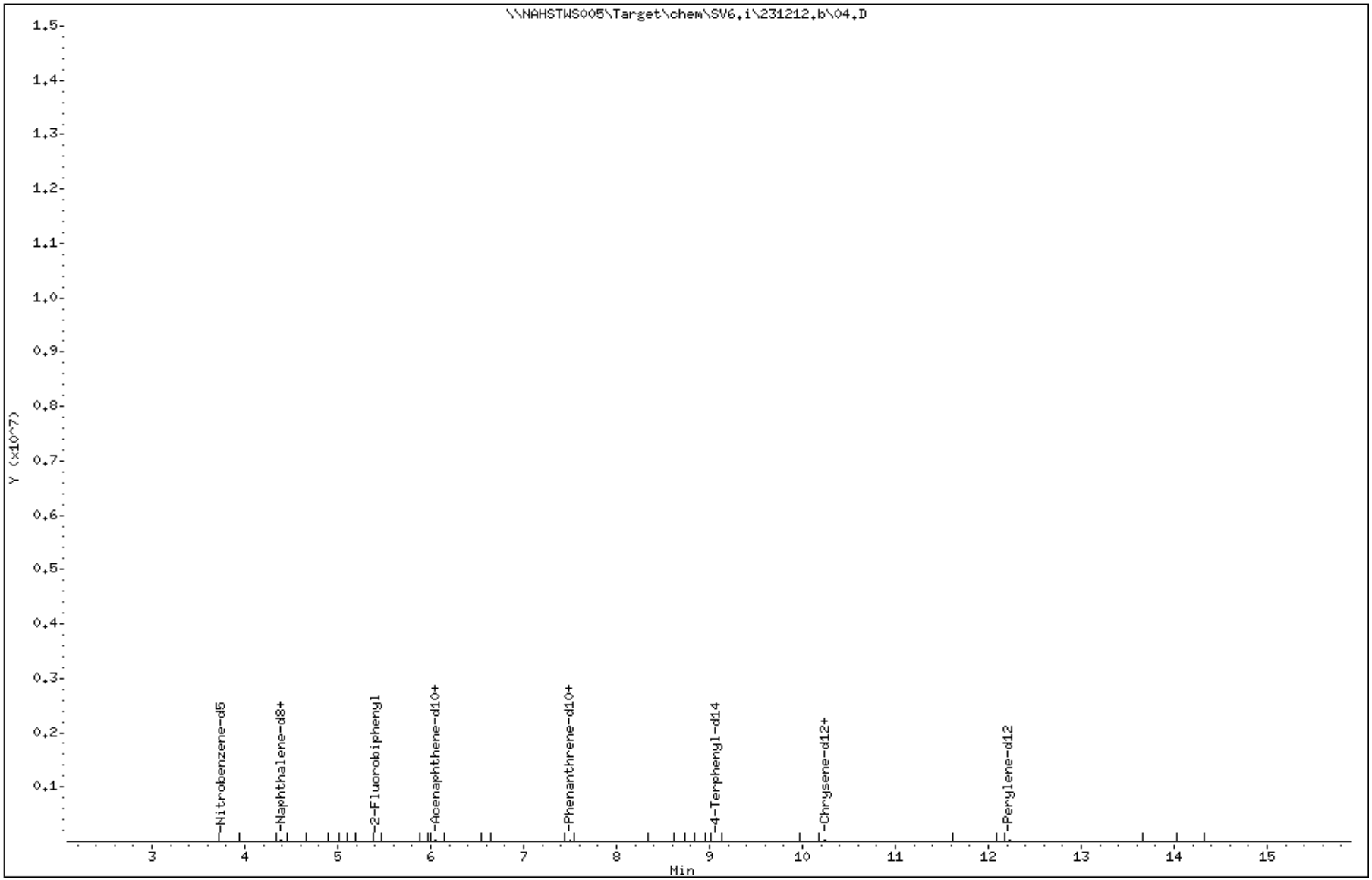
Sample Info: PAHSIM-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



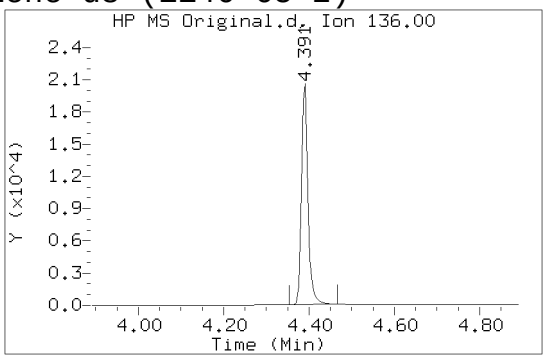
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Naphthalene-d8 (1146-65-2)

Reason Code:

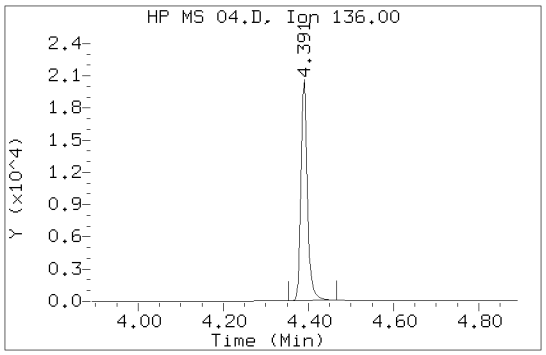
BEFORE

MASS
136
AREA
22175
HEIGHT
20569
18-Dec-2023
10:16
linh
pham



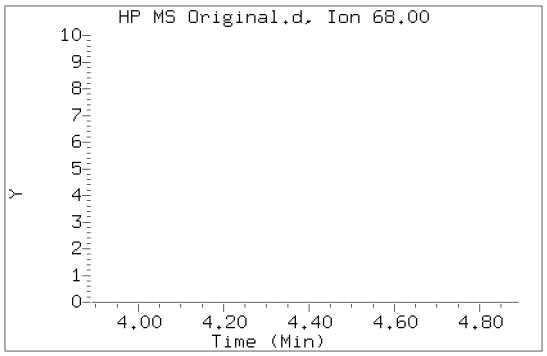
AFTER

MASS
136
AREA
22175
HEIGHT
20569
18-Dec-2023
10:16
linh
pham



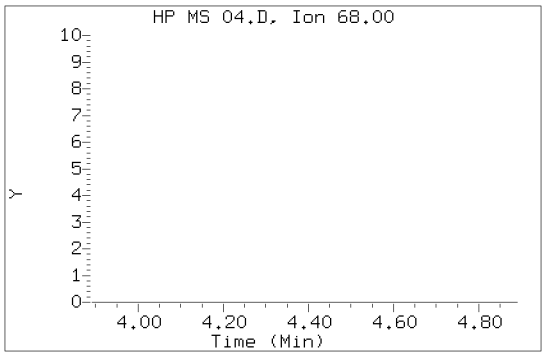
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

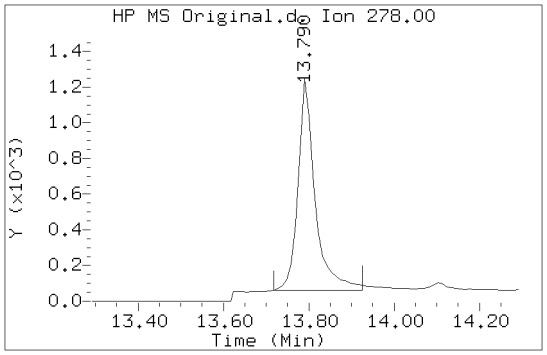


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

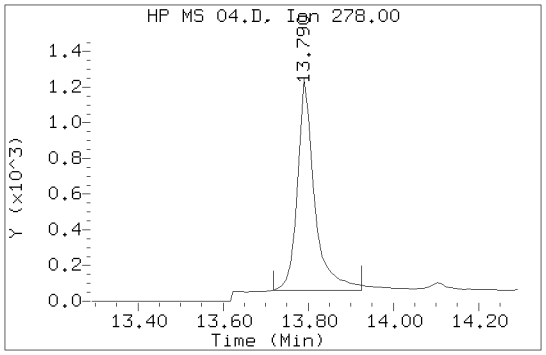
BEFORE

MASS
278
AREA
3270
HEIGHT
1184
18-Dec-2023
10:16
linh
pham



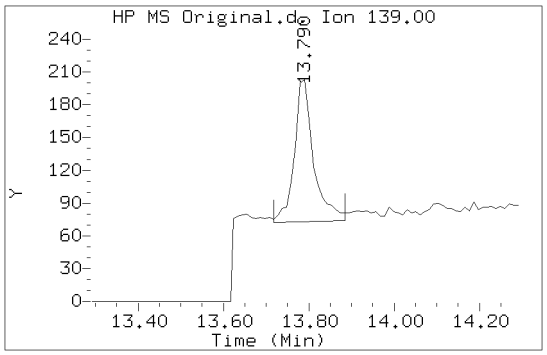
AFTER

MASS
278
AREA
3270
HEIGHT
1184
18-Dec-2023
10:16
linh
pham



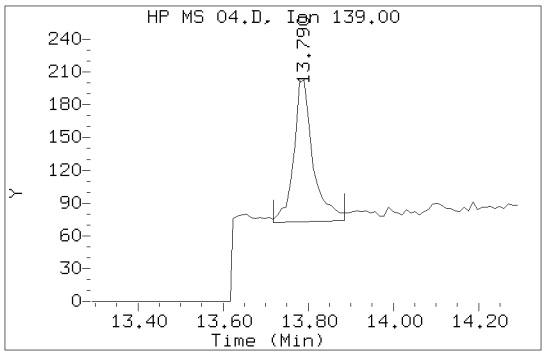
BEFORE

MASS
139
AREA
408
HEIGHT
130
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
408
HEIGHT
130
18-Dec-2023
10:16
linh
pham



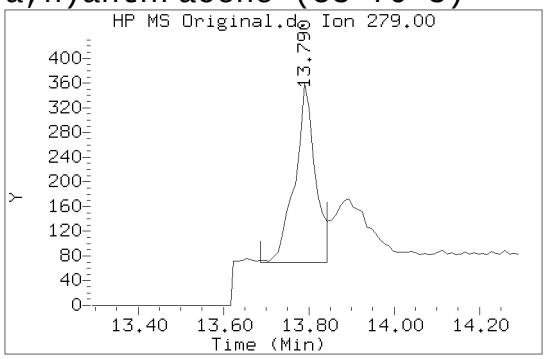
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

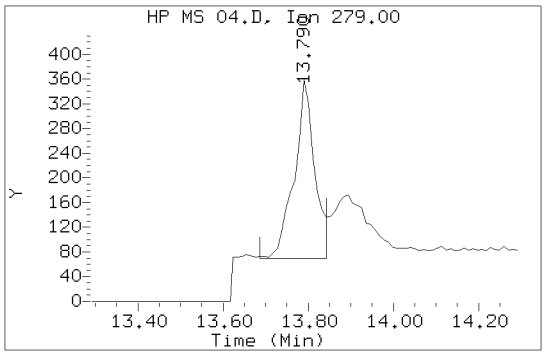
BEFORE

MASS
279
AREA
960
HEIGHT
289
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
960
HEIGHT
289
18-Dec-2023
10:16
linh
pham

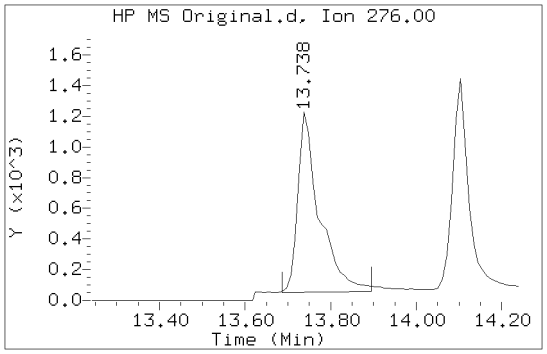


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

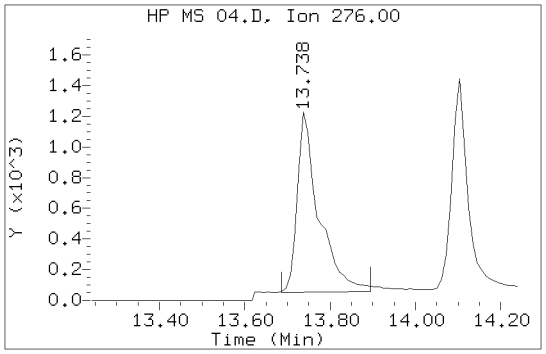
BEFORE

MASS
276
AREA
4117
HEIGHT
1177
18-Dec-2023
10:16
linh
pham



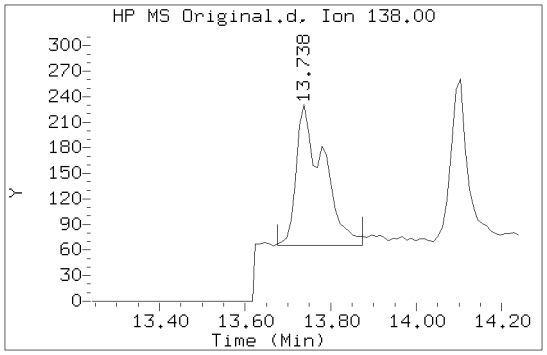
AFTER

MASS
276
AREA
4117
HEIGHT
1177
18-Dec-2023
10:16
linh
pham



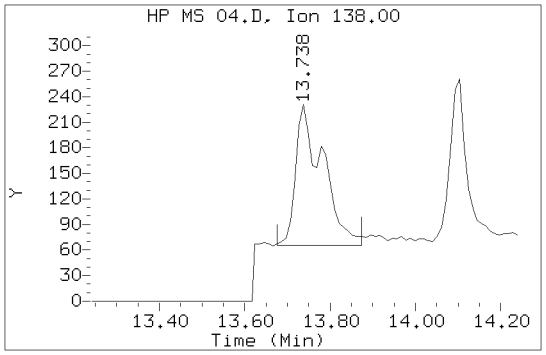
BEFORE

MASS
138
AREA
726
HEIGHT
165
18-Dec-2023
10:16
linh
pham



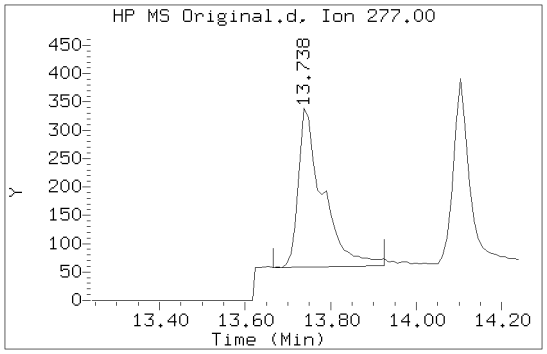
AFTER

MASS
138
AREA
726
HEIGHT
165
18-Dec-2023
10:16
linh
pham



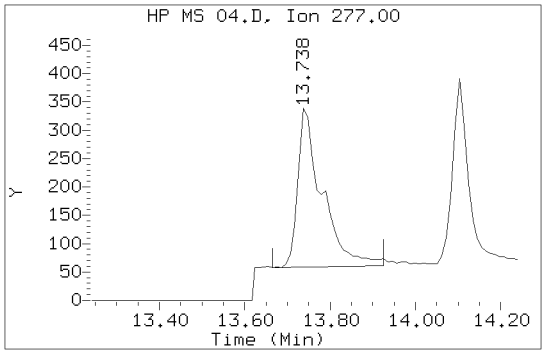
BEFORE

MASS
277
AREA
1108
HEIGHT
280
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
1108
HEIGHT
280
18-Dec-2023
10:16
linh
pham



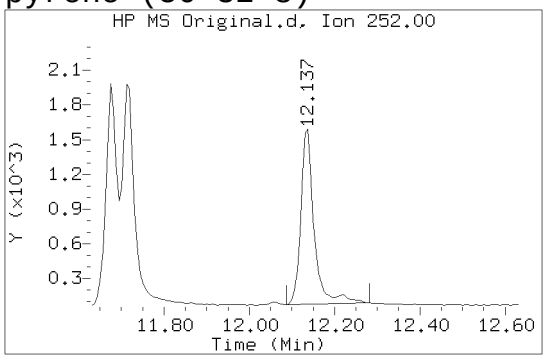
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(a)pyrene (50-32-8)

Reason Code:

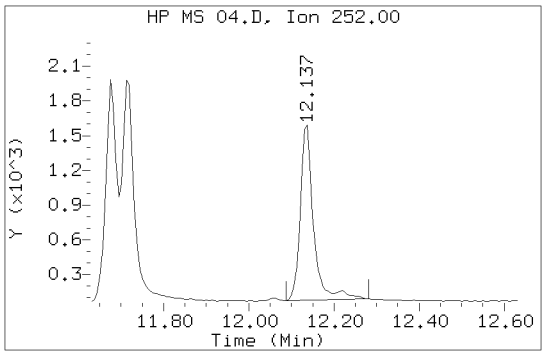
BEFORE

MASS
252
AREA
3316
HEIGHT
1510
18-Dec-2023
10:16
linh
pham



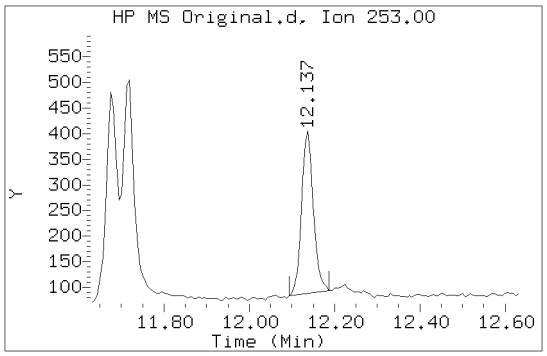
AFTER

MASS
252
AREA
3316
HEIGHT
1510
18-Dec-2023
10:16
linh
pham



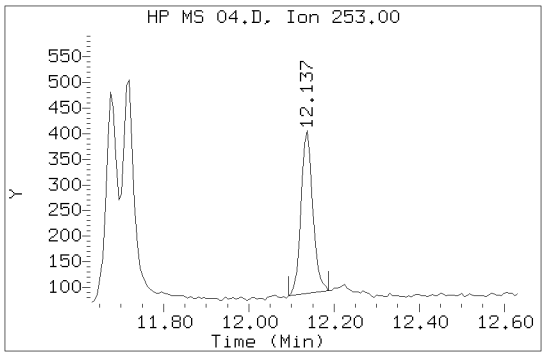
BEFORE

MASS
253
AREA
615
HEIGHT
317
18-Dec-2023
10:16
linh
pham



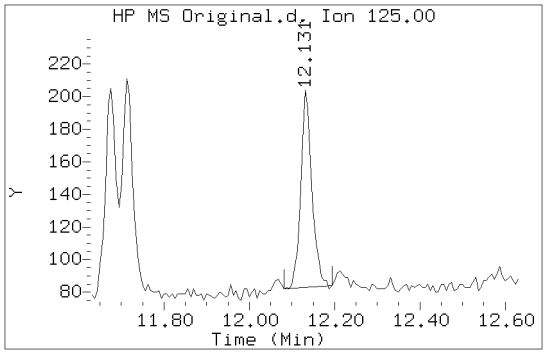
AFTER

MASS
253
AREA
615
HEIGHT
317
18-Dec-2023
10:16
linh
pham



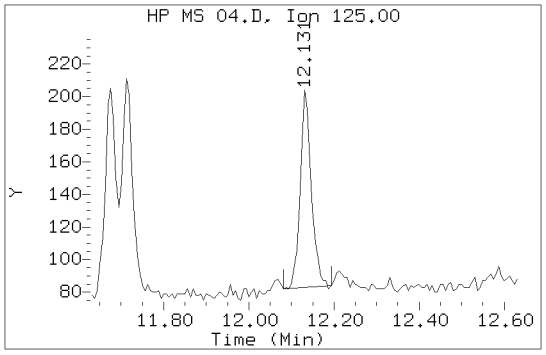
BEFORE

MASS
125
AREA
221
HEIGHT
121
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
221
HEIGHT
121
18-Dec-2023
10:16
linh
pham

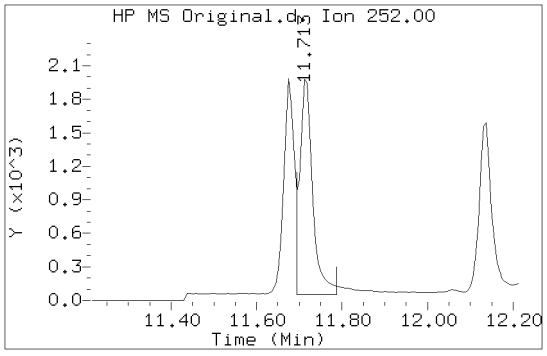


Benzo(k)fluoranthene (207-08-9)

Reason Code:

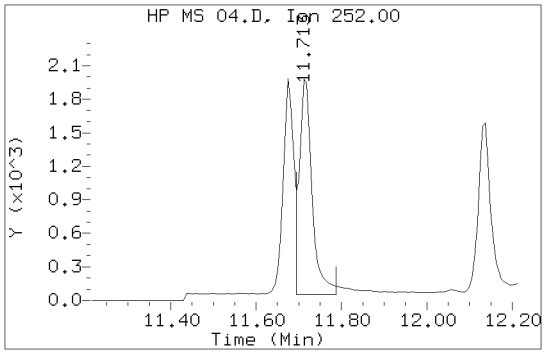
BEFORE

MASS
252
AREA
4159
HEIGHT
1931
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
4159
HEIGHT
1931
18-Dec-2023
10:16
linh
pham

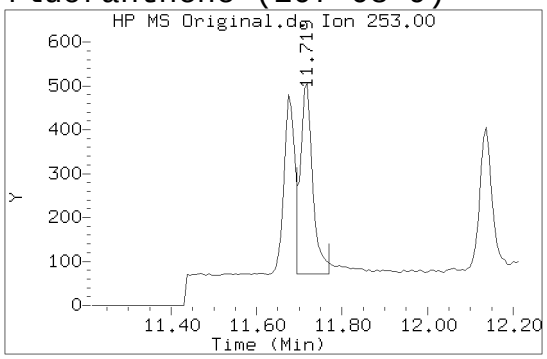


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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

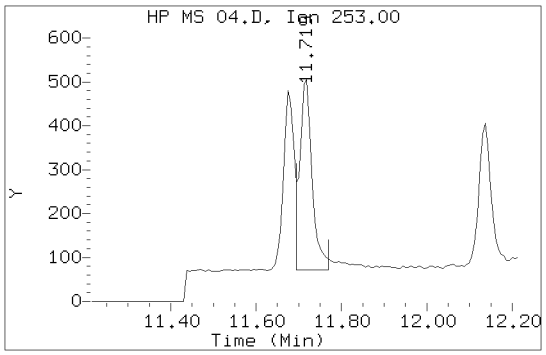
Benzo(k)fluoranthene (207-08-9)

Reason Code:

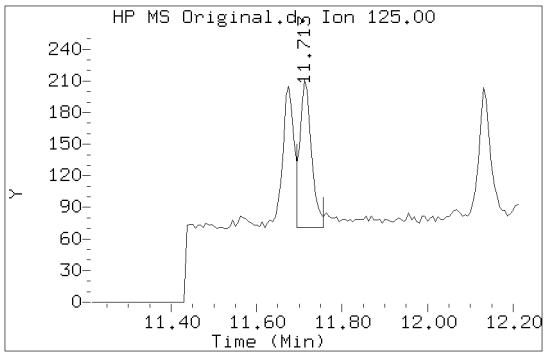
BEFORE
MASS
253
AREA
904
HEIGHT
434
18-Dec-2023
10:16
linh
pham



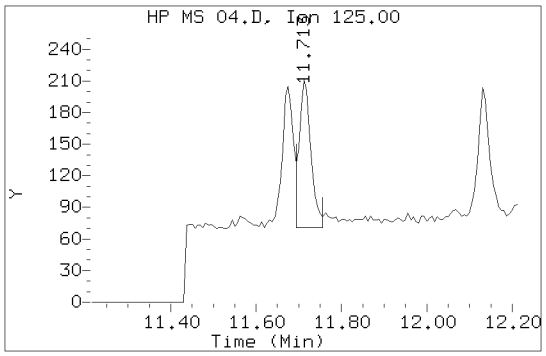
AFTER
MASS
253
AREA
904
HEIGHT
434
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
275
HEIGHT
140
18-Dec-2023
10:16
linh
pham



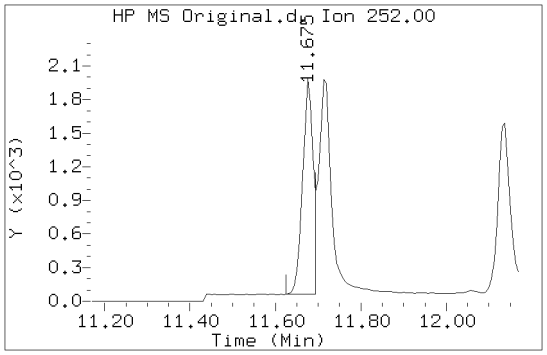
AFTER
MASS
125
AREA
275
HEIGHT
140
18-Dec-2023
10:16
linh
pham



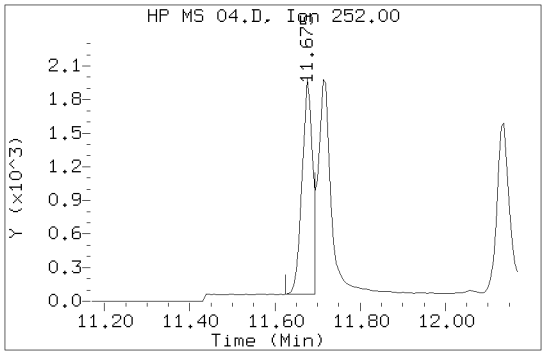
Benzo(b)fluoranthene (205-99-2)

Reason Code:

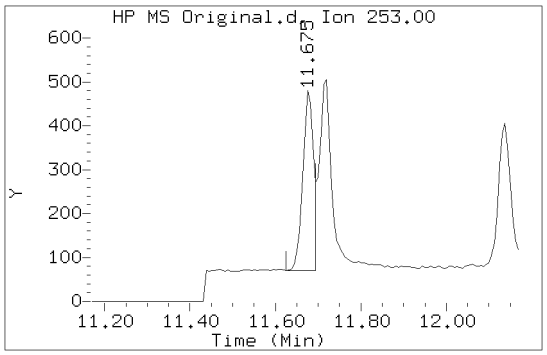
BEFORE
MASS
252
AREA
3363
HEIGHT
1920
18-Dec-2023
10:16
linh
pham



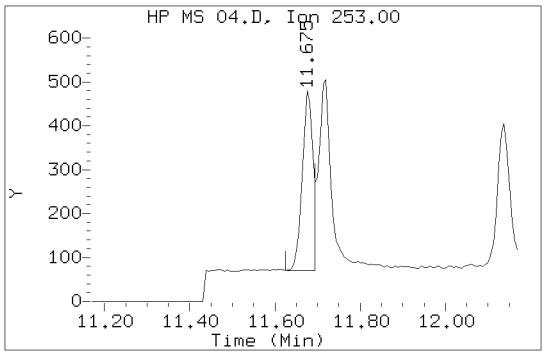
AFTER
MASS
252
AREA
3363
HEIGHT
1920
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
253
AREA
727
HEIGHT
411
18-Dec-2023
10:16
linh
pham



AFTER
MASS
253
AREA
727
HEIGHT
411
18-Dec-2023
10:16
linh
pham



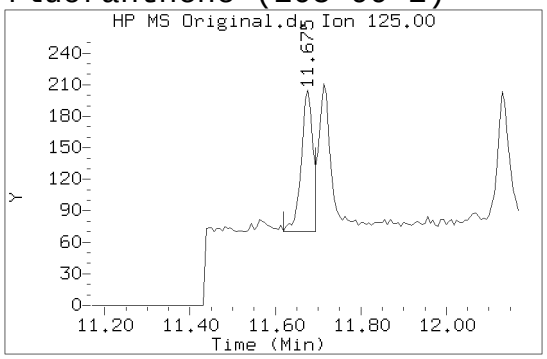
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(b)fluoranthene (205-99-2)

Reason Code:

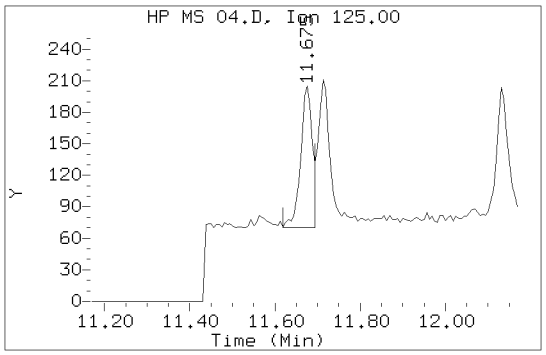
BEFORE

MASS
125
AREA
260
HEIGHT
135
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
260
HEIGHT
135
18-Dec-2023
10:16
linh
pham

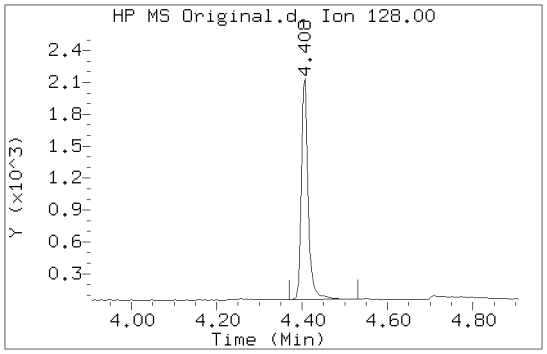


Naphthalene (91-20-3)

Reason Code:

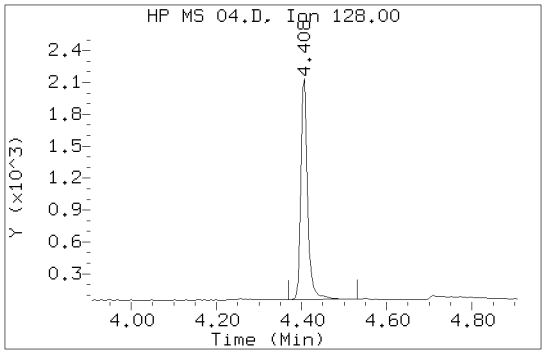
BEFORE

MASS
128
AREA
2342
HEIGHT
2076
18-Dec-2023
10:16
linh
pham



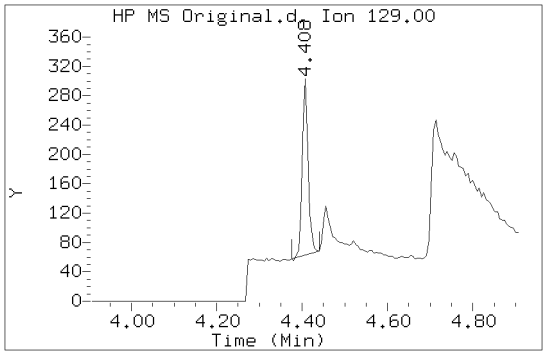
AFTER

MASS
128
AREA
2342
HEIGHT
2076
18-Dec-2023
10:16
linh
pham



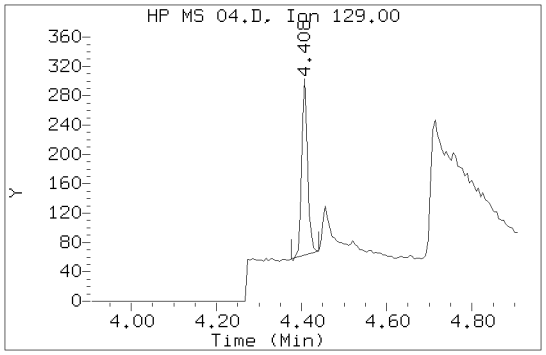
BEFORE

MASS
129
AREA
231
HEIGHT
239
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
231
HEIGHT
239
18-Dec-2023
10:16
linh
pham

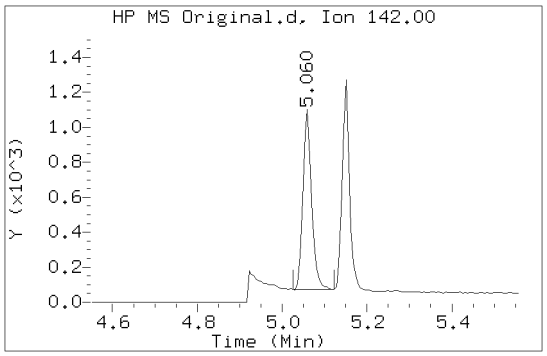


2-Methylnaphthalene (91-57-6)

Reason Code:

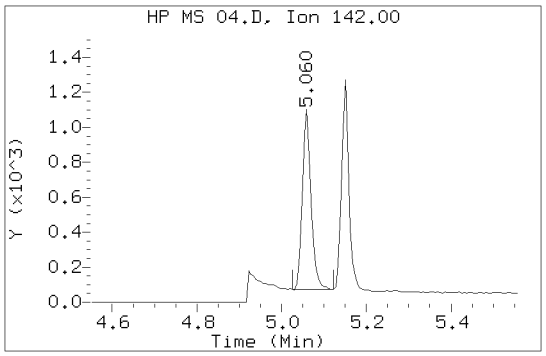
BEFORE

MASS
142
AREA
1471
HEIGHT
1027
18-Dec-2023
10:16
linh
pham



AFTER

MASS
142
AREA
1471
HEIGHT
1027
18-Dec-2023
10:16
linh
pham



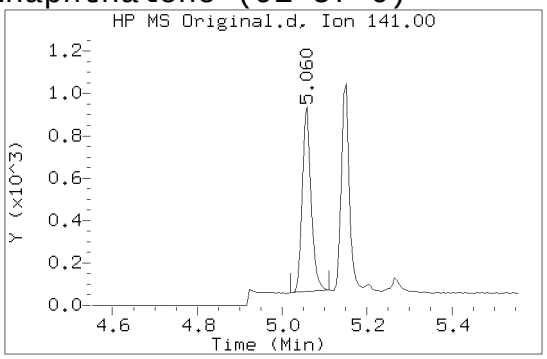
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

2-Methylnaphthalene (91-57-6)

Reason Code:

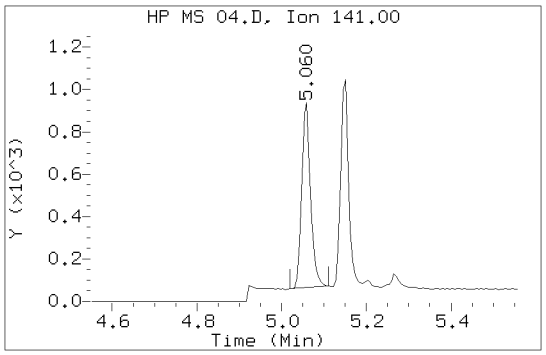
BEFORE

MASS
141
AREA
1255
HEIGHT
870
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
1255
HEIGHT
870
18-Dec-2023
10:16
linh
pham

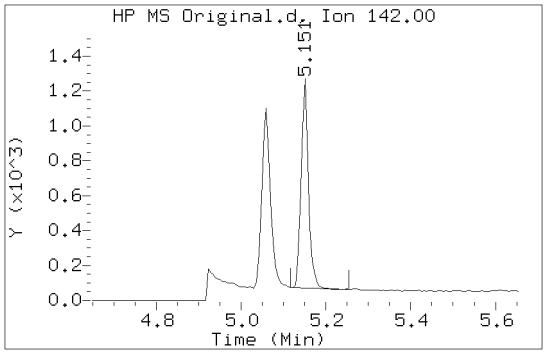


1-Methylnaphthalene (90-12-0)

Reason Code:

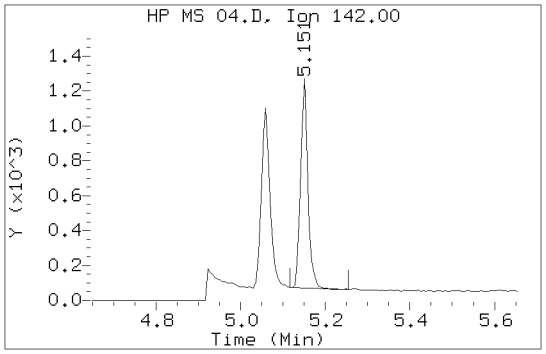
BEFORE

MASS
142
AREA
1404
HEIGHT
1201
18-Dec-2023
10:16
linh
pham



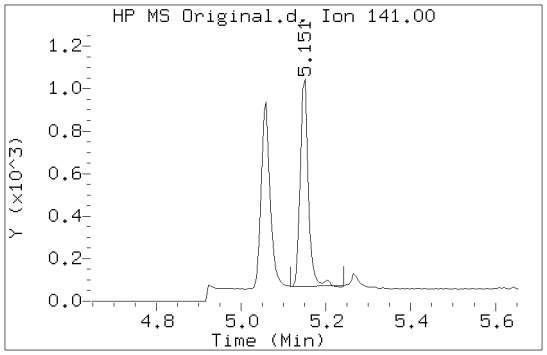
AFTER

MASS
142
AREA
1404
HEIGHT
1201
18-Dec-2023
10:16
linh
pham



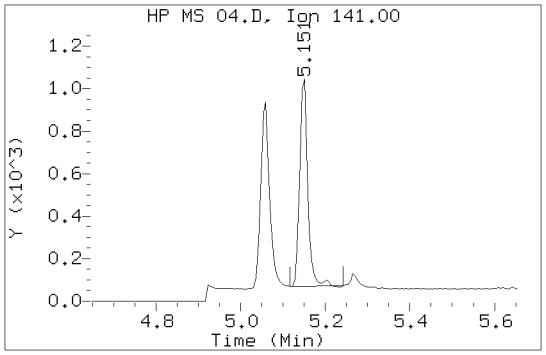
BEFORE

MASS
141
AREA
1265
HEIGHT
975
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
1265
HEIGHT
975
18-Dec-2023
10:16
linh
pham

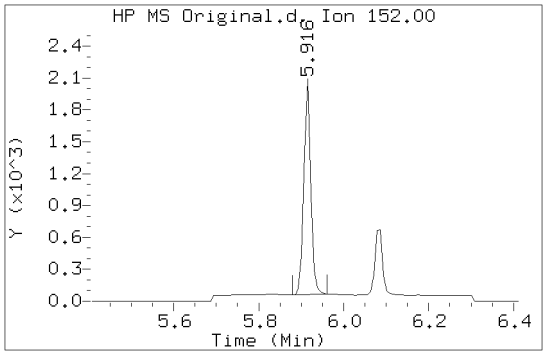


Acenaphthylene (208-96-8)

Reason Code:

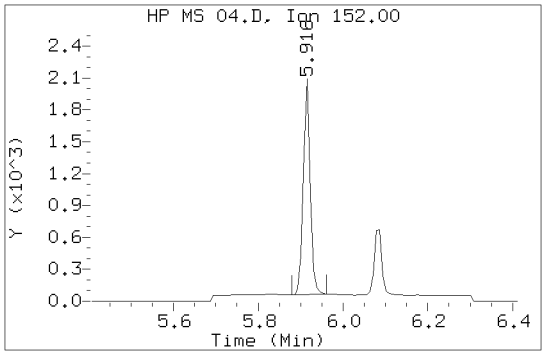
BEFORE

MASS
152
AREA
2247
HEIGHT
2028
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
2247
HEIGHT
2028
18-Dec-2023
10:16
linh
pham



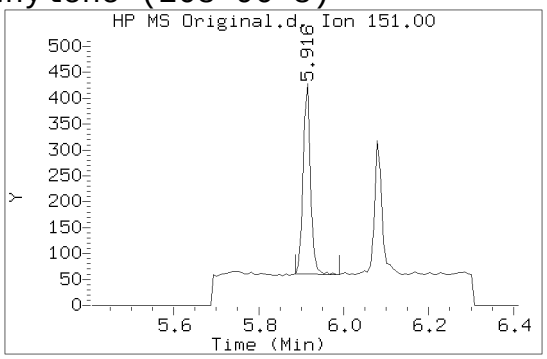
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Acenaphthylene (208-96-8)

Reason Code:

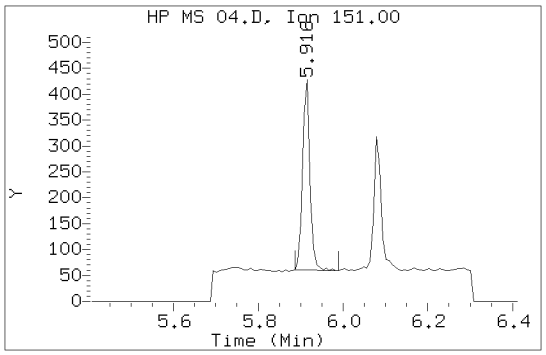
BEFORE

MASS
151
AREA
432
HEIGHT
367
18-Dec-2023
10:16
linh
pham



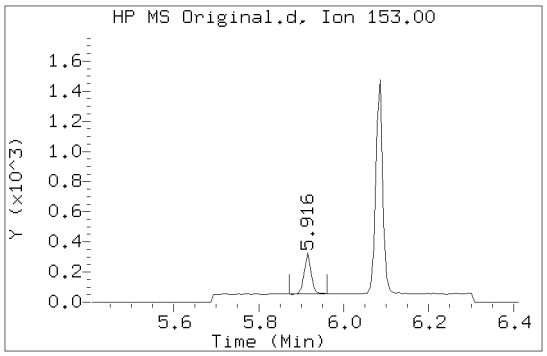
AFTER

MASS
151
AREA
432
HEIGHT
367
18-Dec-2023
10:16
linh
pham



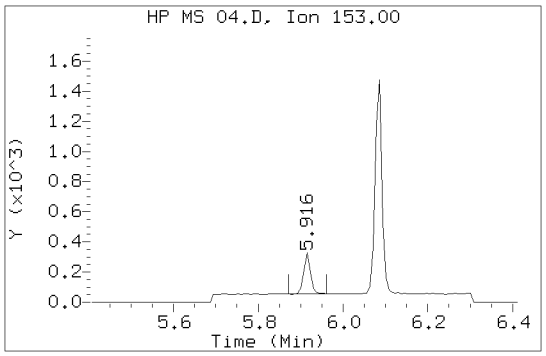
BEFORE

MASS
153
AREA
301
HEIGHT
274
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
301
HEIGHT
274
18-Dec-2023
10:16
linh
pham

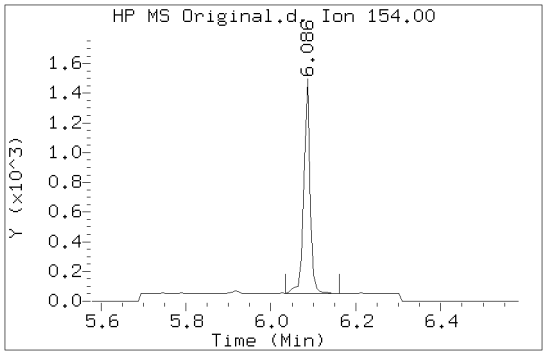


Acenaphthene (83-32-9)

Reason Code:

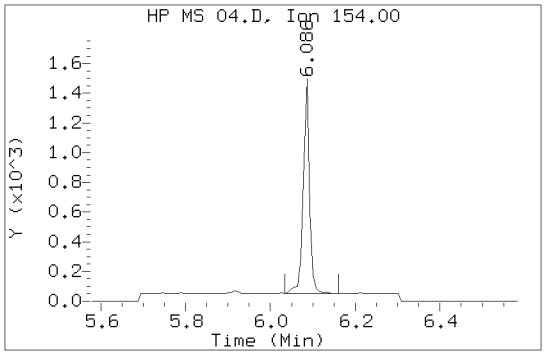
BEFORE

MASS
154
AREA
1535
HEIGHT
1443
18-Dec-2023
10:16
linh
pham



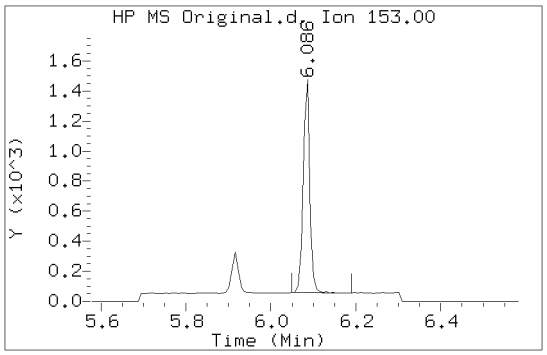
AFTER

MASS
154
AREA
1535
HEIGHT
1443
18-Dec-2023
10:16
linh
pham



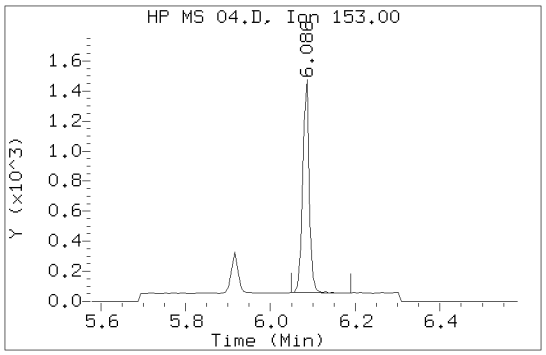
BEFORE

MASS
153
AREA
1563
HEIGHT
1417
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
1563
HEIGHT
1417
18-Dec-2023
10:16
linh
pham



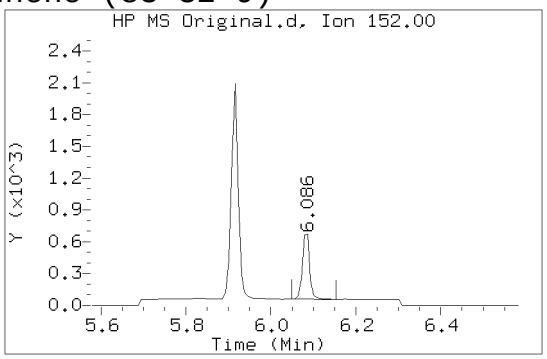
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Acenaphthene (83-32-9)

Reason Code:

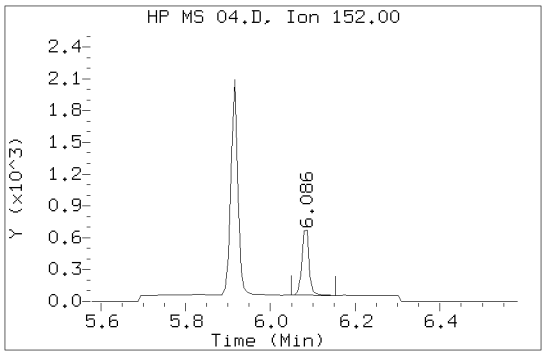
BEFORE

MASS
152
AREA
754
HEIGHT
613
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
754
HEIGHT
613
18-Dec-2023
10:16
linh
pham

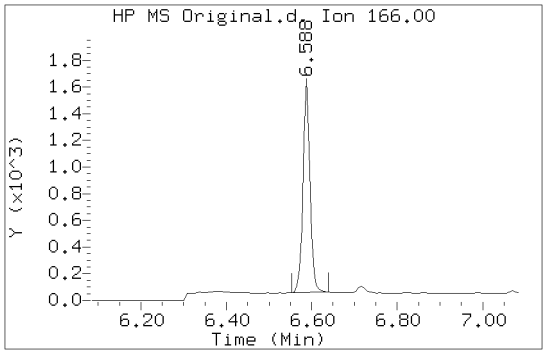


Fluorene (86-73-7)

Reason Code:

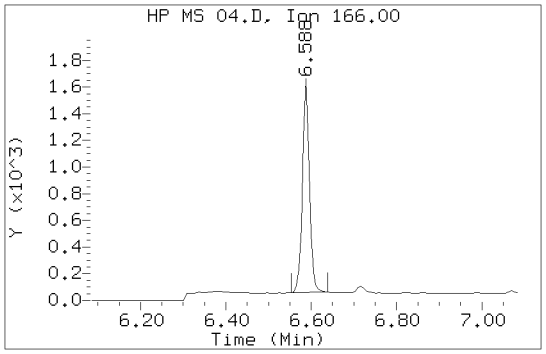
BEFORE

MASS
166
AREA
1791
HEIGHT
1603
18-Dec-2023
10:16
linh
pham



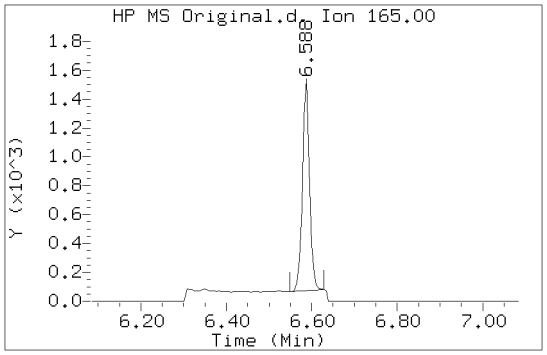
AFTER

MASS
166
AREA
1791
HEIGHT
1603
18-Dec-2023
10:16
linh
pham



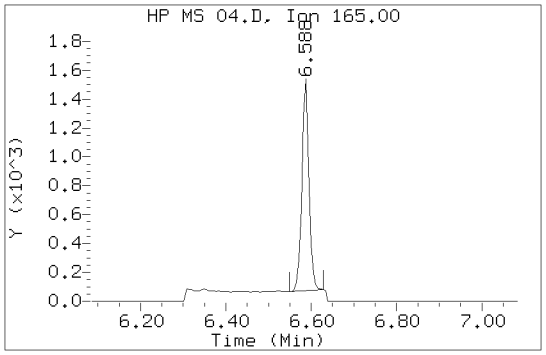
BEFORE

MASS
165
AREA
1668
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



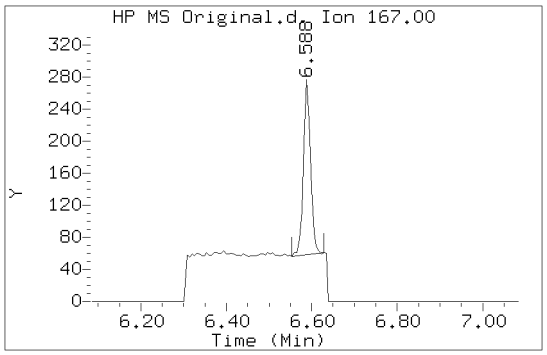
AFTER

MASS
165
AREA
1668
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



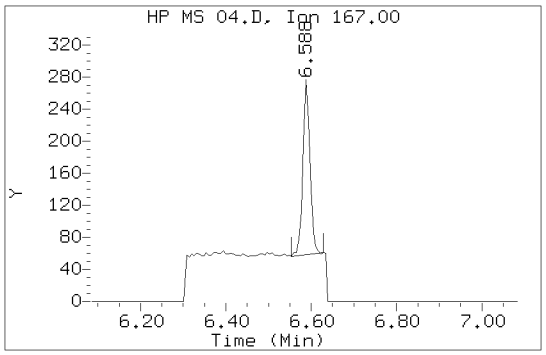
BEFORE

MASS
167
AREA
249
HEIGHT
218
18-Dec-2023
10:16
linh
pham



AFTER

MASS
167
AREA
249
HEIGHT
218
18-Dec-2023
10:16
linh
pham



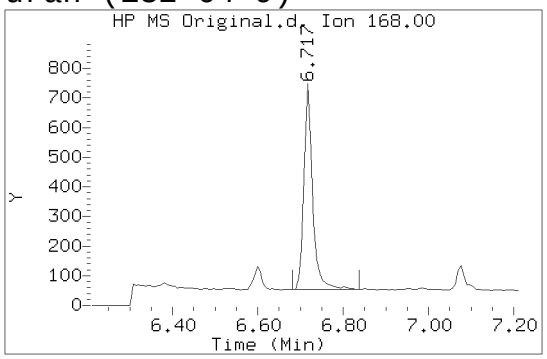
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Dibenzofuran (132-64-9)

Reason Code:

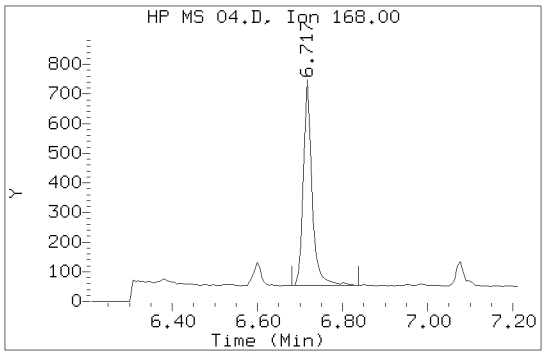
BEFORE

MASS
168
AREA
961
HEIGHT
694
18-Dec-2023
10:16
linh
pham



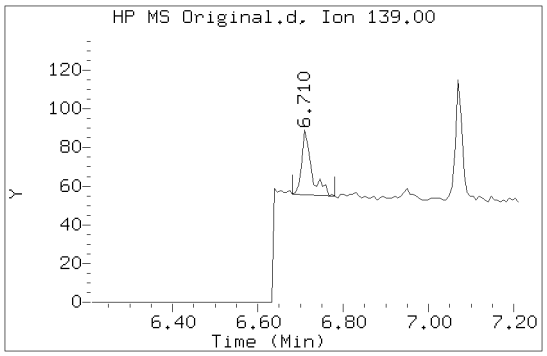
AFTER

MASS
168
AREA
961
HEIGHT
694
18-Dec-2023
10:16
linh
pham



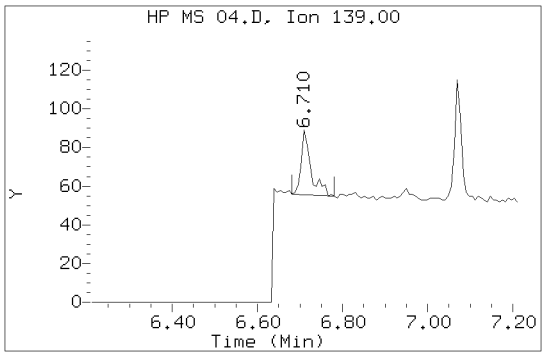
BEFORE

MASS
139
AREA
52
HEIGHT
33
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
52
HEIGHT
33
18-Dec-2023
10:16
linh
pham

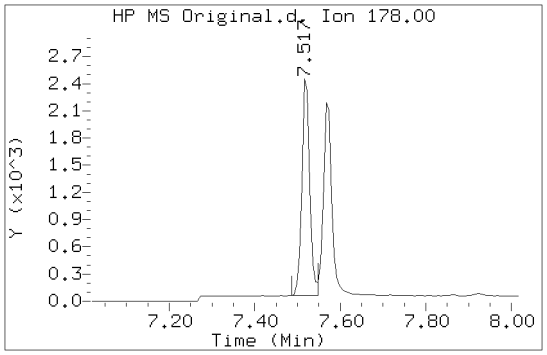


Phenanthrene (85-01-8)

Reason Code:

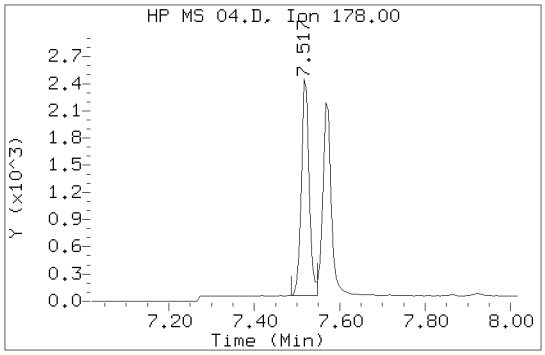
BEFORE

MASS
178
AREA
3022
HEIGHT
2389
18-Dec-2023
10:16
linh
pham



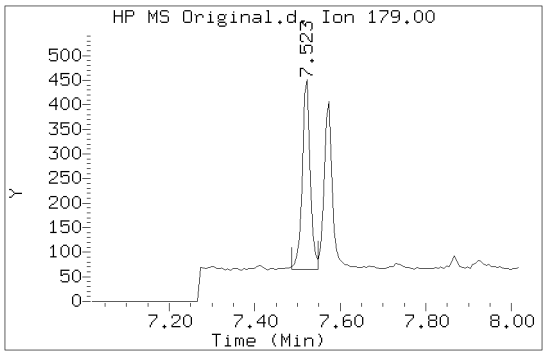
AFTER

MASS
178
AREA
3022
HEIGHT
2389
18-Dec-2023
10:16
linh
pham



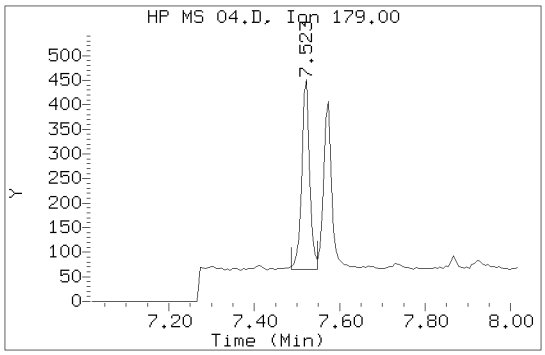
BEFORE

MASS
179
AREA
494
HEIGHT
386
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
494
HEIGHT
386
18-Dec-2023
10:16
linh
pham



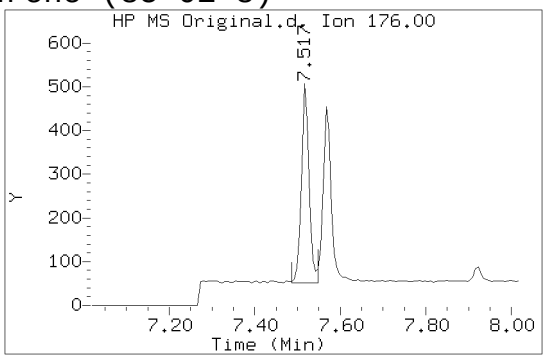
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Phenanthrene (85-01-8)

Reason Code:

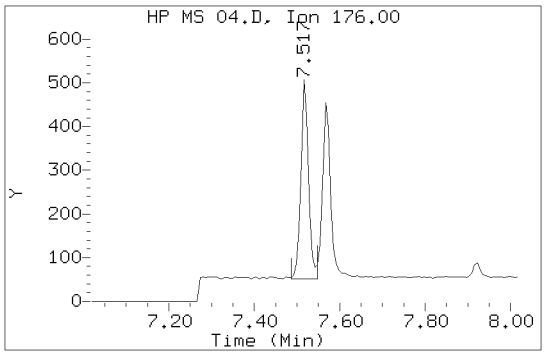
BEFORE

MASS
176
AREA
568
HEIGHT
456
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
568
HEIGHT
456
18-Dec-2023
10:16
linh
pham

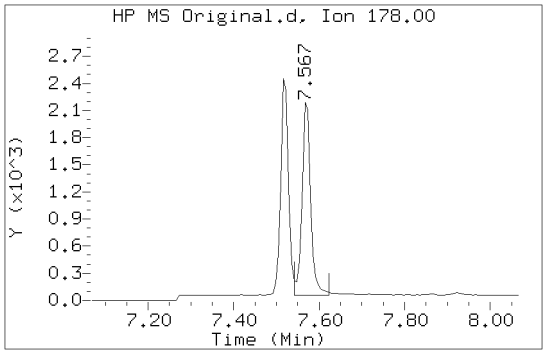


Anthracene (120-12-7)

Reason Code:

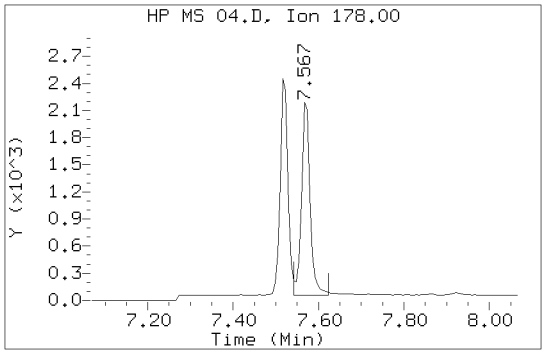
BEFORE

MASS
178
AREA
2993
HEIGHT
2136
18-Dec-2023
10:16
linh
pham



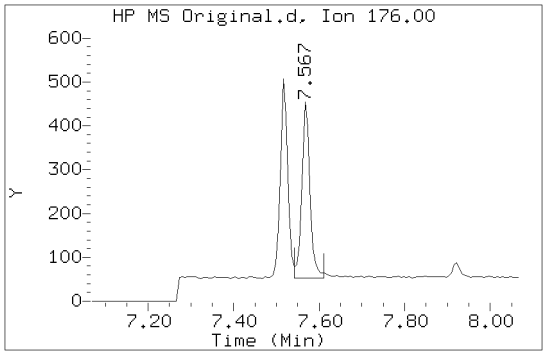
AFTER

MASS
178
AREA
2993
HEIGHT
2136
18-Dec-2023
10:16
linh
pham



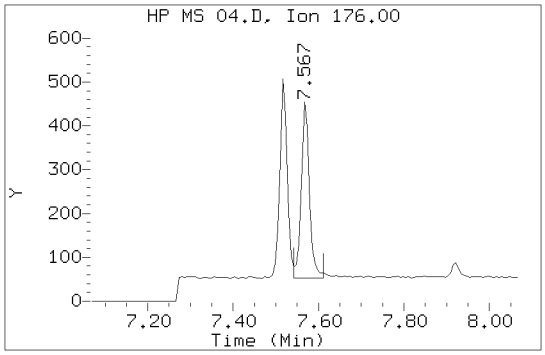
BEFORE

MASS
176
AREA
527
HEIGHT
401
18-Dec-2023
10:16
linh
pham



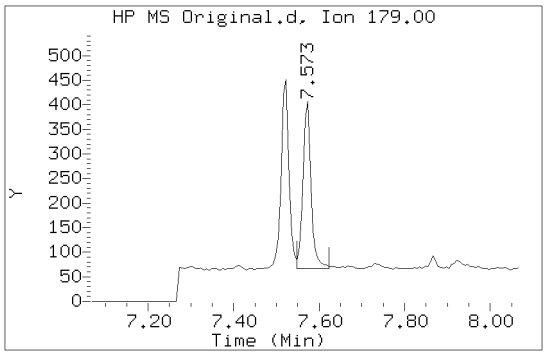
AFTER

MASS
176
AREA
527
HEIGHT
401
18-Dec-2023
10:16
linh
pham



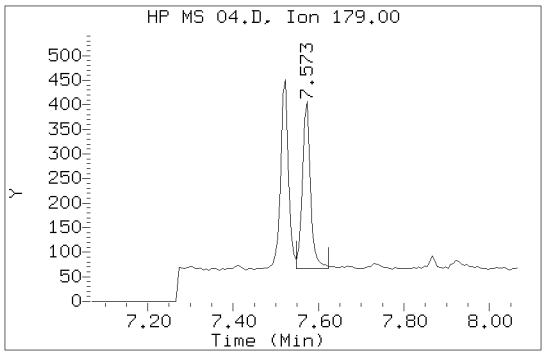
BEFORE

MASS
179
AREA
452
HEIGHT
341
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
452
HEIGHT
341
18-Dec-2023
10:16
linh
pham

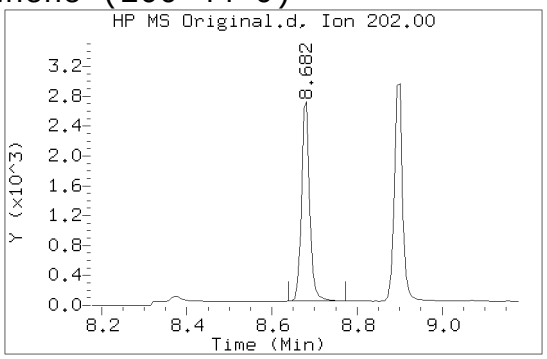


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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

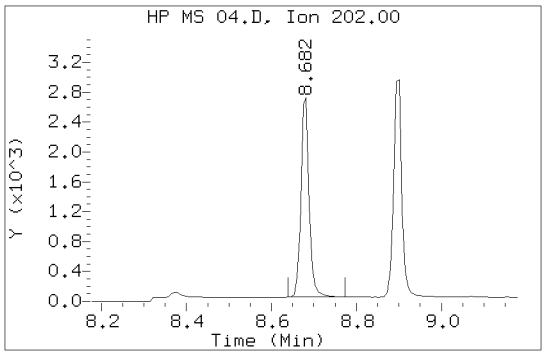
Fluoranthene (206-44-0)

Reason Code:

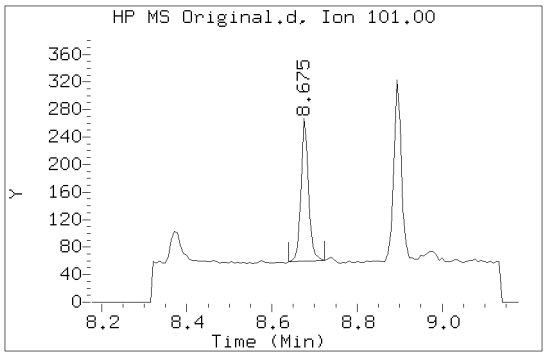
BEFORE
MASS
202
AREA
3567
HEIGHT
2671
18-Dec-2023
10:16
linh
pham



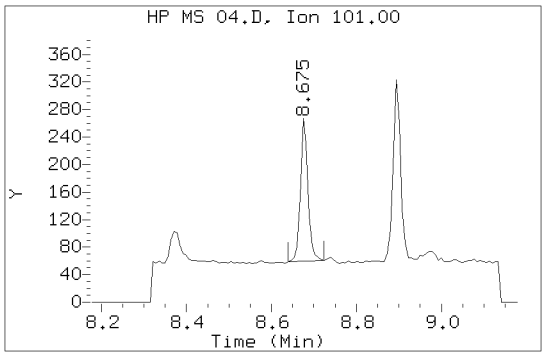
AFTER
MASS
202
AREA
3567
HEIGHT
2671
18-Dec-2023
10:16
linh
pham



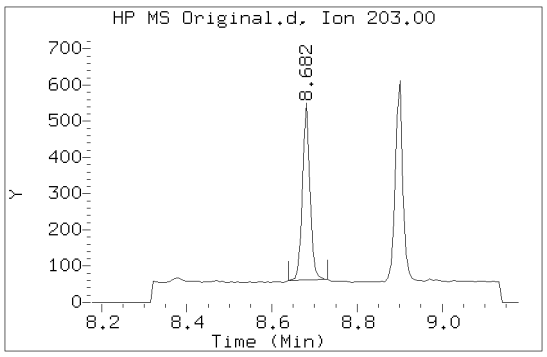
BEFORE
MASS
101
AREA
253
HEIGHT
207
18-Dec-2023
10:16
linh
pham



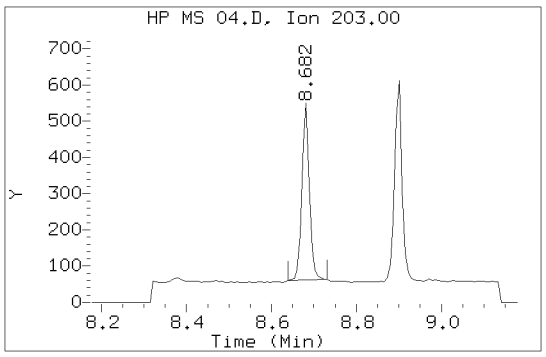
AFTER
MASS
101
AREA
253
HEIGHT
207
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
203
AREA
598
HEIGHT
489
18-Dec-2023
10:16
linh
pham



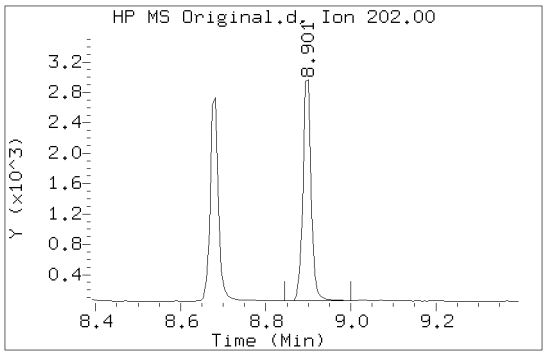
AFTER
MASS
203
AREA
598
HEIGHT
489
18-Dec-2023
10:16
linh
pham



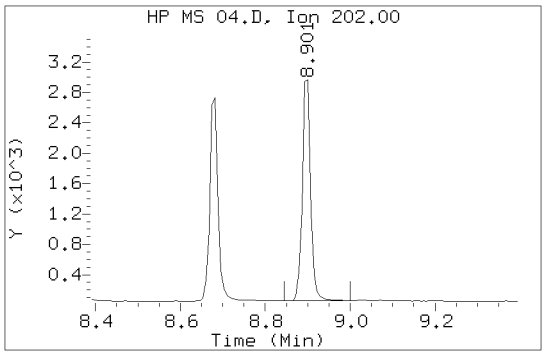
Pyrene (129-00-0)

Reason Code:

BEFORE
MASS
202
AREA
3927
HEIGHT
2910
18-Dec-2023
10:16
linh
pham



AFTER
MASS
202
AREA
3927
HEIGHT
2910
18-Dec-2023
10:16
linh
pham



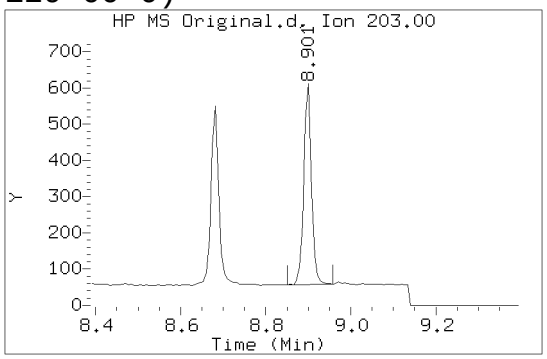
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Pyrene (129-00-0)

Reason Code:

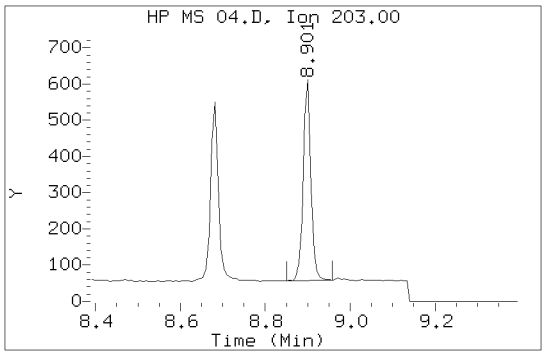
BEFORE

MASS
203
AREA
683
HEIGHT
554
18-Dec-2023
10:16
linh
pham



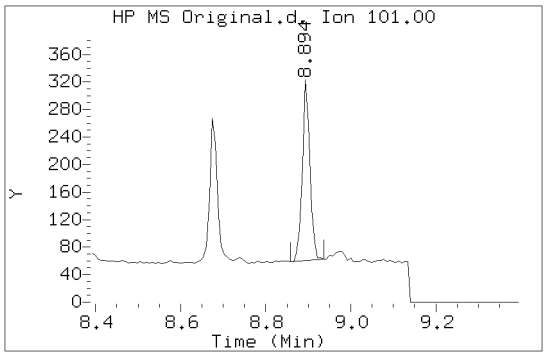
AFTER

MASS
203
AREA
683
HEIGHT
554
18-Dec-2023
10:16
linh
pham



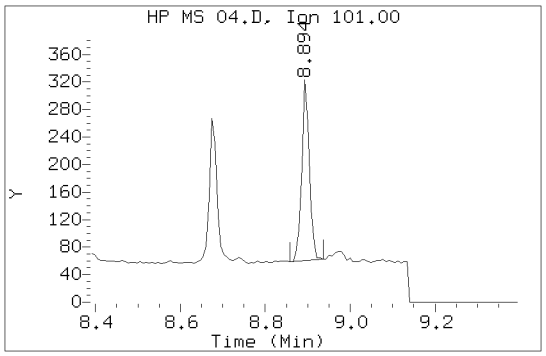
BEFORE

MASS
101
AREA
319
HEIGHT
262
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
319
HEIGHT
262
18-Dec-2023
10:16
linh
pham

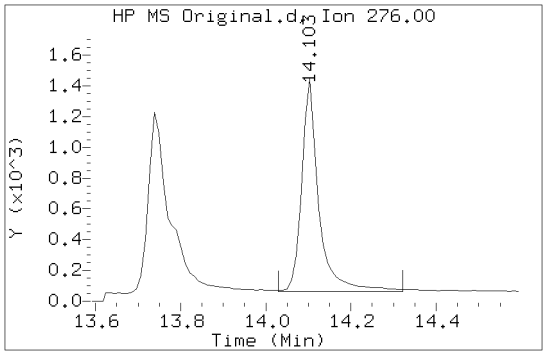


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

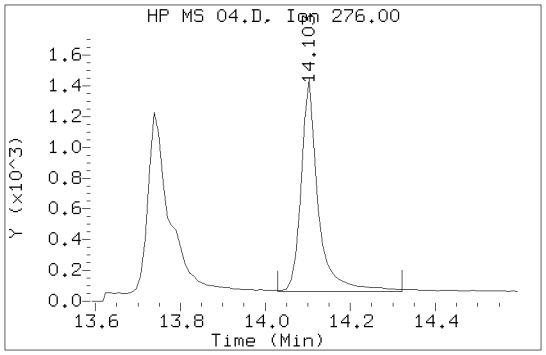
BEFORE

MASS
276
AREA
3852
HEIGHT
1382
18-Dec-2023
10:16
linh
pham



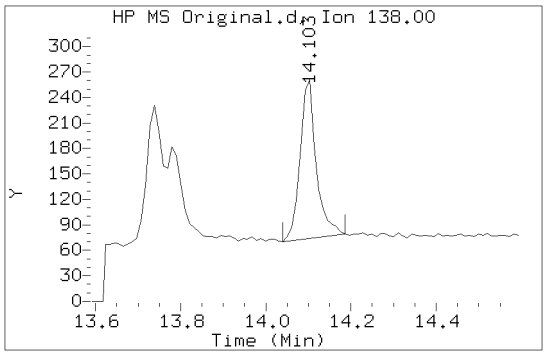
AFTER

MASS
276
AREA
3852
HEIGHT
1382
18-Dec-2023
10:16
linh
pham



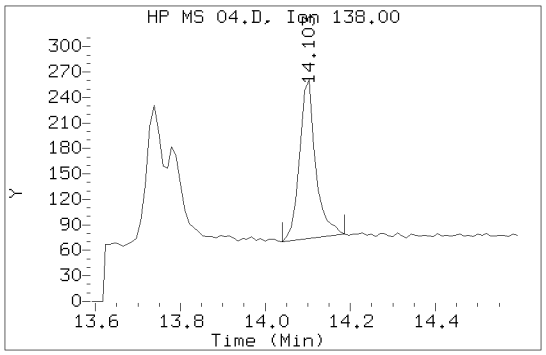
BEFORE

MASS
138
AREA
488
HEIGHT
187
18-Dec-2023
10:16
linh
pham



AFTER

MASS
138
AREA
488
HEIGHT
187
18-Dec-2023
10:16
linh
pham



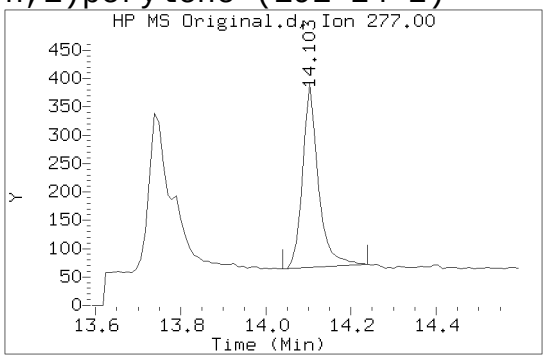
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\04.D
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

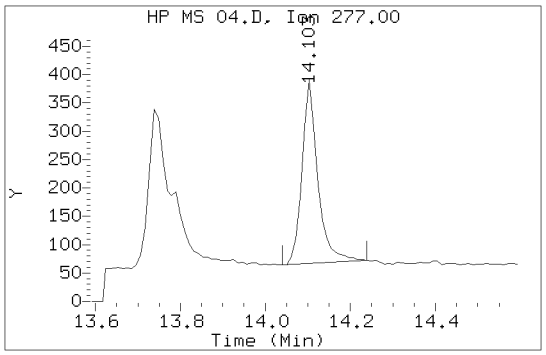
BEFORE

MASS
277
AREA
820
HEIGHT
323
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
820
HEIGHT
323
18-Dec-2023
10:16
linh
pham

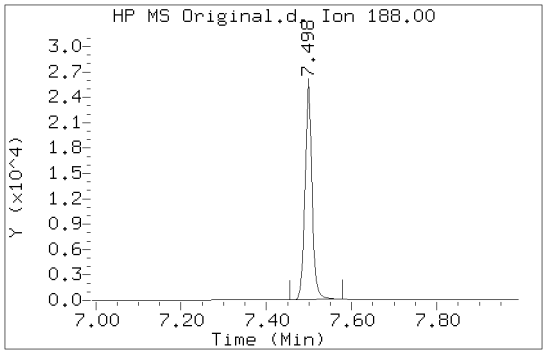


Phenanthrene-d10 (1517-22-2)

Reason Code:

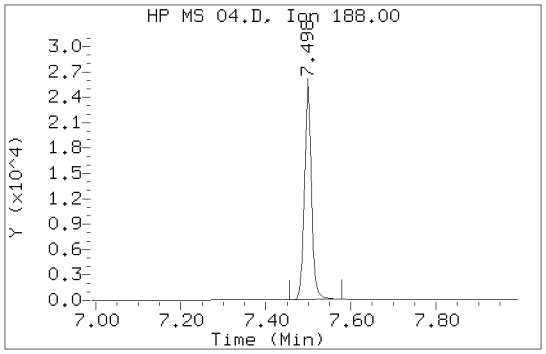
BEFORE

MASS
188
AREA
28419
HEIGHT
26124
18-Dec-2023
10:16
linh
pham



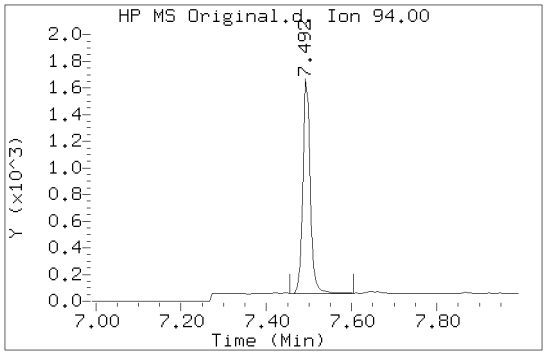
AFTER

MASS
188
AREA
28419
HEIGHT
26124
18-Dec-2023
10:16
linh
pham



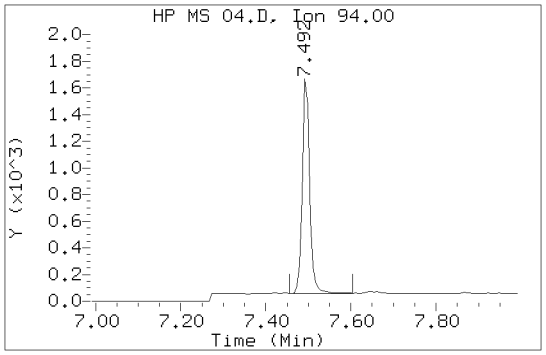
BEFORE

MASS
94
AREA
1865
HEIGHT
1608
18-Dec-2023
10:16
linh
pham



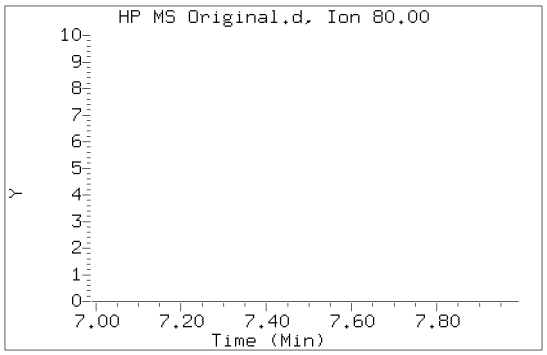
AFTER

MASS
94
AREA
1865
HEIGHT
1608
18-Dec-2023
10:16
linh
pham



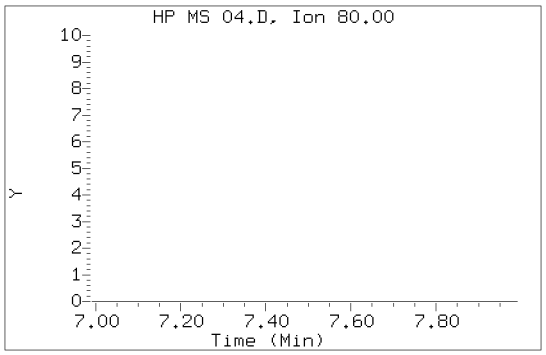
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

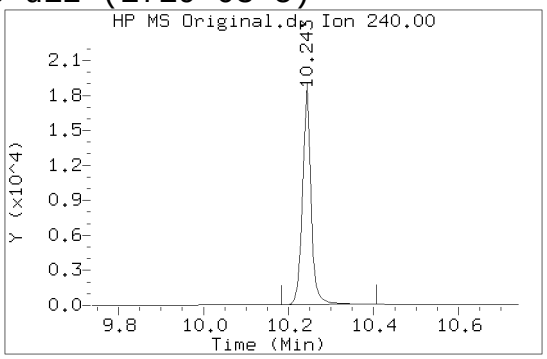


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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

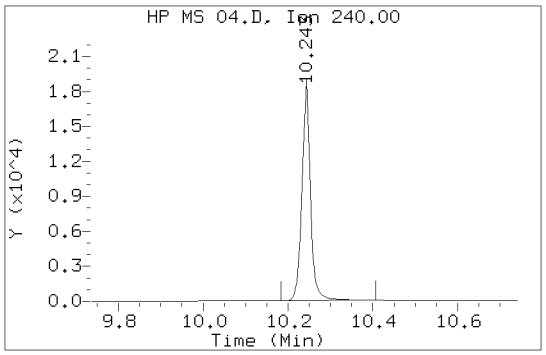
Chrysene-d12 (1719-03-5)

Reason Code:

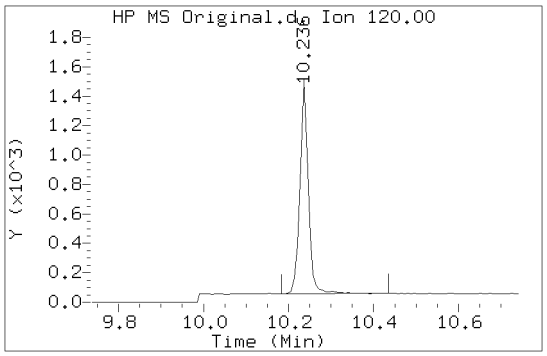
BEFORE
MASS
240
AREA
26412
HEIGHT
18940
18-Dec-2023
10:16
linh
pham



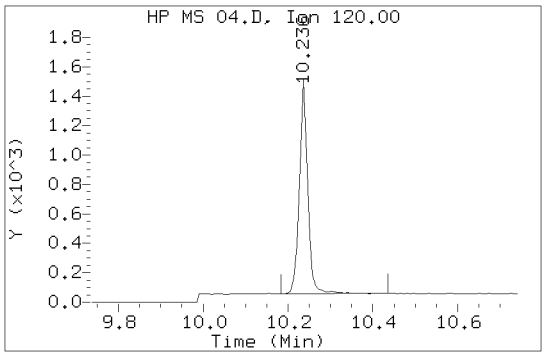
AFTER
MASS
240
AREA
26412
HEIGHT
18940
18-Dec-2023
10:16
linh
pham



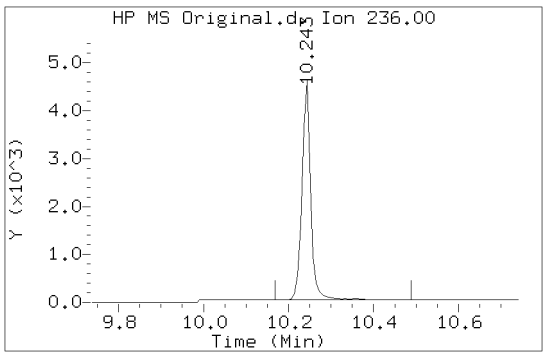
BEFORE
MASS
120
AREA
1988
HEIGHT
1454
18-Dec-2023
10:16
linh
pham



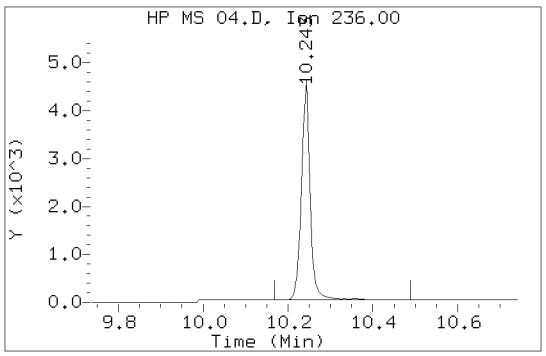
AFTER
MASS
120
AREA
1988
HEIGHT
1454
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
236
AREA
6570
HEIGHT
4574
18-Dec-2023
10:16
linh
pham



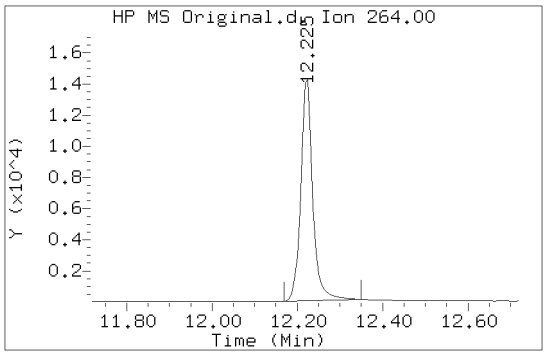
AFTER
MASS
236
AREA
6570
HEIGHT
4574
18-Dec-2023
10:16
linh
pham



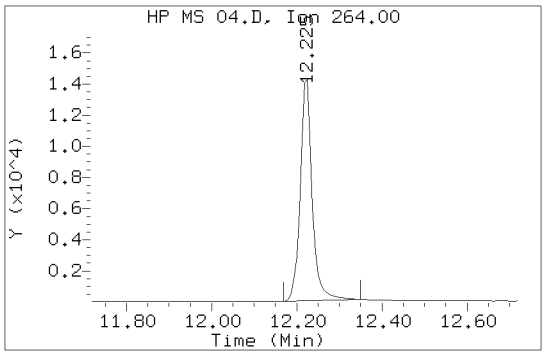
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
264
AREA
28037
HEIGHT
14192
18-Dec-2023
10:16
linh
pham



AFTER
MASS
264
AREA
28037
HEIGHT
14192
18-Dec-2023
10:16
linh
pham



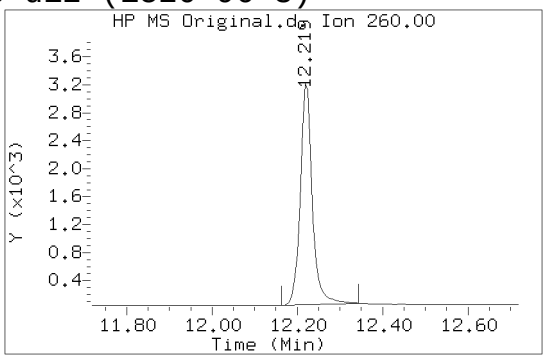
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Perylene-d12 (1520-96-3)

Reason Code:

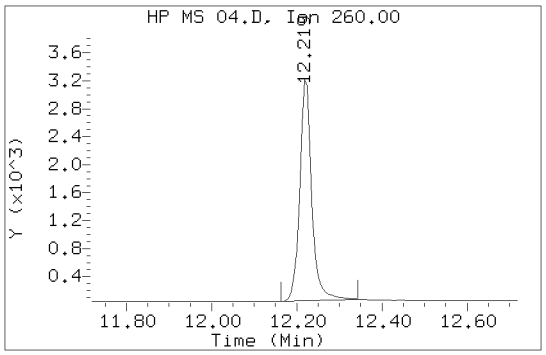
BEFORE

MASS
260
AREA
6252
HEIGHT
3158
18-Dec-2023
10:16
linh
pham



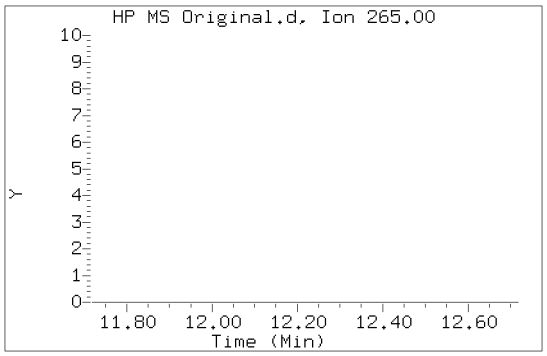
AFTER

MASS
260
AREA
6252
HEIGHT
3158
18-Dec-2023
10:16
linh
pham



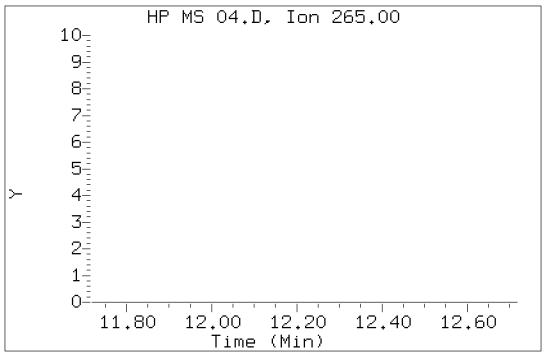
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

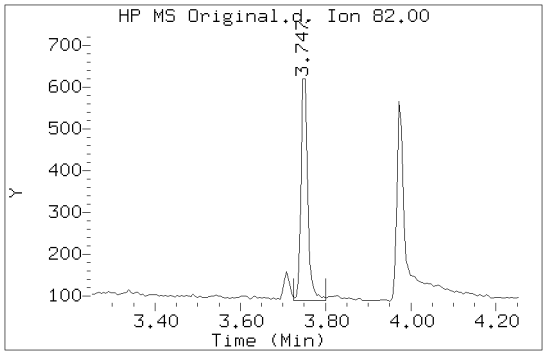


Nitrobenzene-d5 (4165-60-0)

Reason Code:

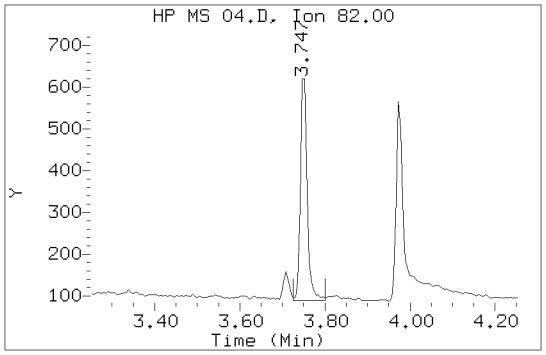
BEFORE

MASS
82
AREA
588
HEIGHT
532
18-Dec-2023
10:16
linh
pham



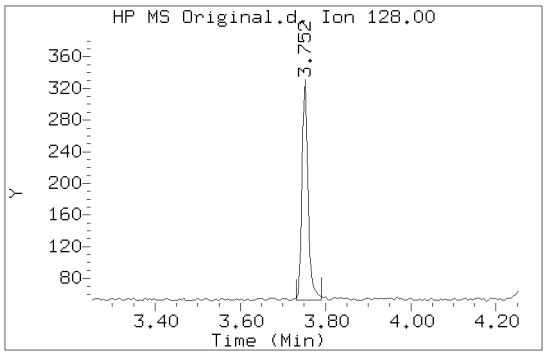
AFTER

MASS
82
AREA
588
HEIGHT
532
18-Dec-2023
10:16
linh
pham



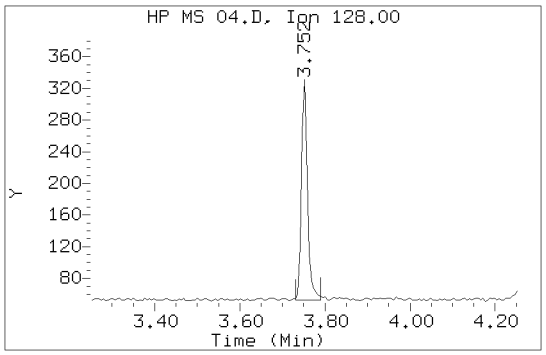
BEFORE

MASS
128
AREA
268
HEIGHT
278
18-Dec-2023
10:16
linh
pham



AFTER

MASS
128
AREA
268
HEIGHT
278
18-Dec-2023
10:16
linh
pham



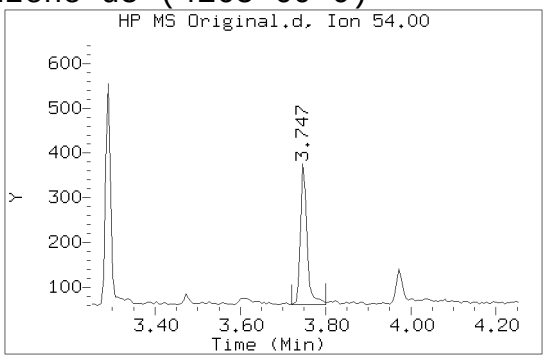
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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Nitrobenzene-d5 (4165-60-0)

Reason Code:

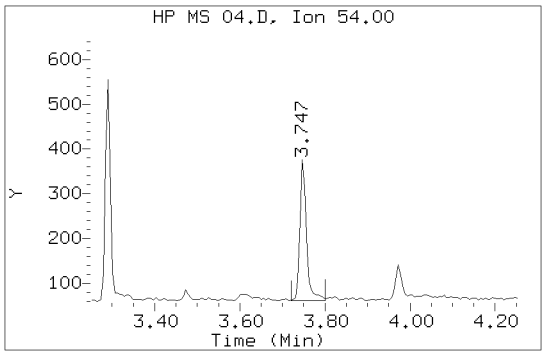
BEFORE

MASS
54
AREA
332
HEIGHT
314
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
332
HEIGHT
314
18-Dec-2023
10:16
linh
pham

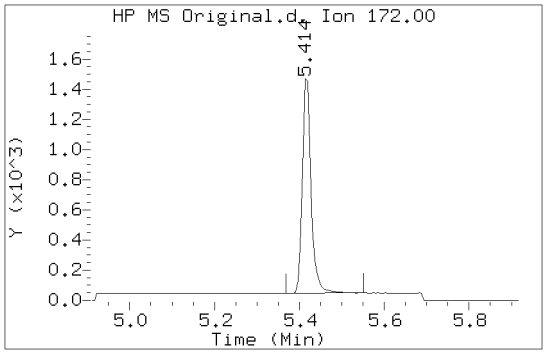


2-Fluorobiphenyl (321-60-8)

Reason Code:

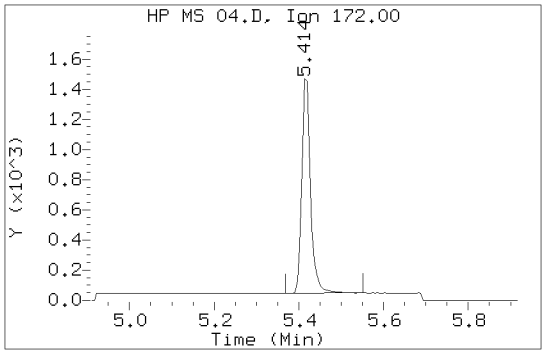
BEFORE

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2011
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1422
18-Dec-2023
10:16
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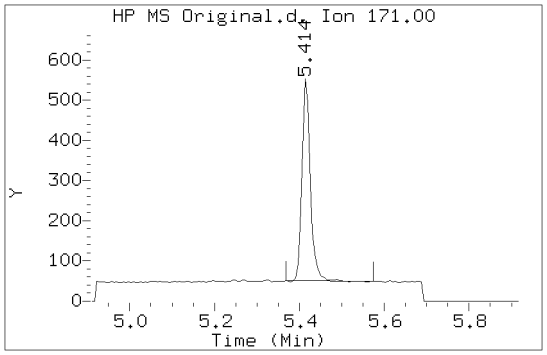
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10:16
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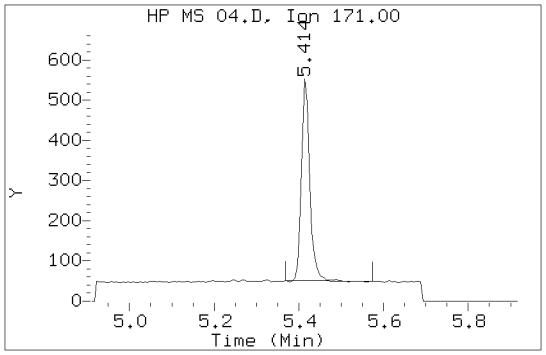
BEFORE

MASS
171
AREA
673
HEIGHT
502
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
673
HEIGHT
502
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Lab Smp Id: PAHSIM-0.025 Client Smp ID: PAHSIM-0.025
Inj Date : 12-DEC-2023 14:18
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.025
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 13:58 Cal File: 04.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	20835	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.747	3.747	(0.853)	1606	0.02500	0.02795(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	12667	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	5723	0.02500	0.02837(M)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	26652	0.10000	(M)
* 182 Chrysene-d12	240	10.235	10.235	(1.000)	24444	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.070	9.070	(0.886)	6999	0.02500	0.02820(M)
* 198 Perylene-d12	264	12.218	12.218	(1.000)	25730	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	6558	0.02500	0.02869(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	4276	0.02500	0.02797(M)
62 1-Methylnaphthalene	142	5.151	5.151	(1.173)	3948	0.02500	0.02768(M)
83 Acenaphthylene	152	5.910	5.910	(0.976)	6461	0.02500	0.02790(M)
88 Acenaphthene	154	6.080	6.080	(1.004)	4156	0.02500	0.02846(M)
98 Fluorene	166	6.588	6.588	(1.087)	5027	0.02500	0.02800
92 Dibenzofuran	168	6.717	6.717	(1.109)	2602	0.02500	0.02748(M)
128 Phenanthrene	178	7.517	7.517	(1.002)	8192	0.02500	0.02808(M)
130 Anthracene	178	7.566	7.566	(1.009)	8121	0.02500	0.02794(M)
149 Fluoranthene	202	8.674	8.674	(1.157)	9509	0.02500	0.02740(M)
155 Pyrene	202	8.893	8.893	(0.869)	9943	0.02500	0.02798(M)

181 Benzo(a)Anthracene	228	10.221	10.221 (0.999)	9234	0.02500	0.02786(M)
183 Chrysene	228	10.265	10.265 (1.003)	10622	0.02500	0.02875(M)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
192 Benzo(b)fluoranthene	252	11.669	11.669	(0.955)	9331	0.02500	0.02921
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.959)	10238	0.02500	0.02649(M)
197 Benzo(a)pyrene	252	12.131	12.131	(0.993)	8585	0.02500	0.02773(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	10312	0.02500	0.02784(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.129)	8280	0.02500	0.02691(QM)
212 Benzo(g,h,i)perylene	276	14.092	14.092	(1.153)	8760	0.02500	0.02648(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D

Date : 12-DEC-2023 14:18

Client ID: PAHSIM-0.025

Instrument: SV6.i

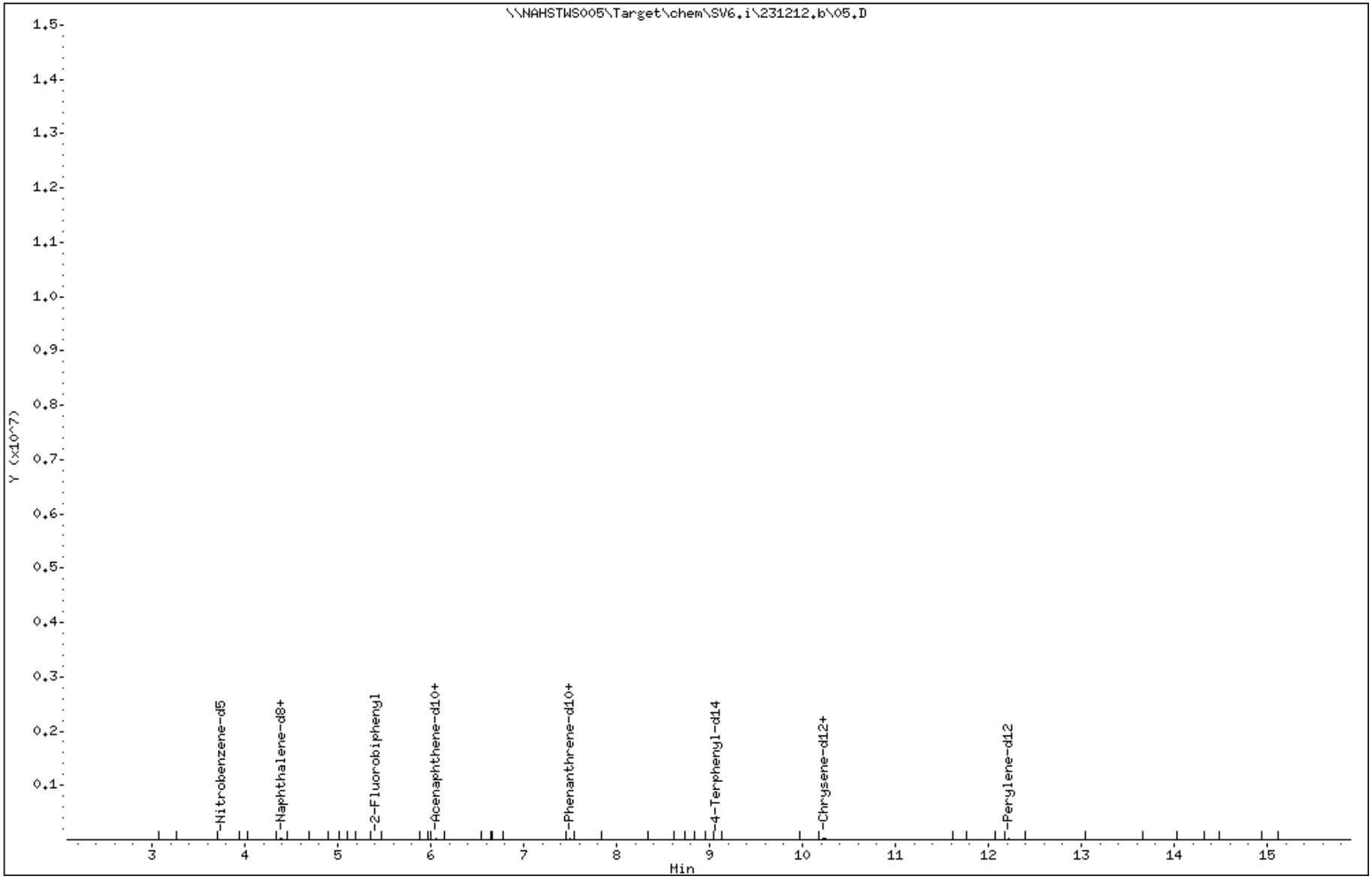
Sample Info: PAHSIM-0.025

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

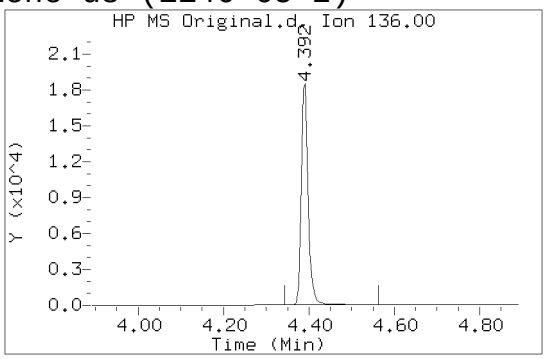


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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Naphthalene-d8 (1146-65-2)

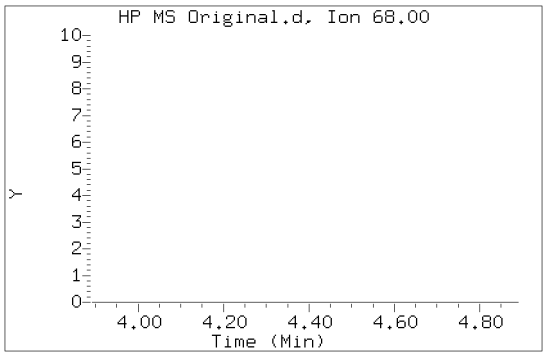
BEFORE

MASS
136
AREA
20835
HEIGHT
18471
18-Dec-2023
10:16
linh
pham



BEFORE

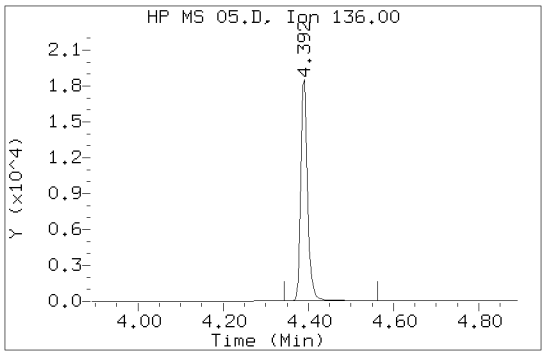
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HEIGHT
0
18-Dec-2023
10:16
linh
pham



Reason Code:

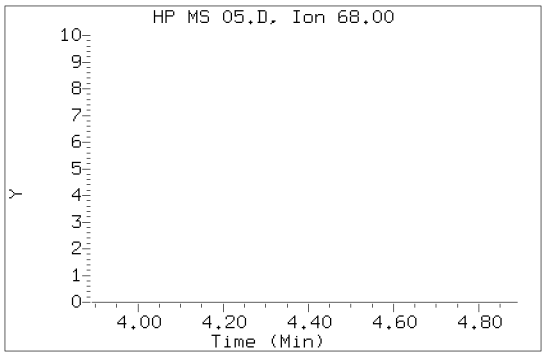
AFTER

MASS
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AREA
20835
HEIGHT
18471
18-Dec-2023
10:16
linh
pham



AFTER

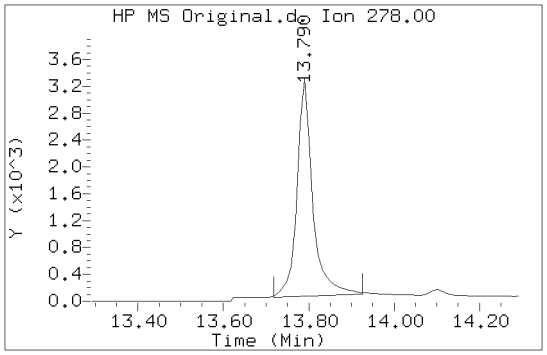
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AREA
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HEIGHT
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18-Dec-2023
10:16
linh
pham



Dibenzo(a,h)anthracene (53-70-3)

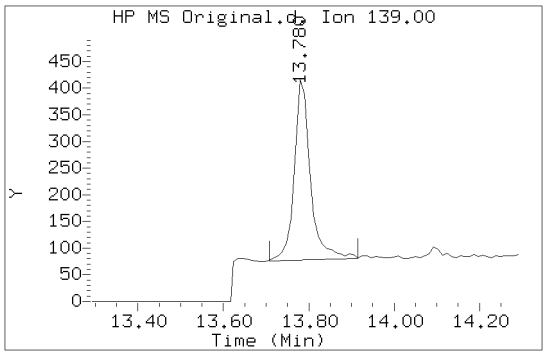
BEFORE

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8280
HEIGHT
3237
18-Dec-2023
10:16
linh
pham



BEFORE

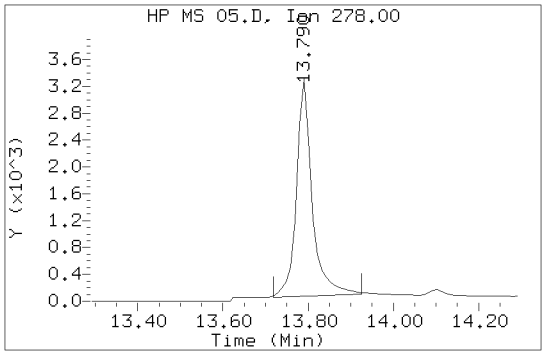
MASS
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AREA
892
HEIGHT
338
18-Dec-2023
10:16
linh
pham



Reason Code:

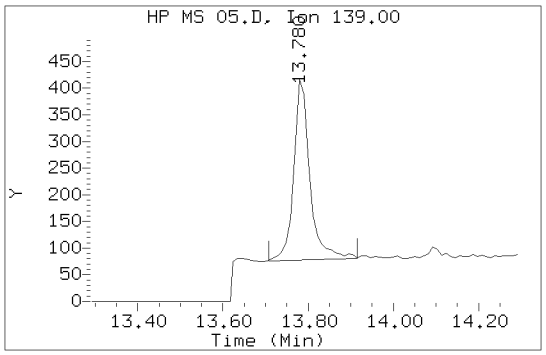
AFTER

MASS
278
AREA
8280
HEIGHT
3237
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
892
HEIGHT
338
18-Dec-2023
10:16
linh
pham



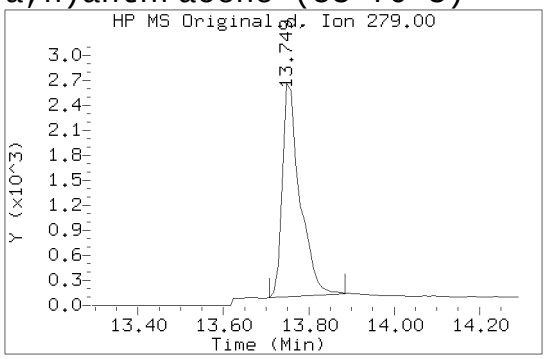
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

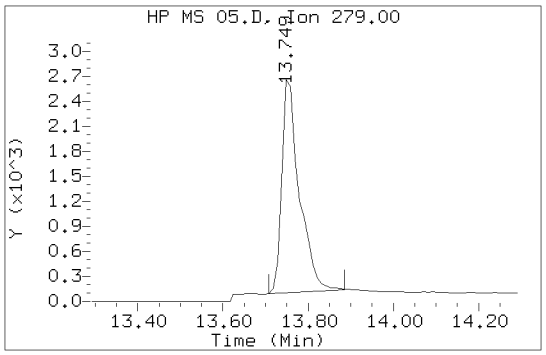
BEFORE

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AREA
7371
HEIGHT
2561
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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HEIGHT
2561
18-Dec-2023
10:16
linh
pham

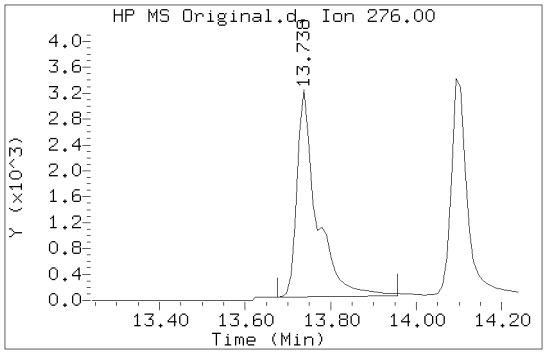


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

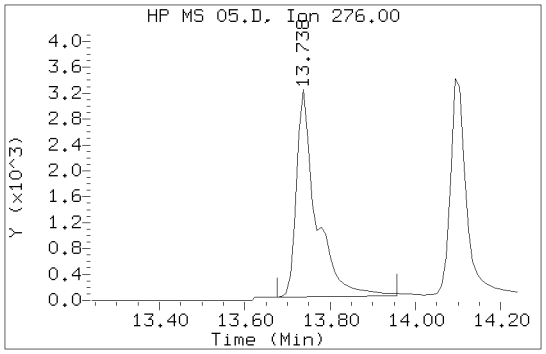
BEFORE

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AREA
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HEIGHT
3199
18-Dec-2023
10:16
linh
pham



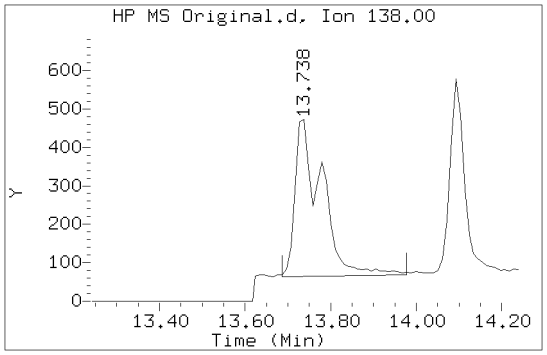
AFTER

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HEIGHT
3199
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pham



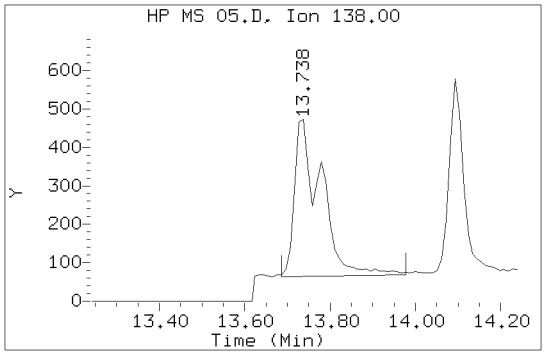
BEFORE

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AREA
1777
HEIGHT
408
18-Dec-2023
10:16
linh
pham



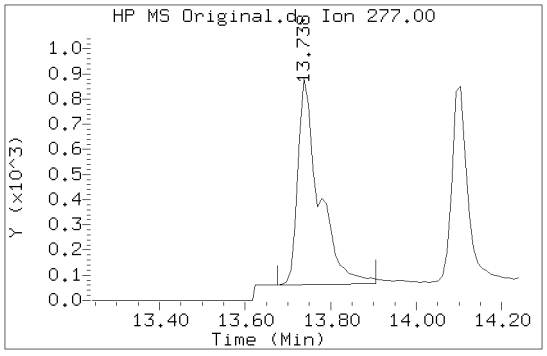
AFTER

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18-Dec-2023
10:16
linh
pham



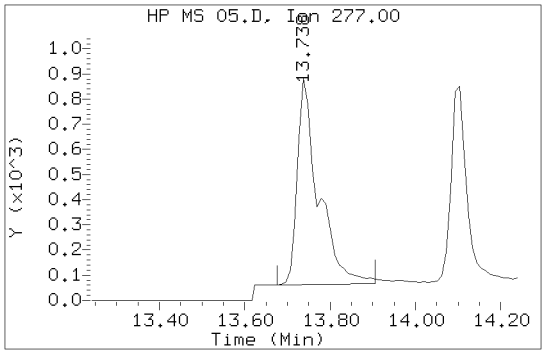
BEFORE

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AREA
2831
HEIGHT
817
18-Dec-2023
10:16
linh
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AFTER

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817
18-Dec-2023
10:16
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pham

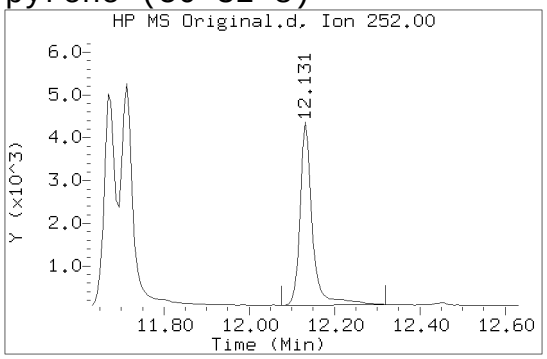


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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

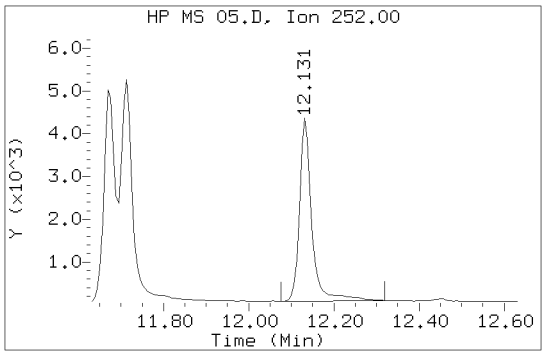
Benzo(a)pyrene (50-32-8)

Reason Code:

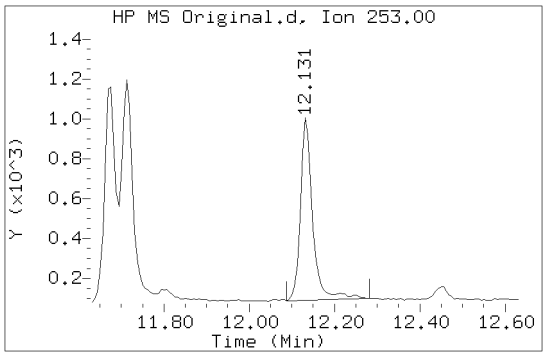
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MASS
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AREA
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HEIGHT
4276
18-Dec-2023
10:16
linh
pham



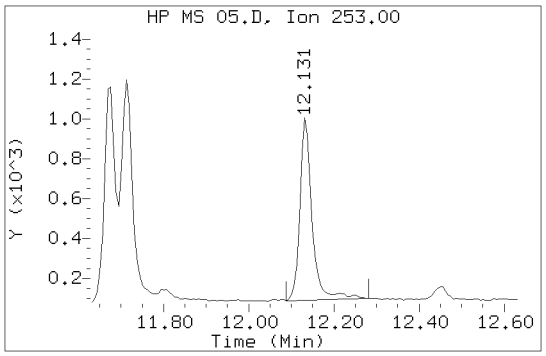
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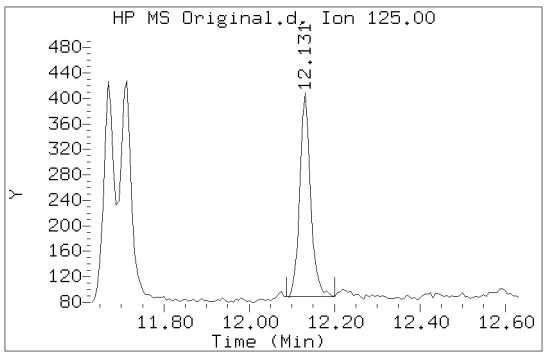
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915
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10:16
linh
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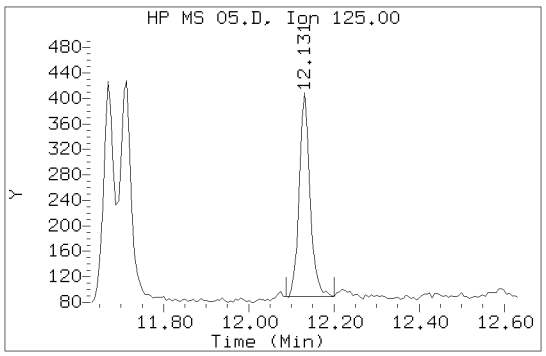
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BEFORE
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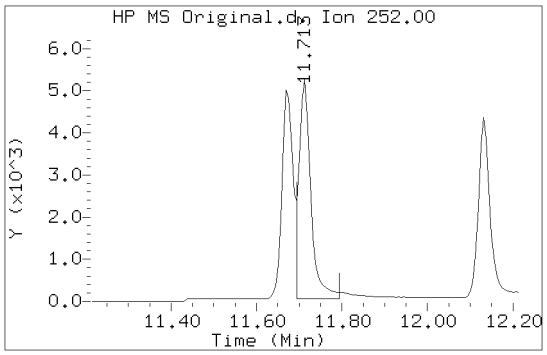
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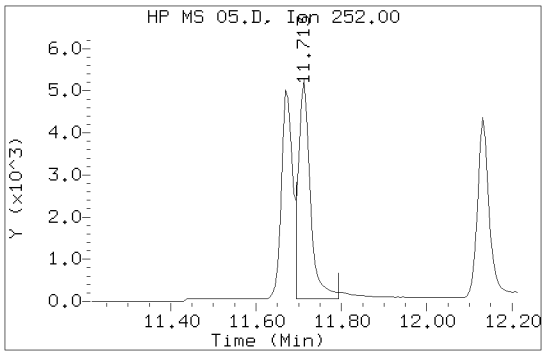
Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE
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AREA
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HEIGHT
5202
18-Dec-2023
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linh
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AFTER
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HEIGHT
5202
18-Dec-2023
10:16
linh
pham



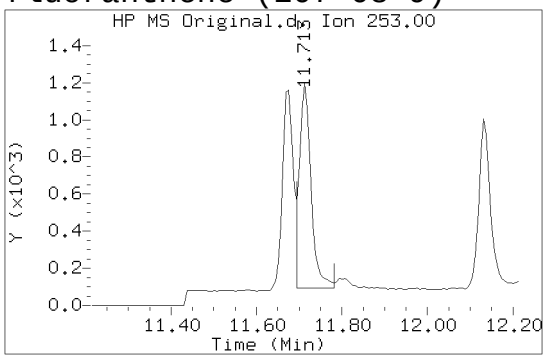
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Benzo(k)fluoranthene (207-08-9)

Reason Code:

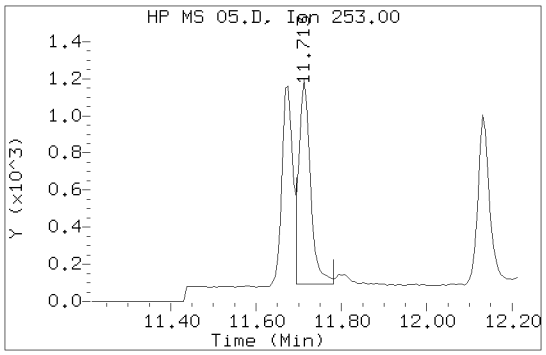
BEFORE

MASS
253
AREA
2145
HEIGHT
1103
18-Dec-2023
10:16
linh
pham



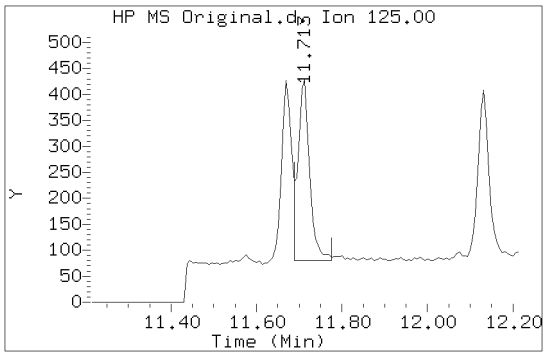
AFTER

MASS
253
AREA
2145
HEIGHT
1103
18-Dec-2023
10:16
linh
pham



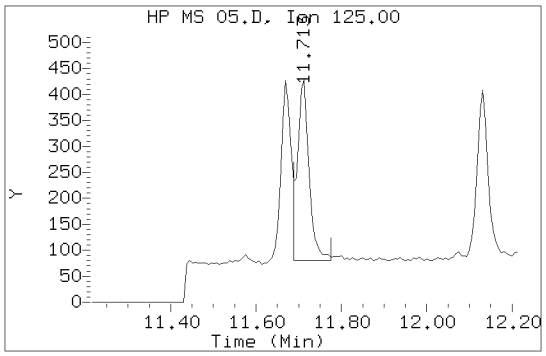
BEFORE

MASS
125
AREA
691
HEIGHT
348
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
691
HEIGHT
348
18-Dec-2023
10:16
linh
pham

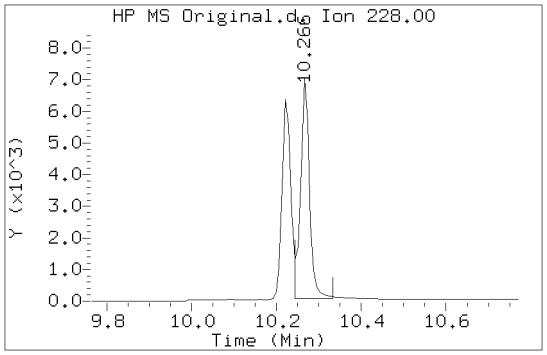


Chrysene (218-01-9)

Reason Code:

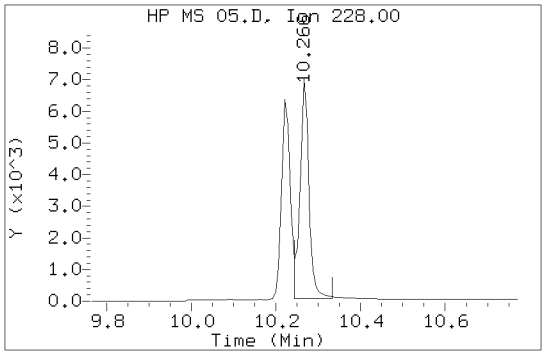
BEFORE

MASS
228
AREA
10622
HEIGHT
6953
18-Dec-2023
10:16
linh
pham



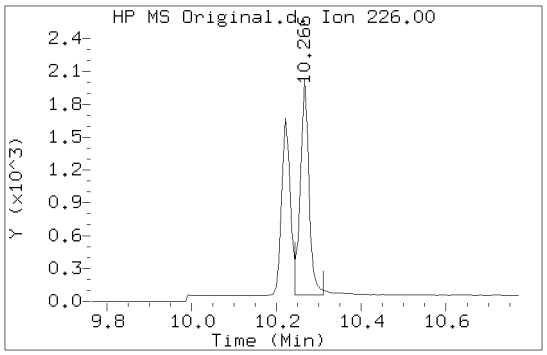
AFTER

MASS
228
AREA
10622
HEIGHT
6953
18-Dec-2023
10:16
linh
pham



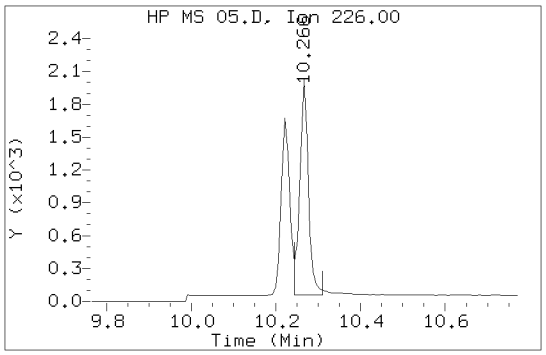
BEFORE

MASS
226
AREA
2863
HEIGHT
1964
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
2863
HEIGHT
1964
18-Dec-2023
10:16
linh
pham



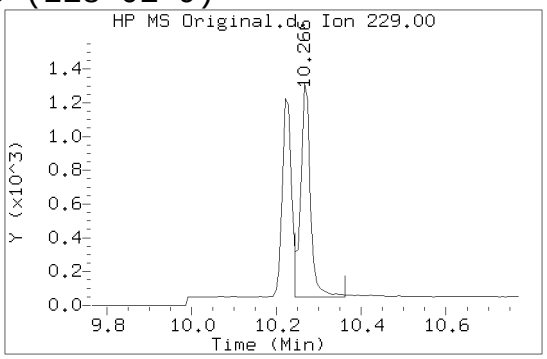
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Chrysene (218-01-9)

Reason Code:

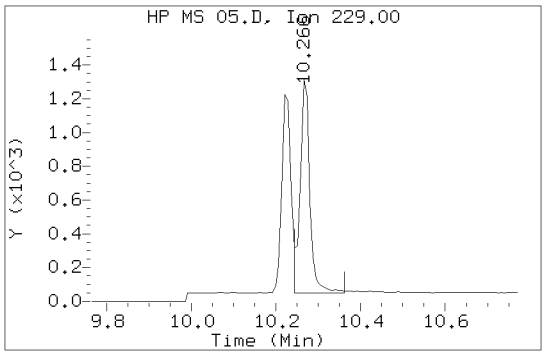
BEFORE

MASS
229
AREA
2102
HEIGHT
1262
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
2102
HEIGHT
1262
18-Dec-2023
10:16
linh
pham

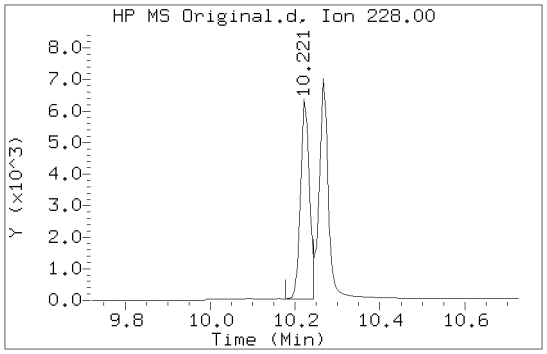


Benzo(a)Anthracene (56-55-3)

Reason Code:

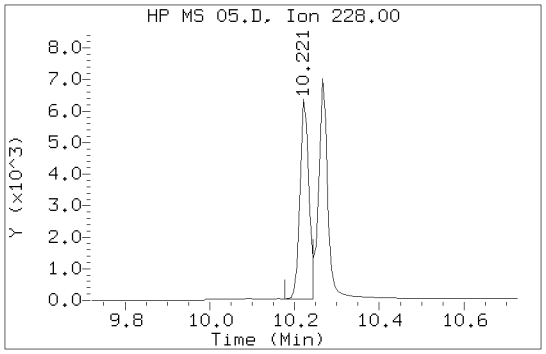
BEFORE

MASS
228
AREA
9234
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



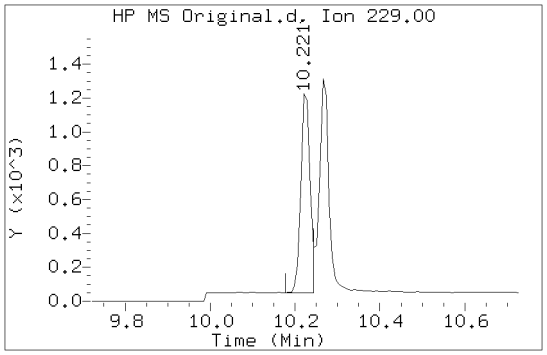
AFTER

MASS
228
AREA
9234
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



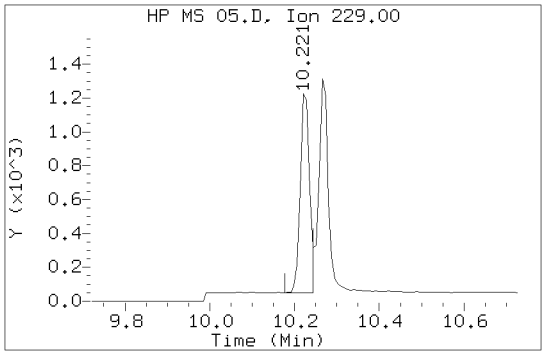
BEFORE

MASS
229
AREA
1784
HEIGHT
1176
18-Dec-2023
10:16
linh
pham



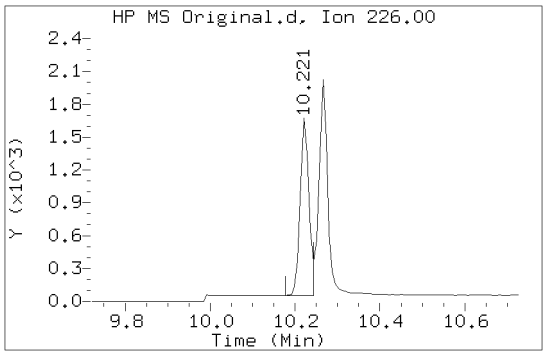
AFTER

MASS
229
AREA
1784
HEIGHT
1176
18-Dec-2023
10:16
linh
pham



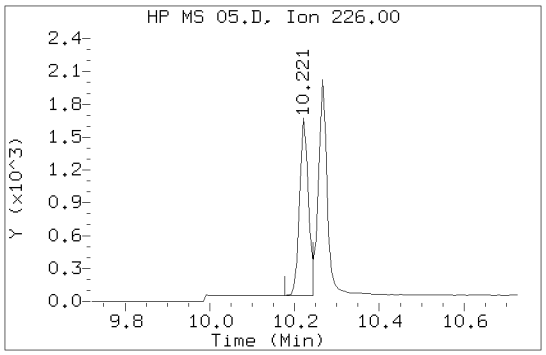
BEFORE

MASS
226
AREA
2346
HEIGHT
1623
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
2346
HEIGHT
1623
18-Dec-2023
10:16
linh
pham



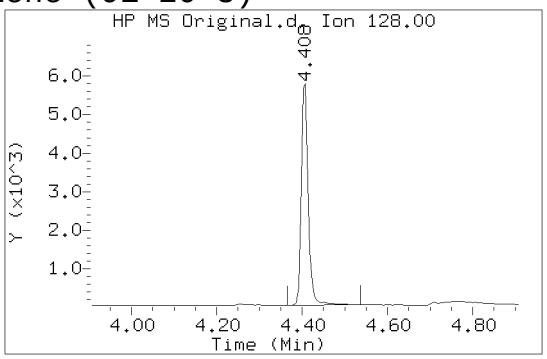
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Naphthalene (91-20-3)

Reason Code:

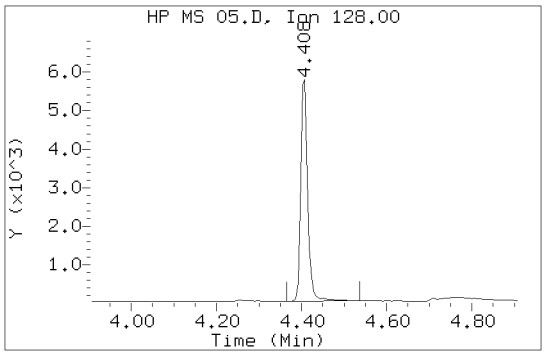
BEFORE

MASS
128
AREA
6558
HEIGHT
5742
18-Dec-2023
10:16
linh
pham



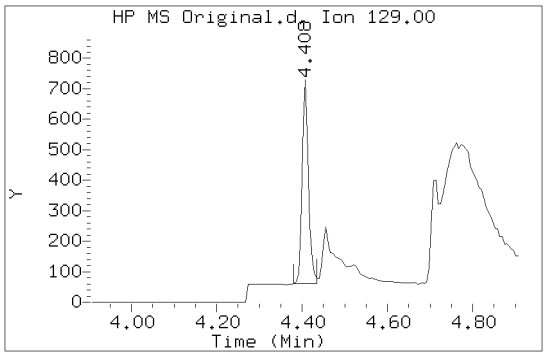
AFTER

MASS
128
AREA
6558
HEIGHT
5742
18-Dec-2023
10:16
linh
pham



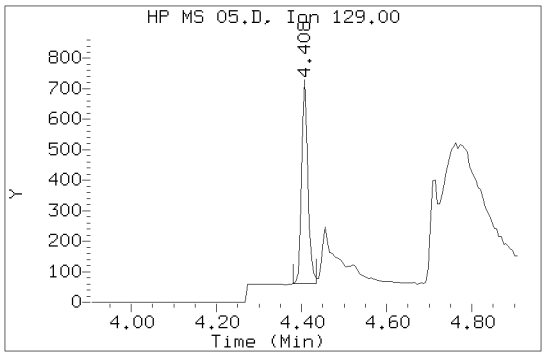
BEFORE

MASS
129
AREA
698
HEIGHT
668
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
698
HEIGHT
668
18-Dec-2023
10:16
linh
pham

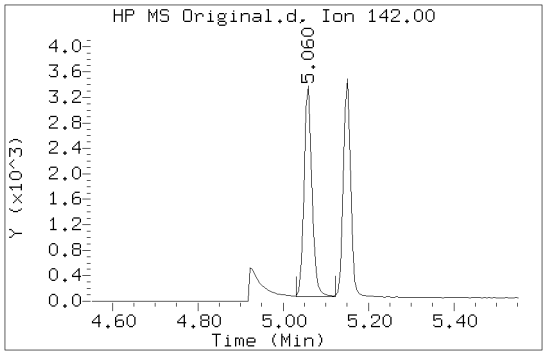


2-Methylnaphthalene (91-57-6)

Reason Code:

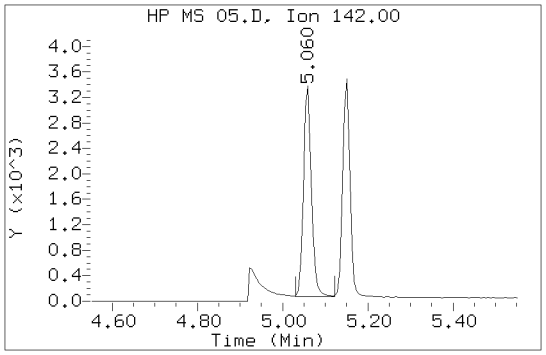
BEFORE

MASS
142
AREA
4276
HEIGHT
3311
18-Dec-2023
10:16
linh
pham



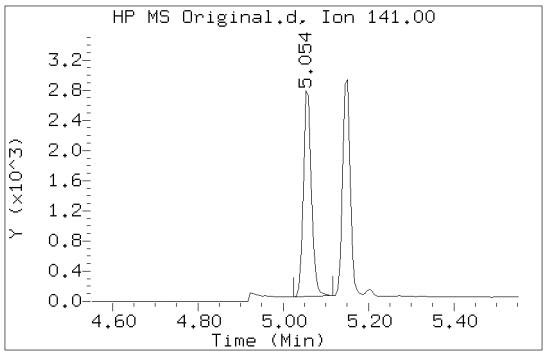
AFTER

MASS
142
AREA
4276
HEIGHT
3311
18-Dec-2023
10:16
linh
pham



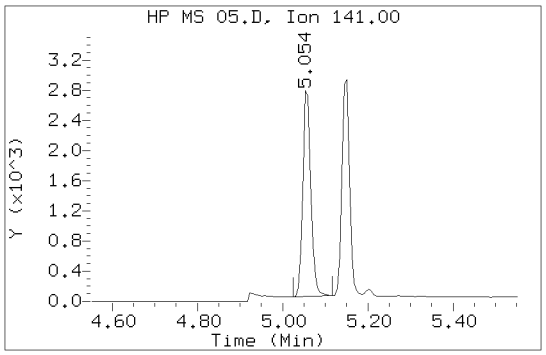
BEFORE

MASS
141
AREA
3595
HEIGHT
2730
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
3595
HEIGHT
2730
18-Dec-2023
10:16
linh
pham



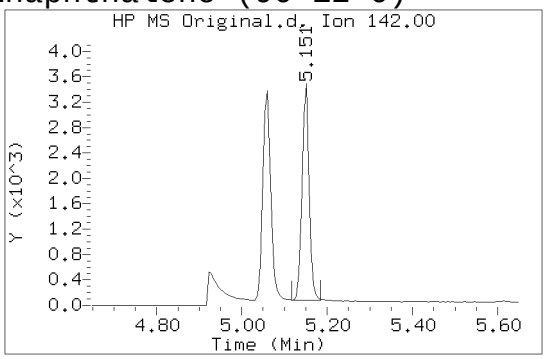
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

1-Methylnaphthalene (90-12-0)

Reason Code:

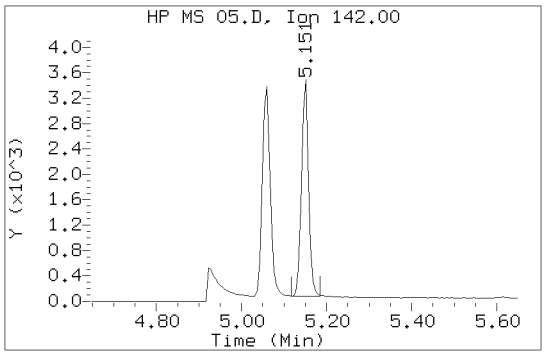
BEFORE

MASS
142
AREA
3948
HEIGHT
3408
18-Dec-2023
10:16
linh
pham



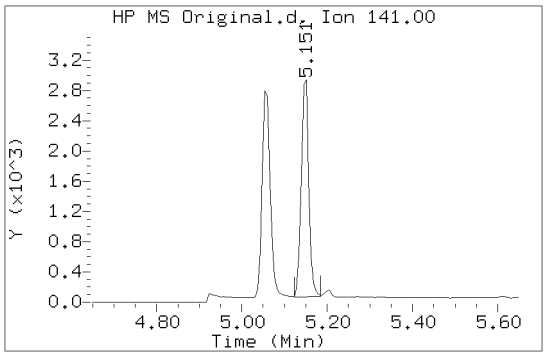
AFTER

MASS
142
AREA
3948
HEIGHT
3408
18-Dec-2023
10:16
linh
pham



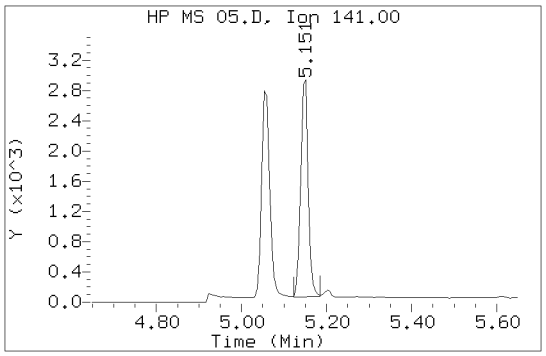
BEFORE

MASS
141
AREA
3545
HEIGHT
2870
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
3545
HEIGHT
2870
18-Dec-2023
10:16
linh
pham

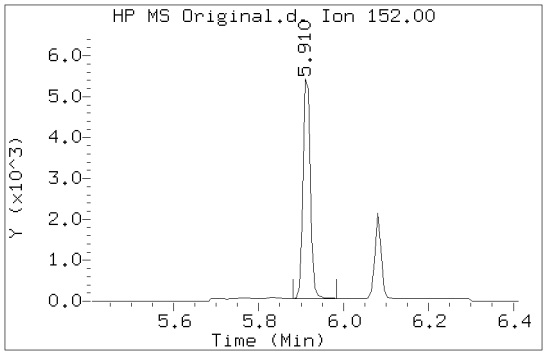


Acenaphthylene (208-96-8)

Reason Code:

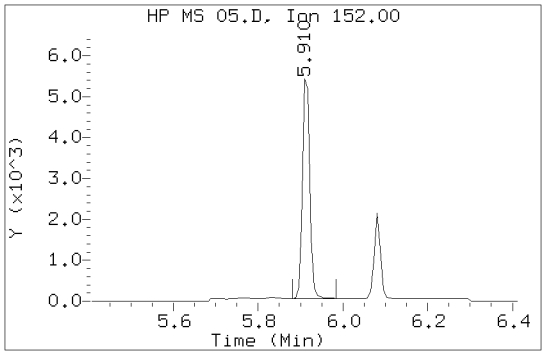
BEFORE

MASS
152
AREA
6461
HEIGHT
5373
18-Dec-2023
10:16
linh
pham



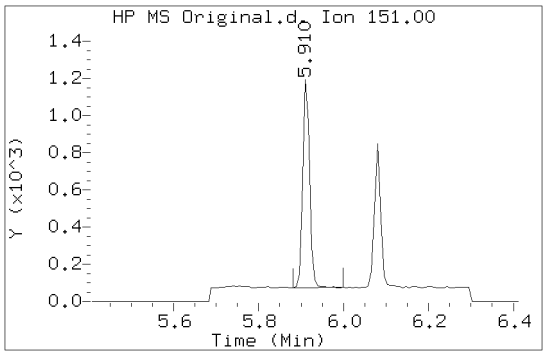
AFTER

MASS
152
AREA
6461
HEIGHT
5373
18-Dec-2023
10:16
linh
pham



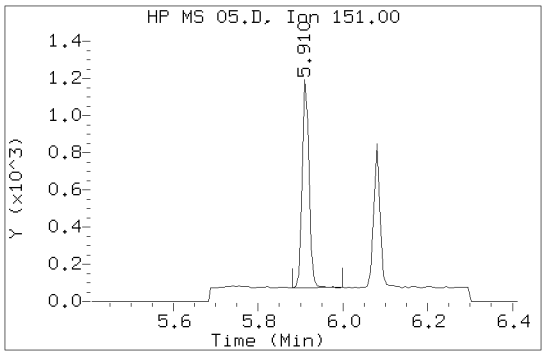
BEFORE

MASS
151
AREA
1246
HEIGHT
1118
18-Dec-2023
10:16
linh
pham



AFTER

MASS
151
AREA
1246
HEIGHT
1118
18-Dec-2023
10:16
linh
pham



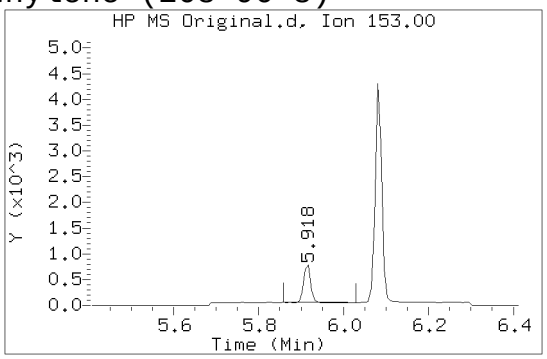
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Acenaphthylene (208-96-8)

Reason Code:

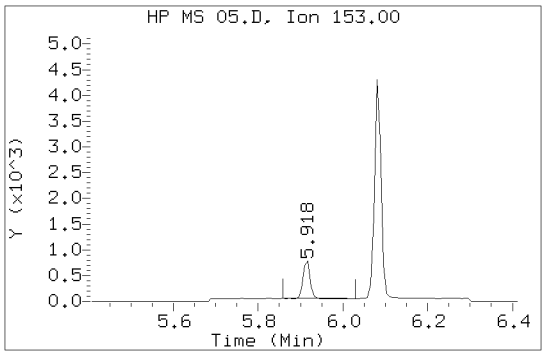
BEFORE

MASS
153
AREA
835
HEIGHT
723
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
835
HEIGHT
723
18-Dec-2023
10:16
linh
pham

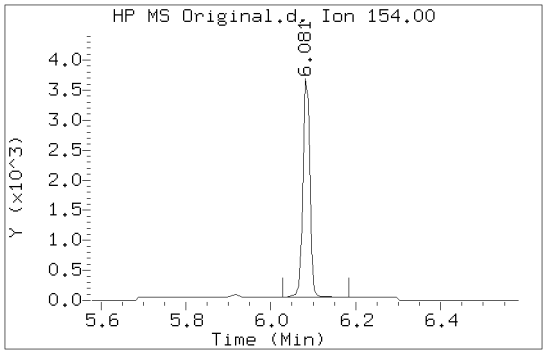


Acenaphthene (83-32-9)

Reason Code:

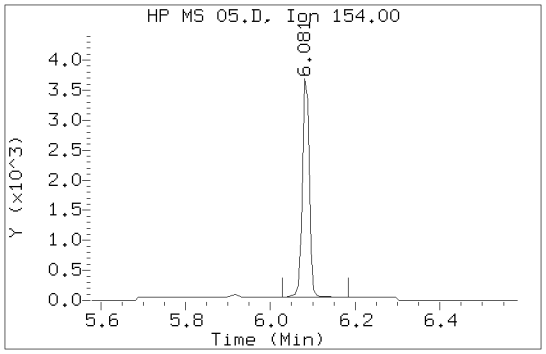
BEFORE

MASS
154
AREA
4156
HEIGHT
3636
18-Dec-2023
10:16
linh
pham



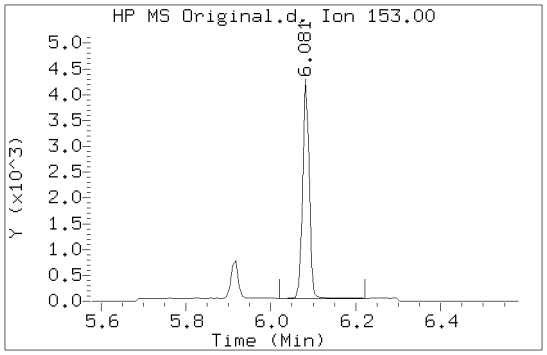
AFTER

MASS
154
AREA
4156
HEIGHT
3636
18-Dec-2023
10:16
linh
pham



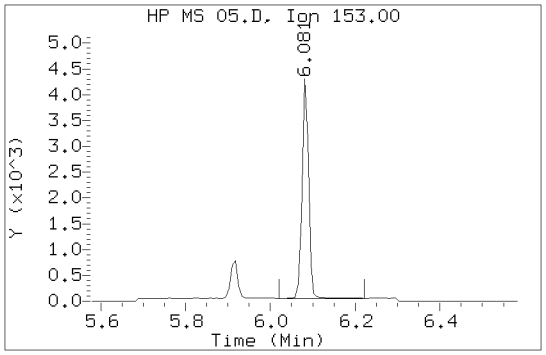
BEFORE

MASS
153
AREA
4479
HEIGHT
4250
18-Dec-2023
10:16
linh
pham



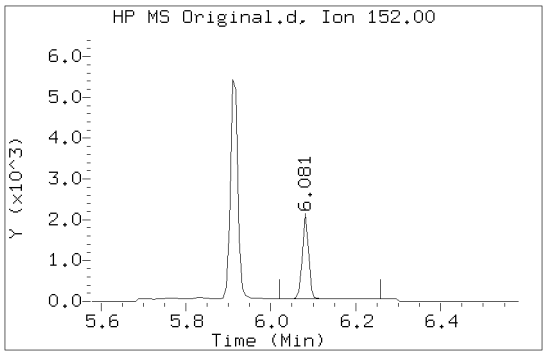
AFTER

MASS
153
AREA
4479
HEIGHT
4250
18-Dec-2023
10:16
linh
pham



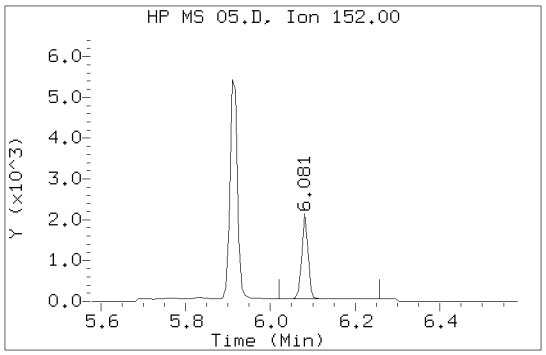
BEFORE

MASS
152
AREA
2082
HEIGHT
2088
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
2082
HEIGHT
2088
18-Dec-2023
10:16
linh
pham



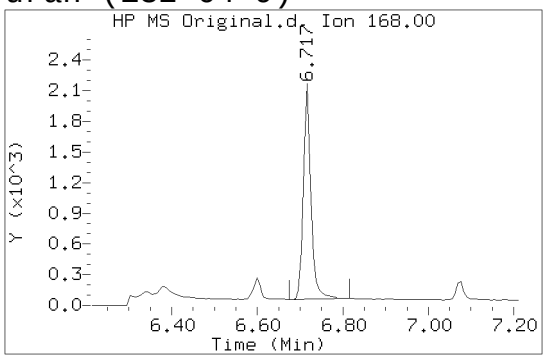
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Dibenzofuran (132-64-9)

Reason Code:

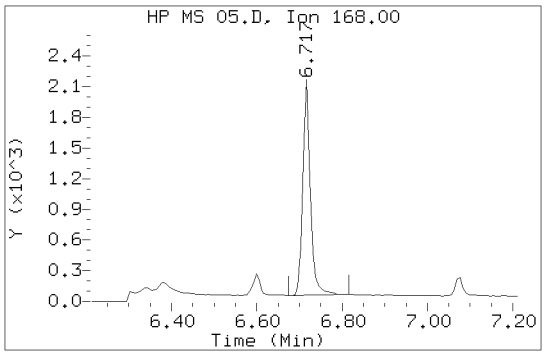
BEFORE

MASS
168
AREA
2602
HEIGHT
2107
18-Dec-2023
10:16
linh
pham



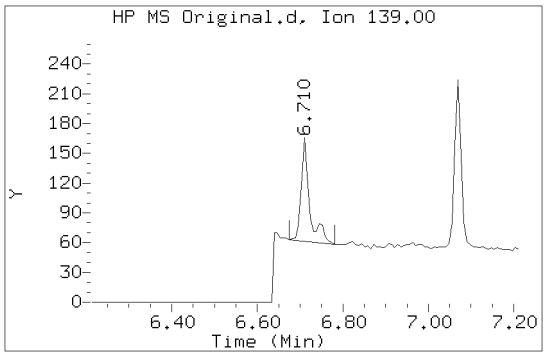
AFTER

MASS
168
AREA
2602
HEIGHT
2107
18-Dec-2023
10:16
linh
pham



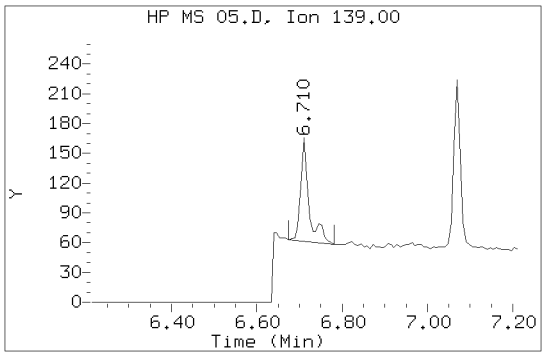
BEFORE

MASS
139
AREA
144
HEIGHT
104
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
144
HEIGHT
104
18-Dec-2023
10:16
linh
pham

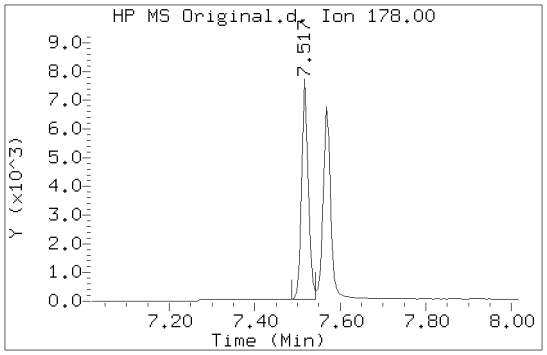


Phenanthrene (85-01-8)

Reason Code:

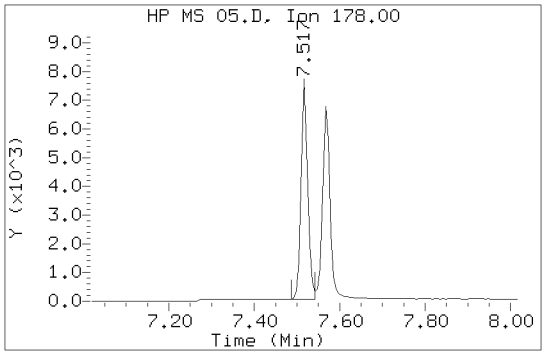
BEFORE

MASS
178
AREA
8192
HEIGHT
7668
18-Dec-2023
10:16
linh
pham



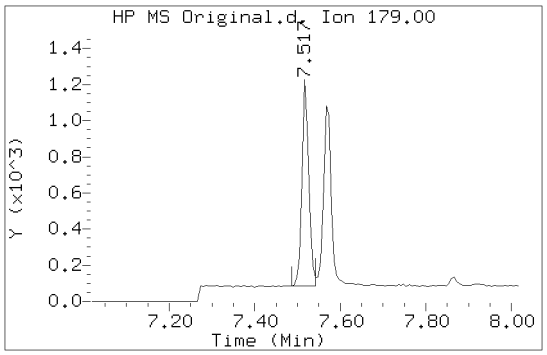
AFTER

MASS
178
AREA
8192
HEIGHT
7668
18-Dec-2023
10:16
linh
pham



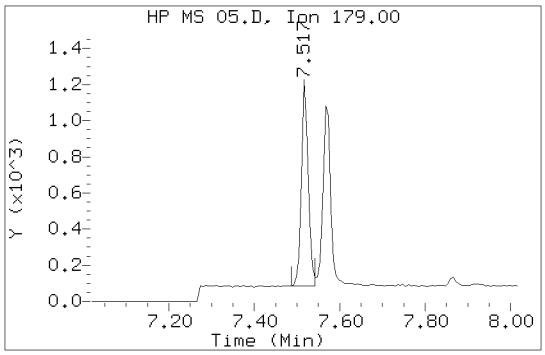
BEFORE

MASS
179
AREA
1254
HEIGHT
1141
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
1254
HEIGHT
1141
18-Dec-2023
10:16
linh
pham



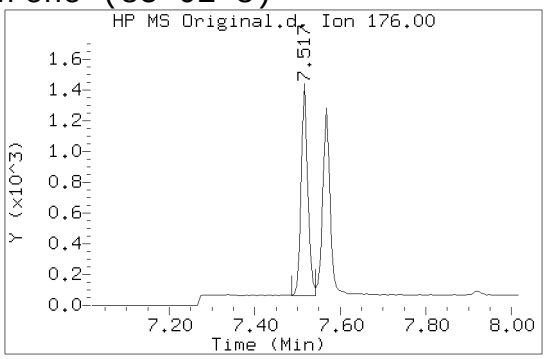
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Phenanthrene (85-01-8)

Reason Code:

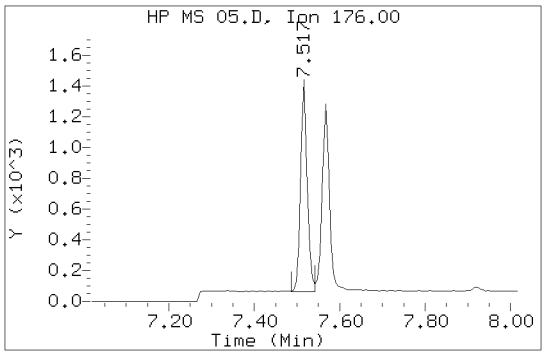
BEFORE

MASS
176
AREA
1487
HEIGHT
1376
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
1487
HEIGHT
1376
18-Dec-2023
10:16
linh
pham

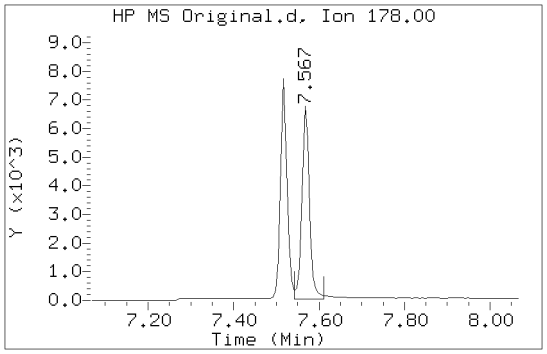


Anthracene (120-12-7)

Reason Code:

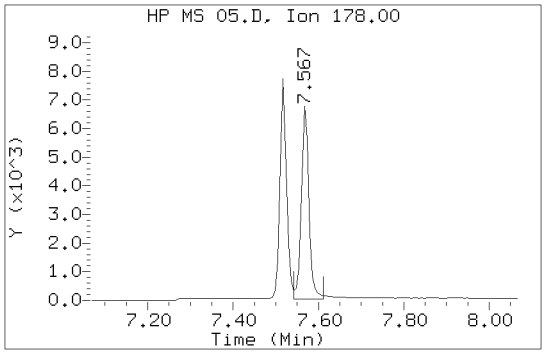
BEFORE

MASS
178
AREA
8121
HEIGHT
6745
18-Dec-2023
10:16
linh
pham



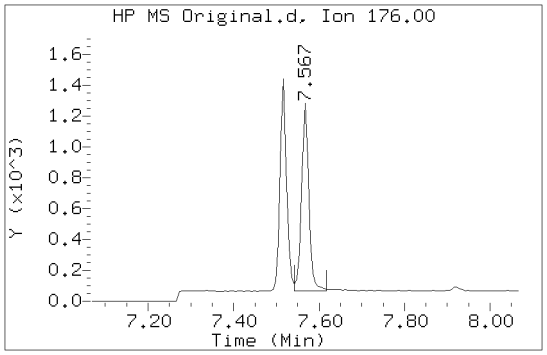
AFTER

MASS
178
AREA
8121
HEIGHT
6745
18-Dec-2023
10:16
linh
pham



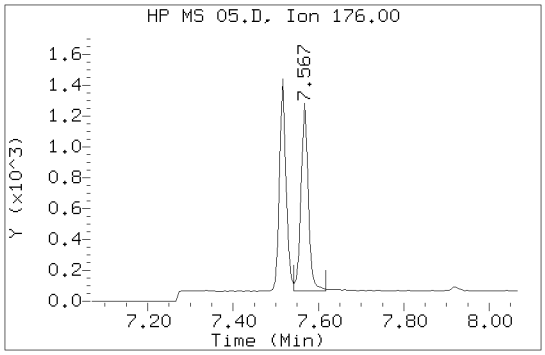
BEFORE

MASS
176
AREA
1417
HEIGHT
1217
18-Dec-2023
10:16
linh
pham



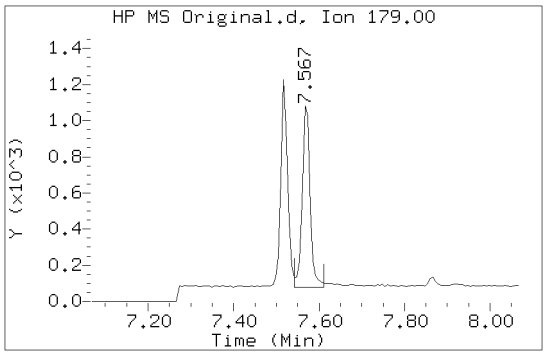
AFTER

MASS
176
AREA
1417
HEIGHT
1217
18-Dec-2023
10:16
linh
pham



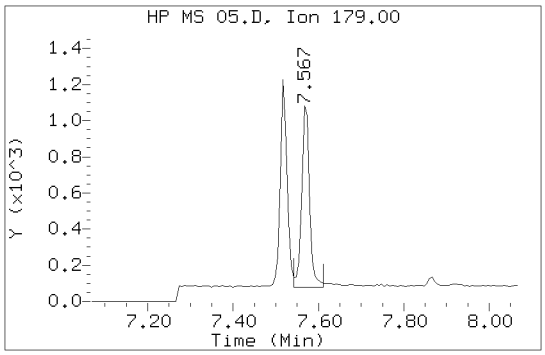
BEFORE

MASS
179
AREA
1273
HEIGHT
1003
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
1273
HEIGHT
1003
18-Dec-2023
10:16
linh
pham

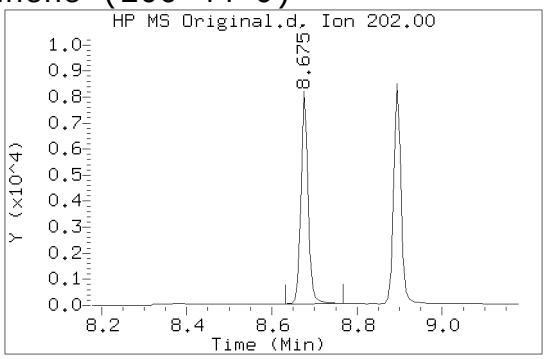


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

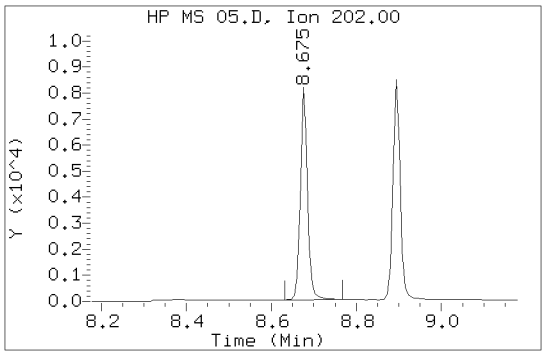
Fluoranthene (206-44-0)

Reason Code:

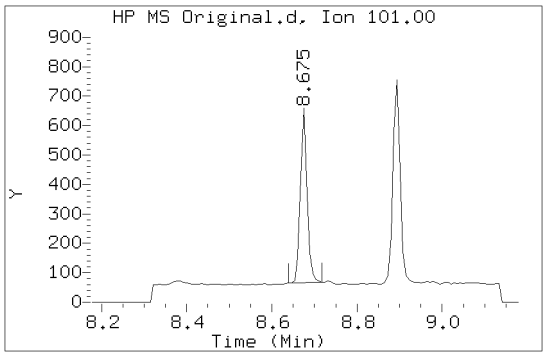
BEFORE
MASS
202
AREA
9509
HEIGHT
8151
18-Dec-2023
10:16
linh
pham



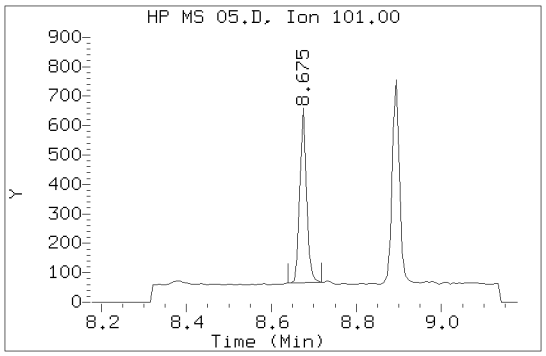
AFTER
MASS
202
AREA
9509
HEIGHT
8151
18-Dec-2023
10:16
linh
pham



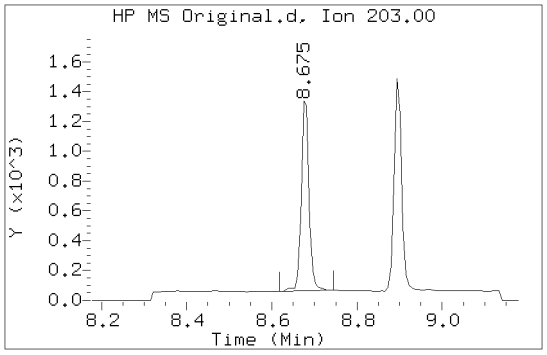
BEFORE
MASS
101
AREA
657
HEIGHT
593
18-Dec-2023
10:16
linh
pham



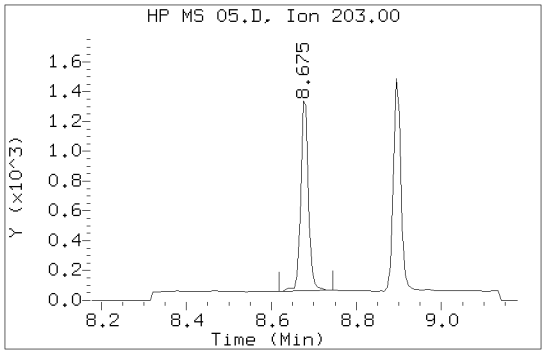
AFTER
MASS
101
AREA
657
HEIGHT
593
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
203
AREA
1635
HEIGHT
1275
18-Dec-2023
10:16
linh
pham



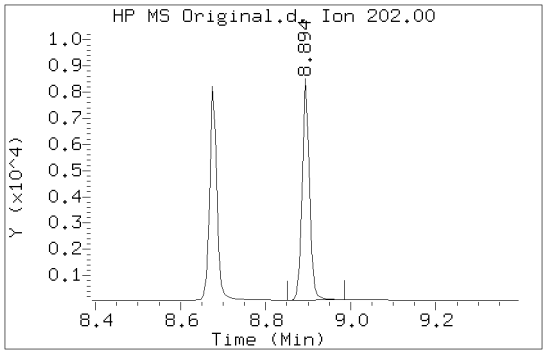
AFTER
MASS
203
AREA
1635
HEIGHT
1275
18-Dec-2023
10:16
linh
pham



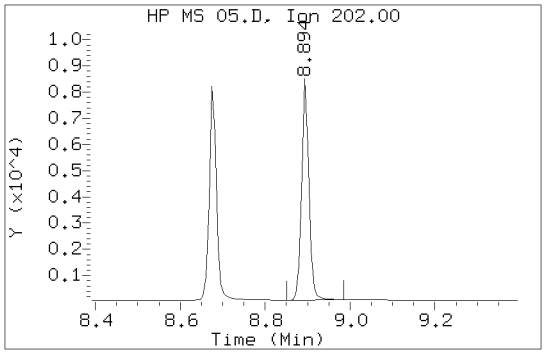
Pyrene (129-00-0)

Reason Code:

BEFORE
MASS
202
AREA
9943
HEIGHT
8445
18-Dec-2023
10:16
linh
pham



AFTER
MASS
202
AREA
9943
HEIGHT
8445
18-Dec-2023
10:16
linh
pham



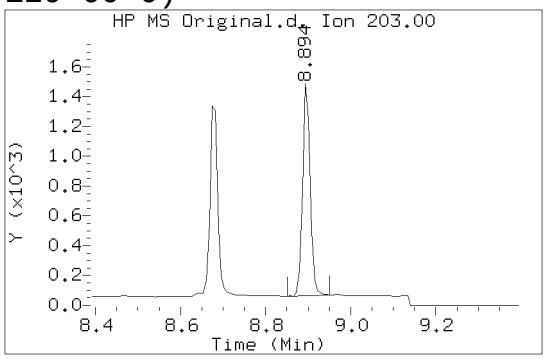
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Pyrene (129-00-0)

Reason Code:

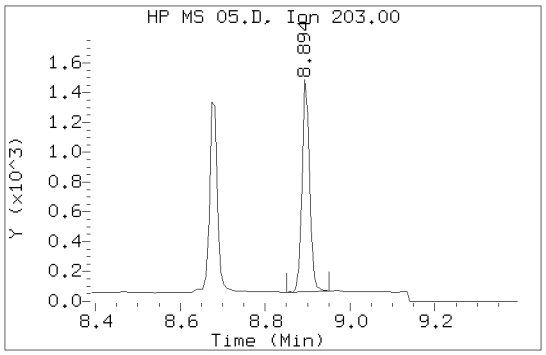
BEFORE

MASS
203
AREA
1740
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



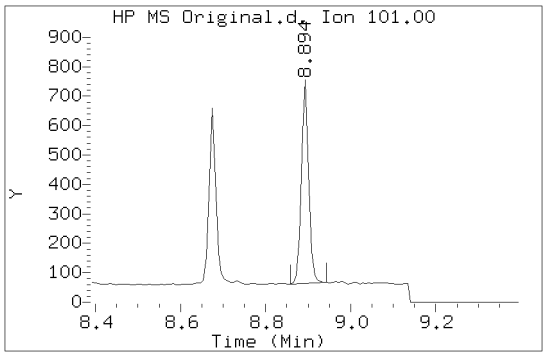
AFTER

MASS
203
AREA
1740
HEIGHT
1422
18-Dec-2023
10:16
linh
pham



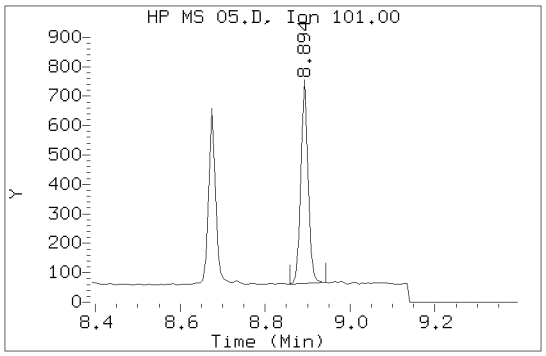
BEFORE

MASS
101
AREA
814
HEIGHT
690
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
814
HEIGHT
690
18-Dec-2023
10:16
linh
pham

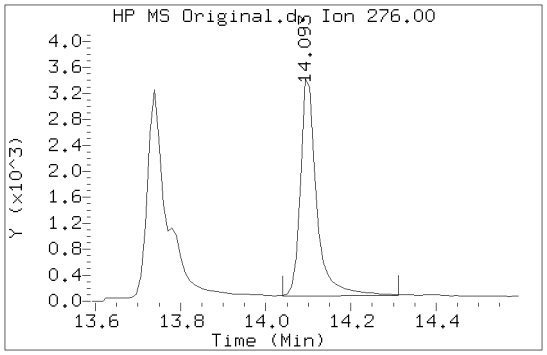


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

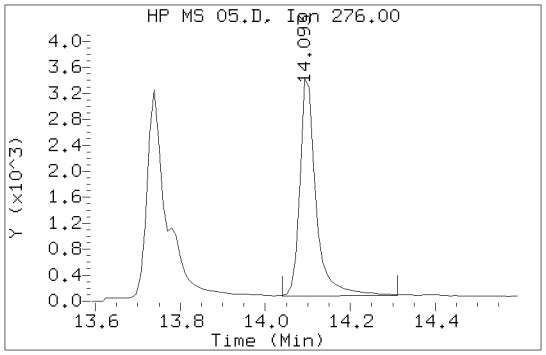
BEFORE

MASS
276
AREA
8760
HEIGHT
3340
18-Dec-2023
10:16
linh
pham



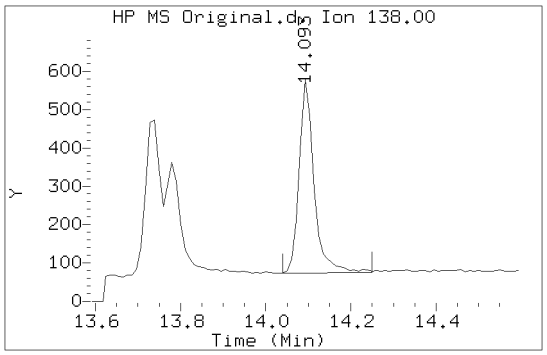
AFTER

MASS
276
AREA
8760
HEIGHT
3340
18-Dec-2023
10:16
linh
pham



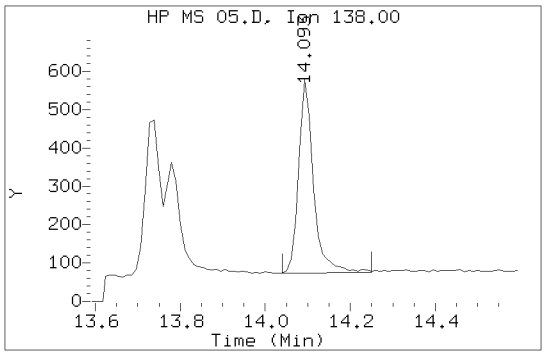
BEFORE

MASS
138
AREA
1218
HEIGHT
504
18-Dec-2023
10:16
linh
pham



AFTER

MASS
138
AREA
1218
HEIGHT
504
18-Dec-2023
10:16
linh
pham



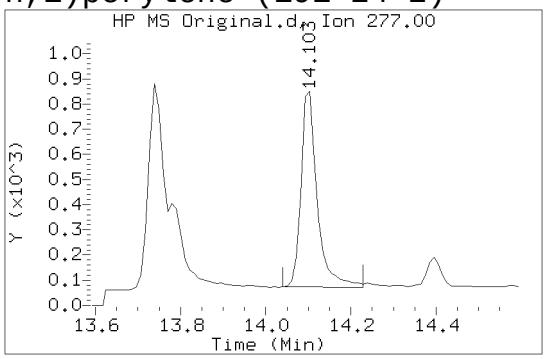
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

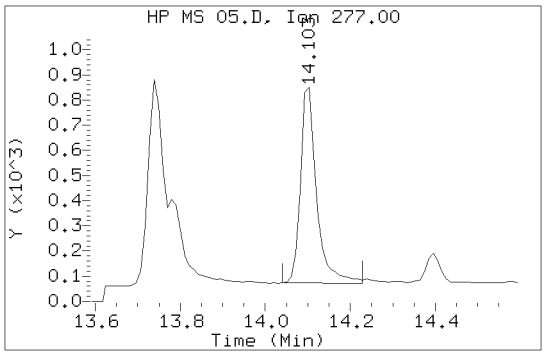
BEFORE

MASS
277
AREA
2041
HEIGHT
778
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
2041
HEIGHT
778
18-Dec-2023
10:16
linh
pham

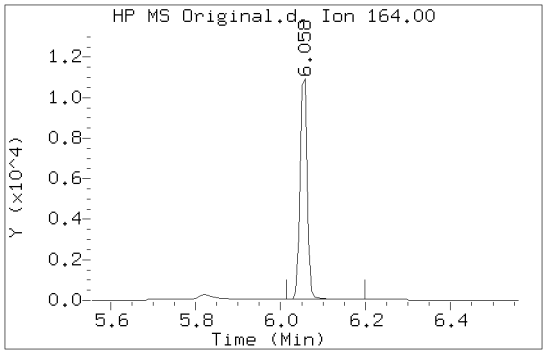


Acenaphthene-d10 (15067-26-2)

Reason Code:

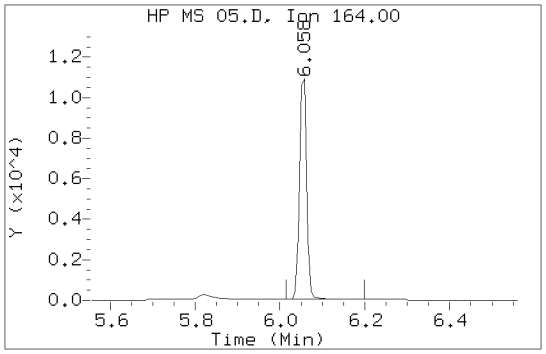
BEFORE

MASS
164
AREA
12667
HEIGHT
10873
18-Dec-2023
10:16
linh
pham



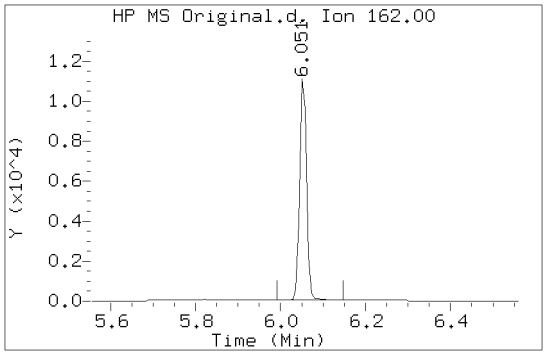
AFTER

MASS
164
AREA
12667
HEIGHT
10873
18-Dec-2023
10:16
linh
pham



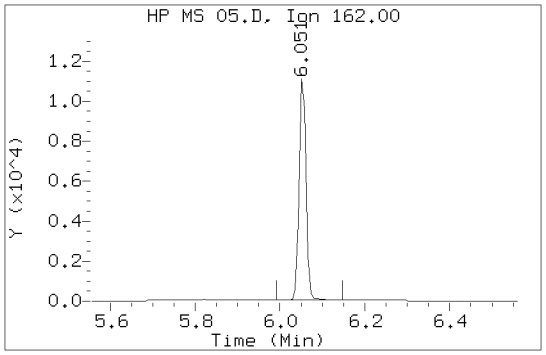
BEFORE

MASS
162
AREA
12338
HEIGHT
11056
18-Dec-2023
10:16
linh
pham



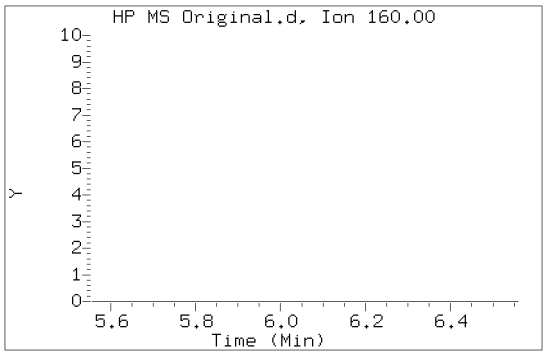
AFTER

MASS
162
AREA
12338
HEIGHT
11056
18-Dec-2023
10:16
linh
pham



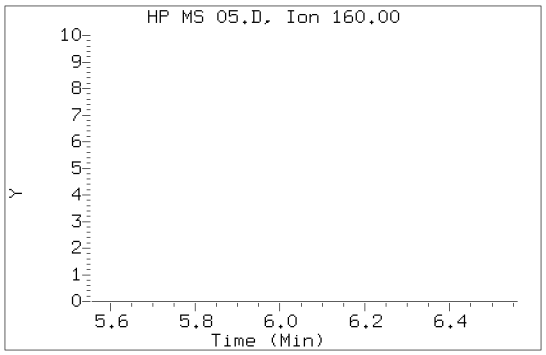
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



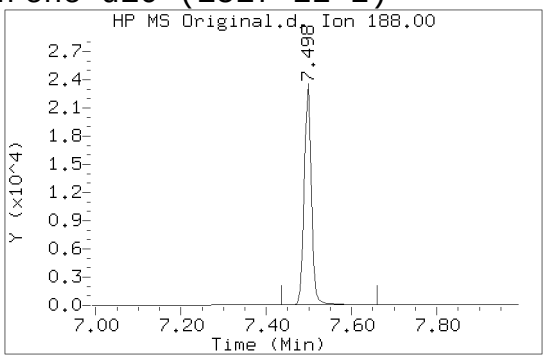
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Phenanthrene-d10 (1517-22-2)

Reason Code:

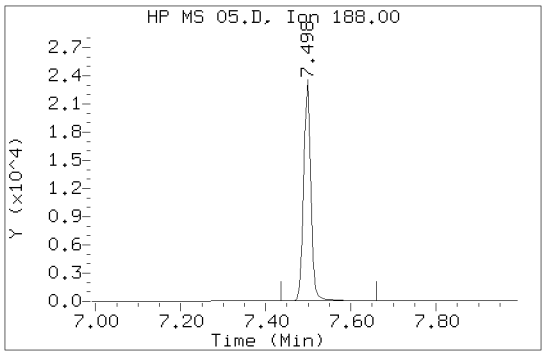
BEFORE

MASS
188
AREA
26652
HEIGHT
23524
18-Dec-2023
10:16
linh
pham



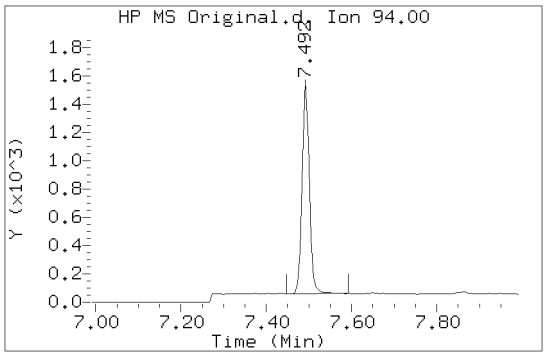
AFTER

MASS
188
AREA
26652
HEIGHT
23524
18-Dec-2023
10:16
linh
pham



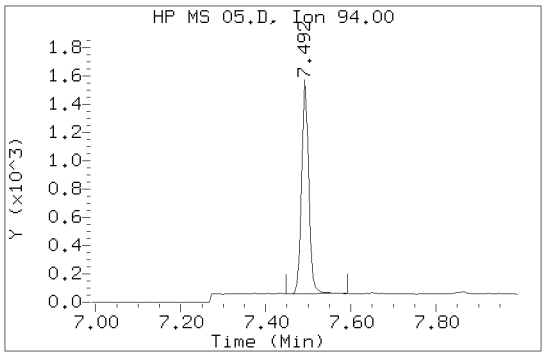
BEFORE

MASS
94
AREA
1693
HEIGHT
1511
18-Dec-2023
10:16
linh
pham



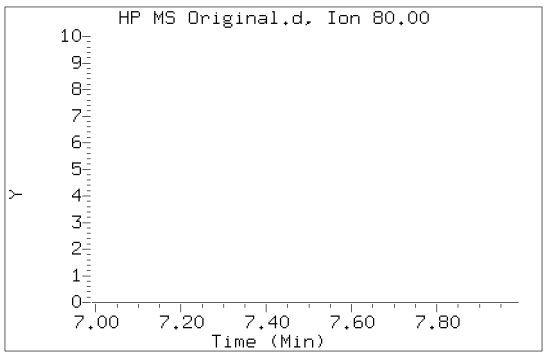
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MASS
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AREA
1693
HEIGHT
1511
18-Dec-2023
10:16
linh
pham



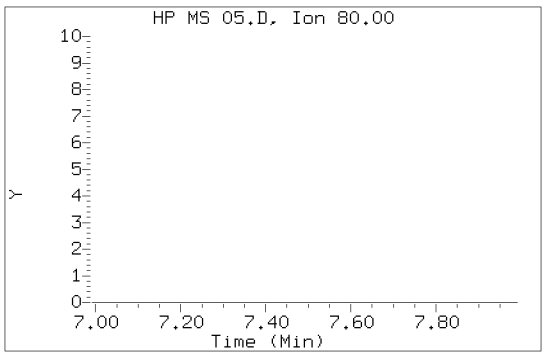
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

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AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
pham

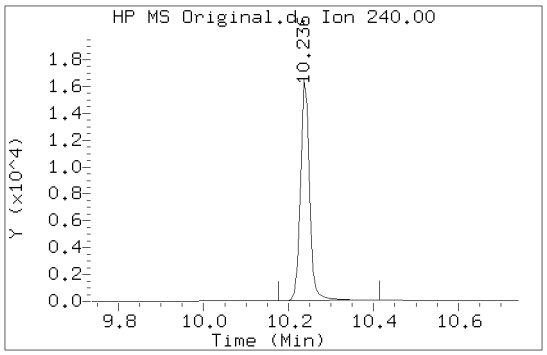


Chrysene-d12 (1719-03-5)

Reason Code:

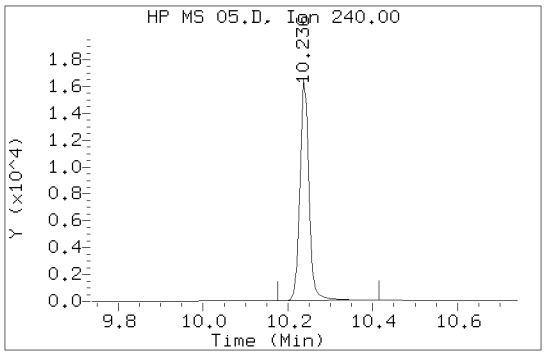
BEFORE

MASS
240
AREA
24444
HEIGHT
16452
18-Dec-2023
10:16
linh
pham



AFTER

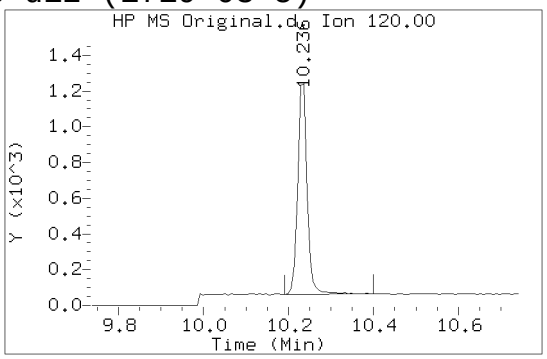
MASS
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AREA
24444
HEIGHT
16452
18-Dec-2023
10:16
linh
pham



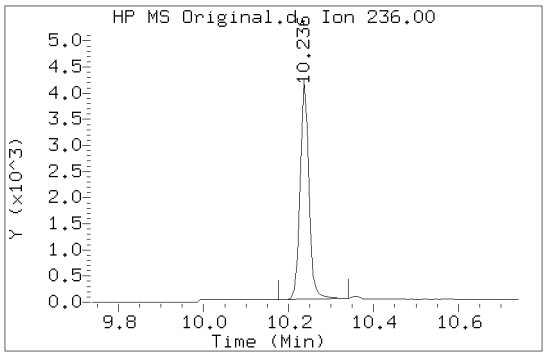
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Chrysene-d12 (1719-03-5)

BEFORE
MASS
120
AREA
1808
HEIGHT
1179
18-Dec-2023
10:16
linh
pham

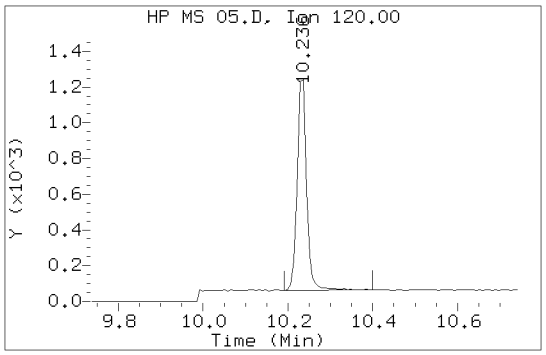


BEFORE
MASS
236
AREA
5922
HEIGHT
4190
18-Dec-2023
10:16
linh
pham

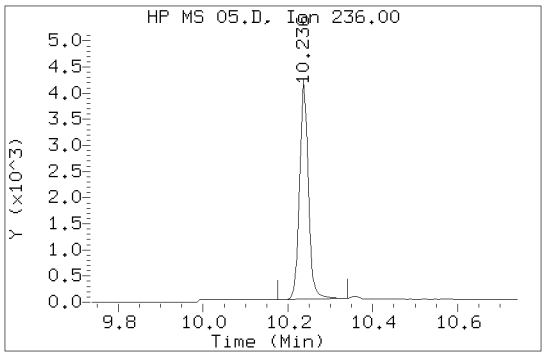


Reason Code:

AFTER
MASS
120
AREA
1808
HEIGHT
1179
18-Dec-2023
10:16
linh
pham

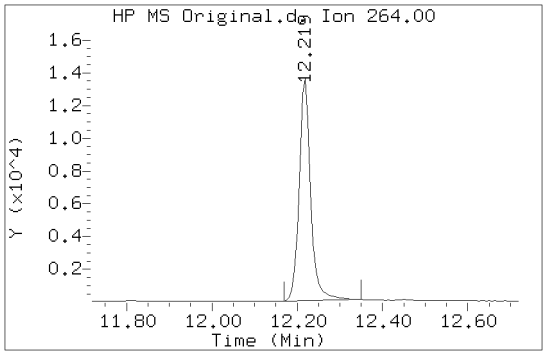


AFTER
MASS
236
AREA
5922
HEIGHT
4190
18-Dec-2023
10:16
linh
pham

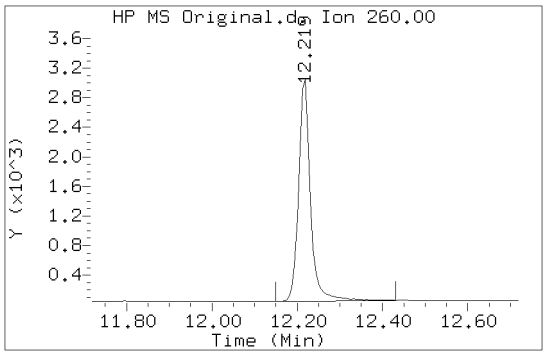


Perylene-d12 (1520-96-3)

BEFORE
MASS
264
AREA
25730
HEIGHT
13541
18-Dec-2023
10:16
linh
pham

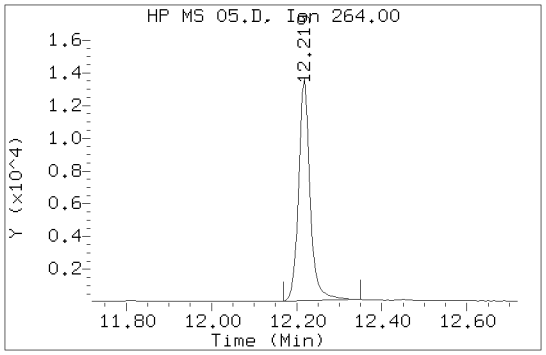


BEFORE
MASS
260
AREA
5834
HEIGHT
2991
18-Dec-2023
10:16
linh
pham

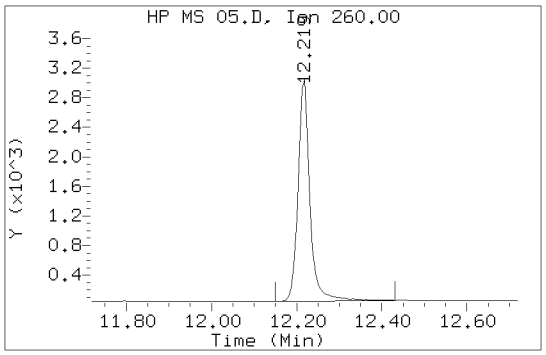


Reason Code:

AFTER
MASS
264
AREA
25730
HEIGHT
13541
18-Dec-2023
10:16
linh
pham



AFTER
MASS
260
AREA
5834
HEIGHT
2991
18-Dec-2023
10:16
linh
pham



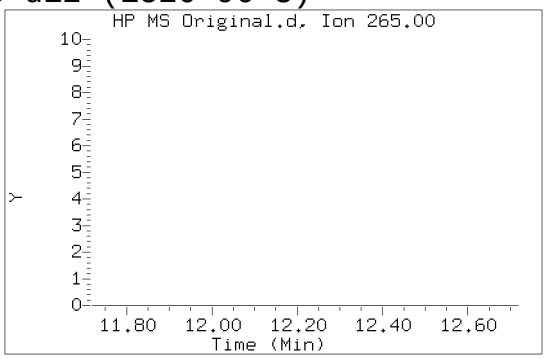
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Perylene-d12 (1520-96-3)

Reason Code:

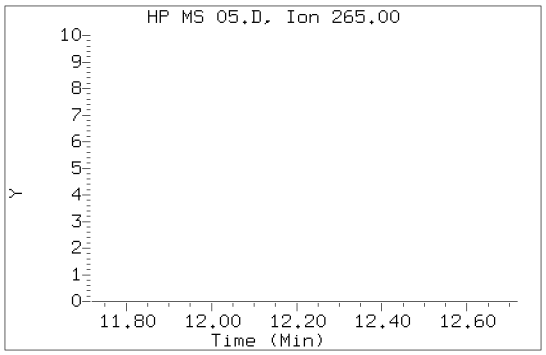
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

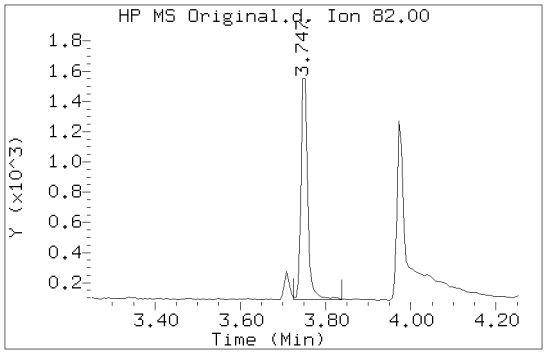


Nitrobenzene-d5 (4165-60-0)

Reason Code:

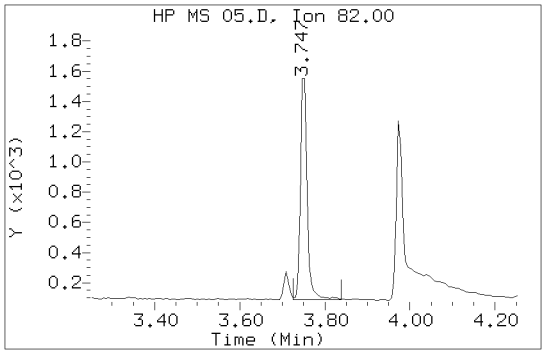
BEFORE

MASS
82
AREA
1606
HEIGHT
1464
18-Dec-2023
10:16
linh
pham



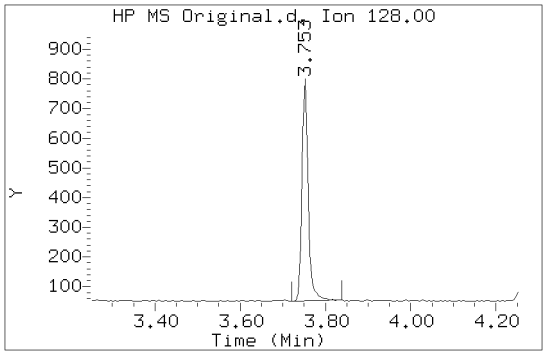
AFTER

MASS
82
AREA
1606
HEIGHT
1464
18-Dec-2023
10:16
linh
pham



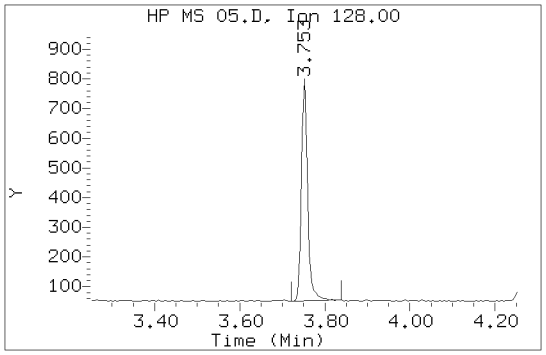
BEFORE

MASS
128
AREA
740
HEIGHT
747
18-Dec-2023
10:16
linh
pham



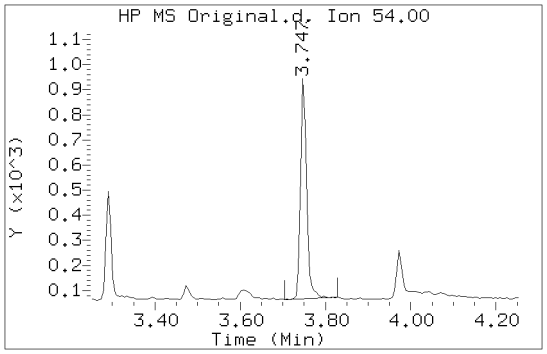
AFTER

MASS
128
AREA
740
HEIGHT
747
18-Dec-2023
10:16
linh
pham



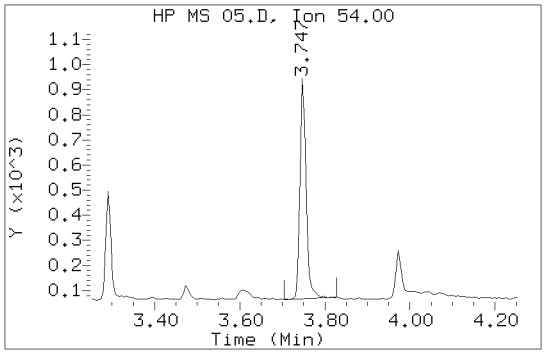
BEFORE

MASS
54
AREA
867
HEIGHT
877
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
867
HEIGHT
877
18-Dec-2023
10:16
linh
pham



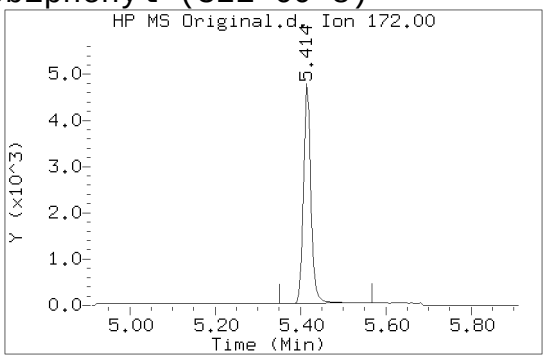
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

2-Fluorobiphenyl (321-60-8)

Reason Code:

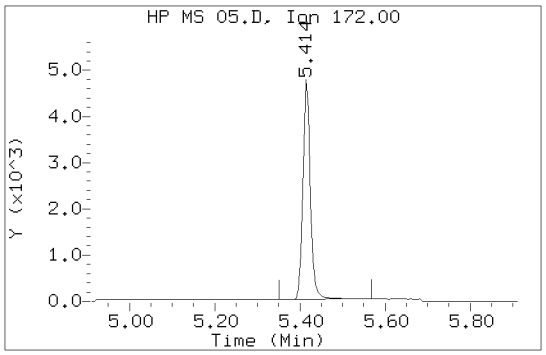
BEFORE

MASS
172
AREA
5723
HEIGHT
4747
18-Dec-2023
10:16
linh
pham



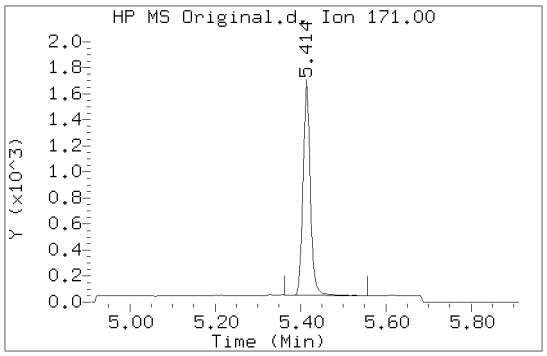
AFTER

MASS
172
AREA
5723
HEIGHT
4747
18-Dec-2023
10:16
linh
pham



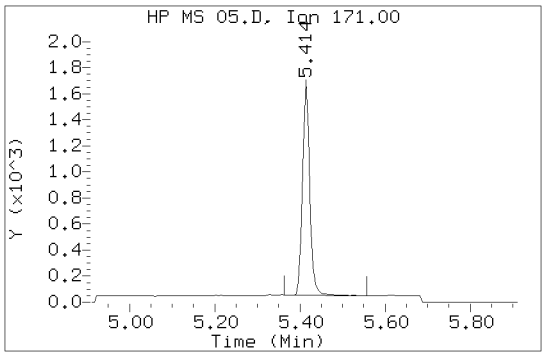
BEFORE

MASS
171
AREA
1935
HEIGHT
1654
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
1935
HEIGHT
1654
18-Dec-2023
10:16
linh
pham

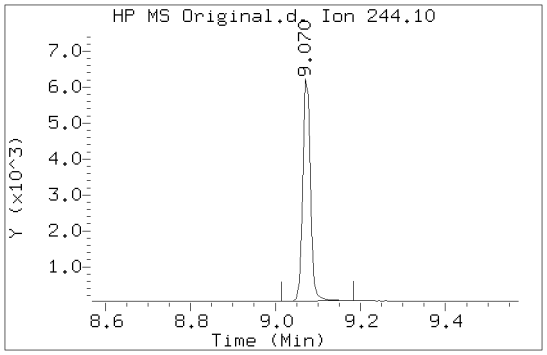


4-Terphenyl-d14 (1718-51-0)

Reason Code:

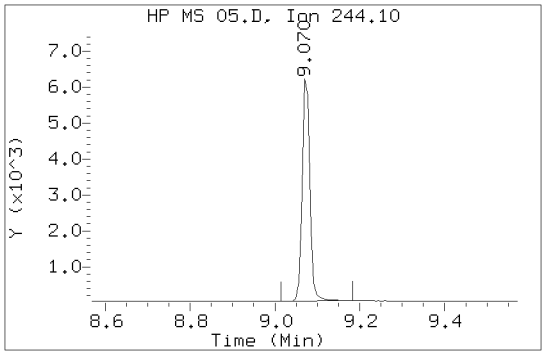
BEFORE

MASS
244.1
AREA
6999
HEIGHT
6174
18-Dec-2023
10:16
linh
pham



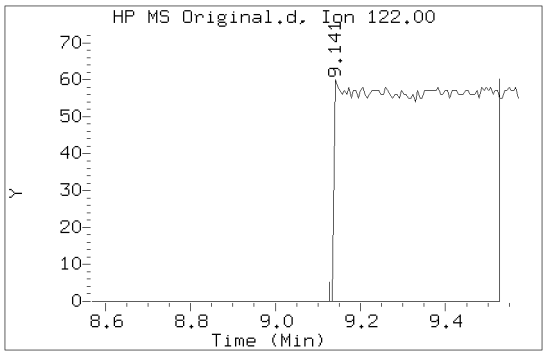
AFTER

MASS
244.1
AREA
6999
HEIGHT
6174
18-Dec-2023
10:16
linh
pham



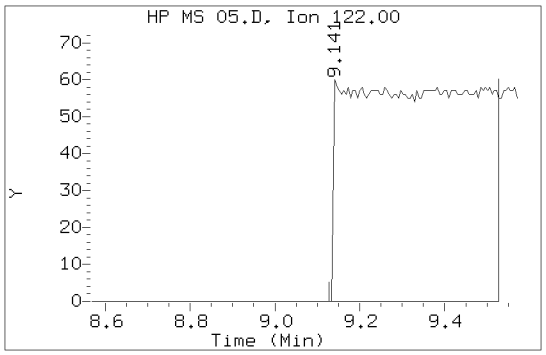
BEFORE

MASS
122
AREA
1342
HEIGHT
60
18-Dec-2023
10:16
linh
pham



AFTER

MASS
122
AREA
1342
HEIGHT
60
18-Dec-2023
10:16
linh
pham



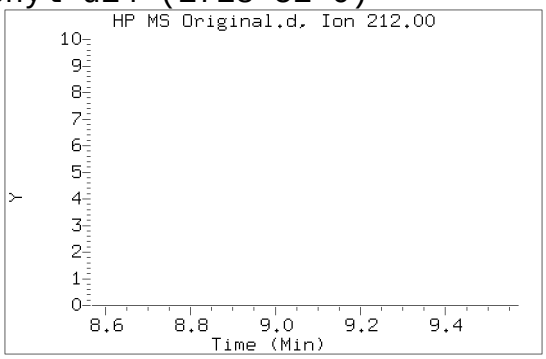
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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

4-Terphenyl-d14 (1718-51-0)

Reason Code:

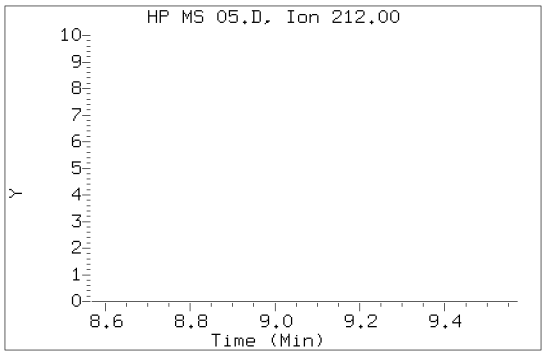
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Lab Smp Id: PAHSIM-0.050 Client Smp ID: PAHSIM-0.050
Inj Date : 12-DEC-2023 14:39
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.050
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 14:18 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	18985	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	2458	0.05000	0.04695(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	11683	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.419	5.419	(0.895)	9114	0.05000	0.04899(M)
* 126 Phenanthrene-d10	188	7.499	7.499	(1.000)	24303	0.10000	(M)
* 182 Chrysene-d12	240	10.239	10.239	(1.000)	22699	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.071	9.071	(0.886)	10988	0.05000	0.04767(M)
* 198 Perylene-d12	264	12.222	12.222	(1.000)	23087	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	10183	0.05000	0.04889(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	6820	0.05000	0.04896(M)
62 1-Methylnaphthalene	142	5.150	5.150	(1.173)	6389	0.05000	0.04916(M)
83 Acenaphthylene	152	5.917	5.917	(0.977)	10270	0.05000	0.04808(M)
88 Acenaphthene	154	6.087	6.087	(1.005)	6572	0.05000	0.04879(M)
98 Fluorene	166	6.589	6.589	(1.088)	8058	0.05000	0.04866
92 Dibenzofuran	168	6.718	6.718	(1.109)	4160	0.05000	0.04764(M)
128 Phenanthrene	178	7.518	7.518	(1.002)	12779	0.05000	0.04804
130 Anthracene	178	7.568	7.568	(1.009)	12948	0.05000	0.04884(M)
149 Fluoranthene	202	8.676	8.676	(1.157)	15163	0.05000	0.04792(M)
155 Pyrene	202	8.895	8.895	(0.869)	15971	0.05000	0.04839(M)

181 Benzo(a)Anthracene	228	10.224	10.224 (0.999)	14223	0.05000	0.04621
183 Chrysene	228	10.269	10.269 (1.003)	17029	0.05000	0.04964(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.672	11.672	(0.955)	14264	0.05000	0.04977(M)
195 Benzo(k)fluoranthene	252	11.716	11.716	(0.959)	17371	0.05000	0.05009(M)
197 Benzo(a)pyrene	252	12.134	12.134	(0.993)	13740	0.05000	0.04947(M)
209 Indeno(1,2,3-cd)pyrene	276	13.735	13.735	(1.124)	16176	0.05000	0.04867(M)
210 Dibenzo(a,h)anthracene	278	13.787	13.787	(1.128)	13560	0.05000	0.04912(QM)
212 Benzo(g,h,i)perylene	276	14.100	14.100	(1.154)	14984	0.05000	0.05048(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D

Date : 12-DEC-2023 14:39

Client ID: PAHSIM-0.050

Instrument: SV6.i

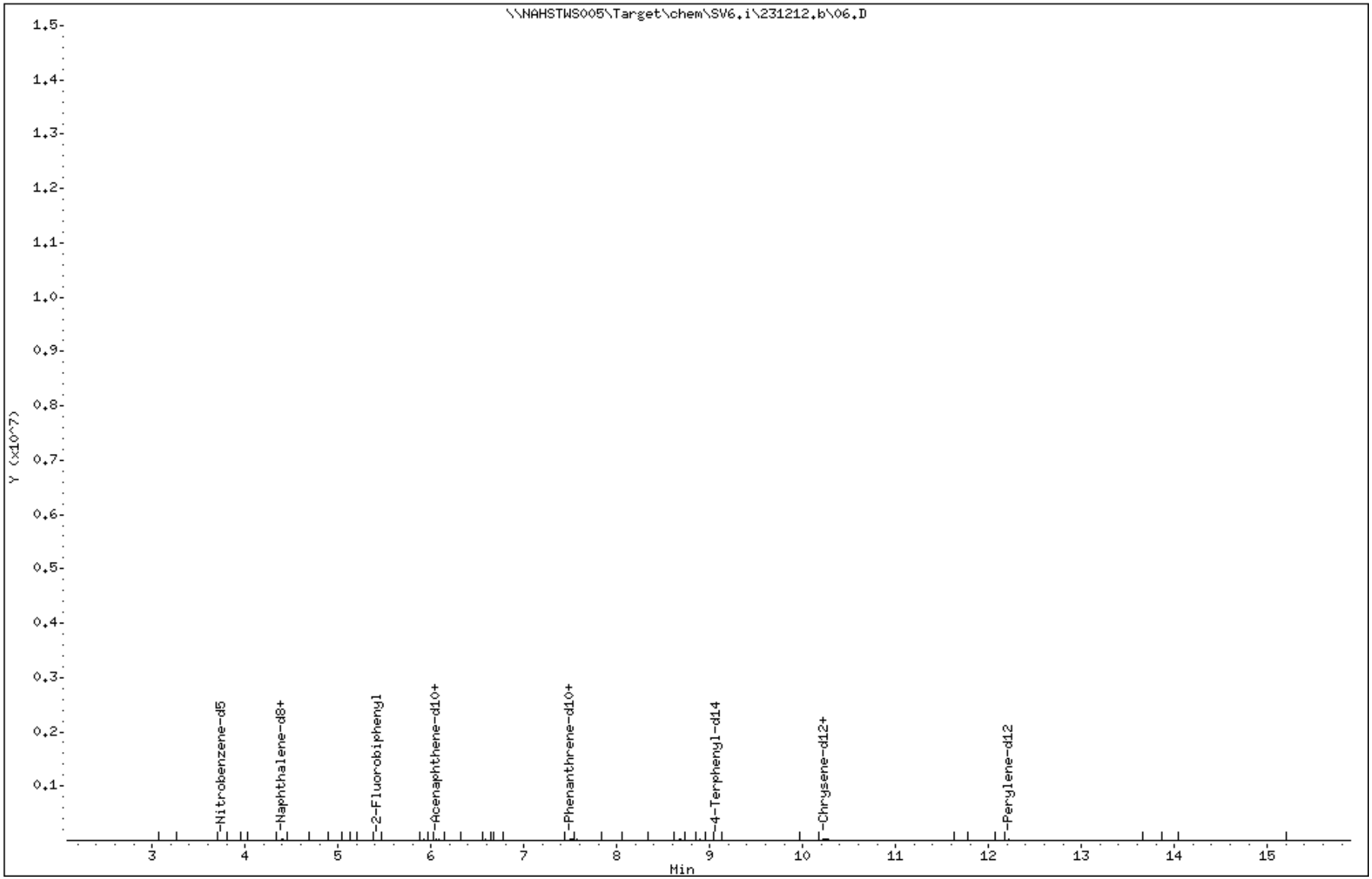
Sample Info: PAHSIM-0.050

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



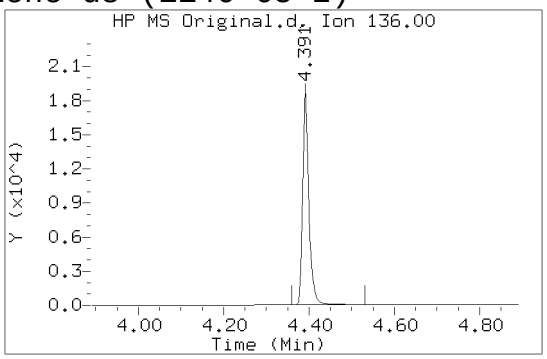
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Inj Date : 12-DEC-2023 14:39
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LabSampID : PAHSIM-0.050

Naphthalene-d8 (1146-65-2)

Reason Code:

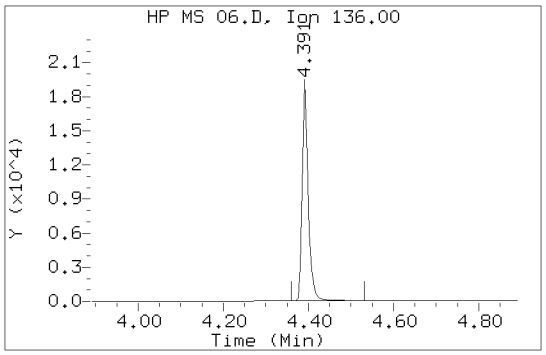
BEFORE

MASS
136
AREA
18985
HEIGHT
19440
18-Dec-2023
10:16
linh
pham



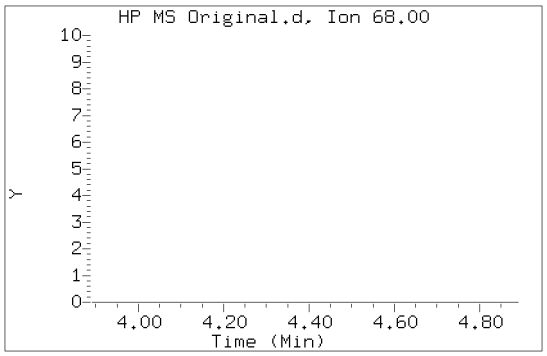
AFTER

MASS
136
AREA
18985
HEIGHT
19440
18-Dec-2023
10:16
linh
pham



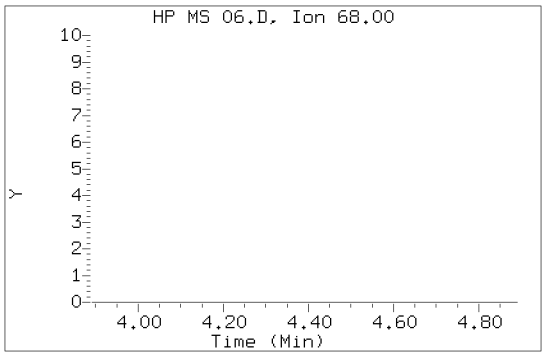
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

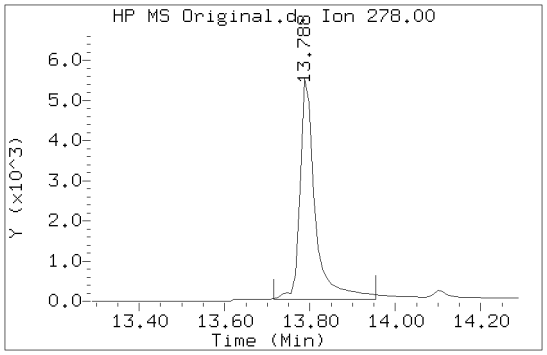


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

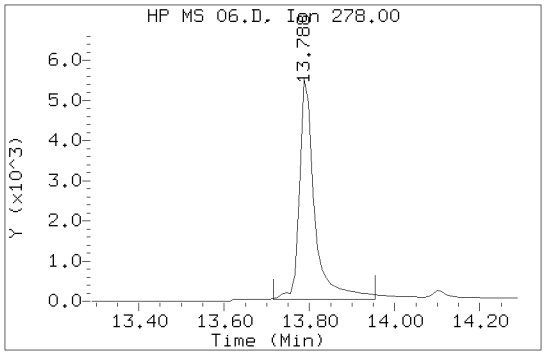
BEFORE

MASS
278
AREA
13560
HEIGHT
5487
18-Dec-2023
10:16
linh
pham



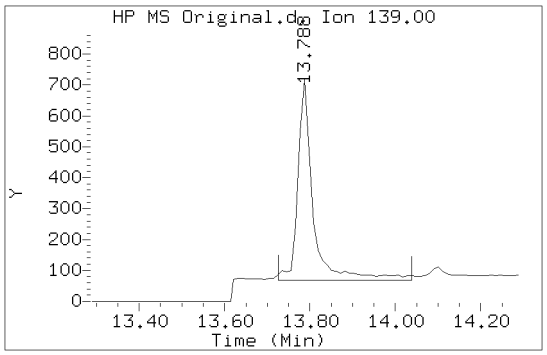
AFTER

MASS
278
AREA
13560
HEIGHT
5487
18-Dec-2023
10:16
linh
pham



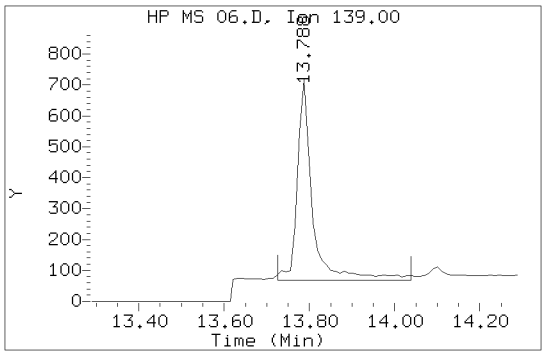
BEFORE

MASS
139
AREA
1603
HEIGHT
648
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
1603
HEIGHT
648
18-Dec-2023
10:16
linh
pham



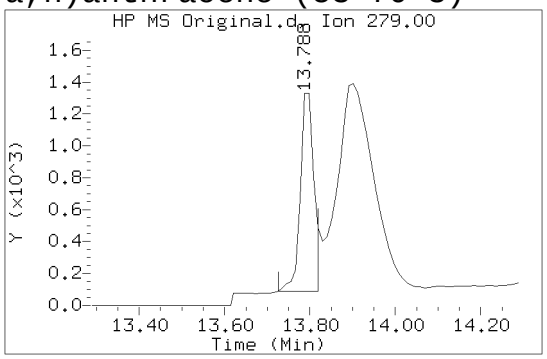
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

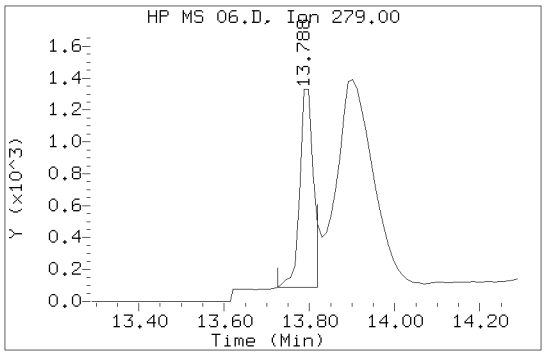
BEFORE

MASS
279
AREA
2776
HEIGHT
1242
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
2776
HEIGHT
1242
18-Dec-2023
10:16
linh
pham

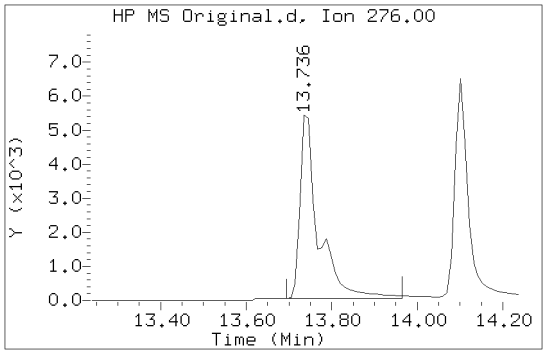


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

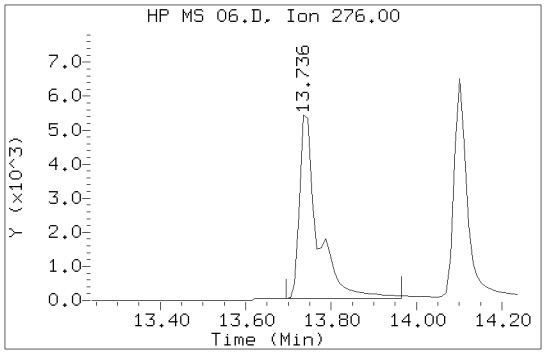
BEFORE

MASS
276
AREA
16176
HEIGHT
5399
18-Dec-2023
10:16
linh
pham



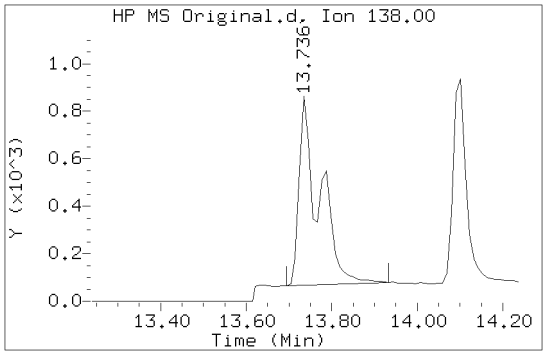
AFTER

MASS
276
AREA
16176
HEIGHT
5399
18-Dec-2023
10:16
linh
pham



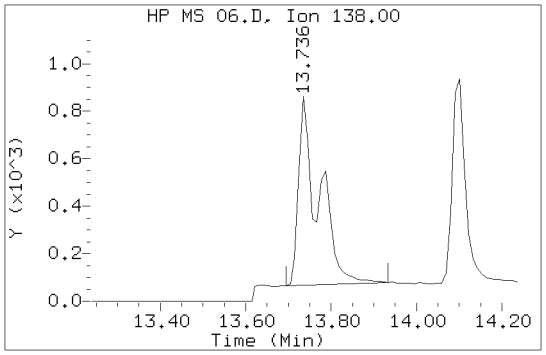
BEFORE

MASS
138
AREA
2586
HEIGHT
796
18-Dec-2023
10:16
linh
pham



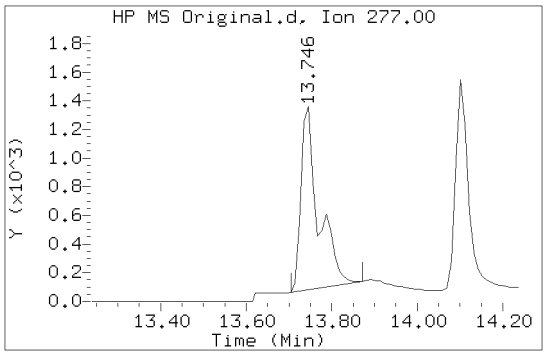
AFTER

MASS
138
AREA
2586
HEIGHT
796
18-Dec-2023
10:16
linh
pham



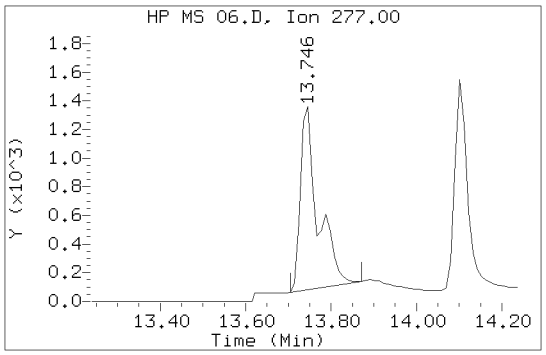
BEFORE

MASS
277
AREA
3606
HEIGHT
1277
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
3606
HEIGHT
1277
18-Dec-2023
10:16
linh
pham



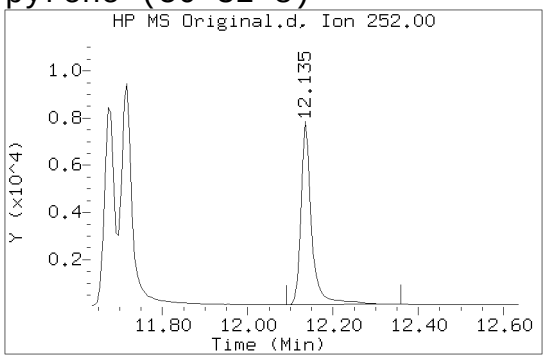
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(a)pyrene (50-32-8)

Reason Code:

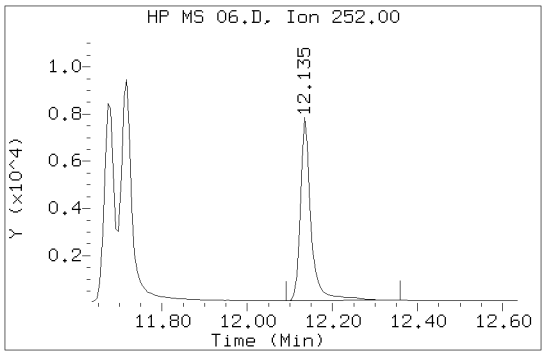
BEFORE

MASS
252
AREA
13740
HEIGHT
7757
18-Dec-2023
10:16
linh
pham



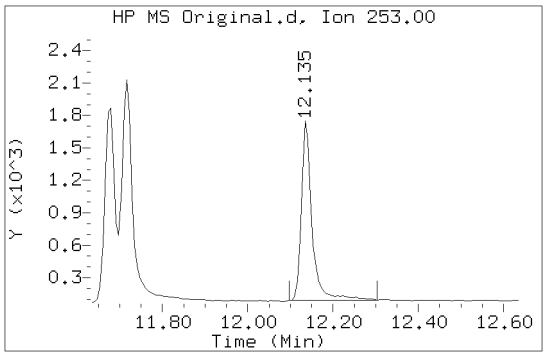
AFTER

MASS
252
AREA
13740
HEIGHT
7757
18-Dec-2023
10:16
linh
pham



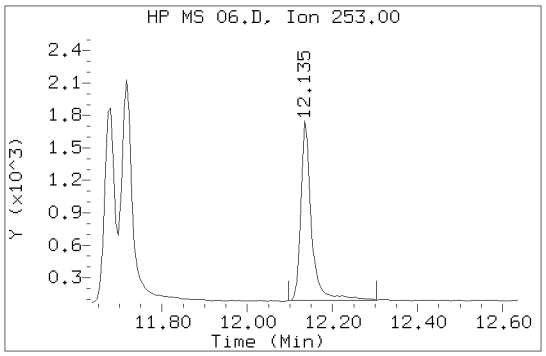
BEFORE

MASS
253
AREA
2910
HEIGHT
1658
18-Dec-2023
10:16
linh
pham



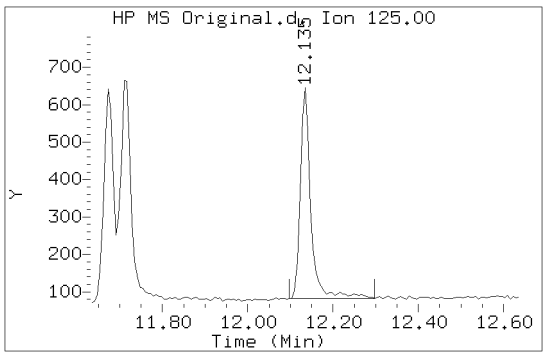
AFTER

MASS
253
AREA
2910
HEIGHT
1658
18-Dec-2023
10:16
linh
pham



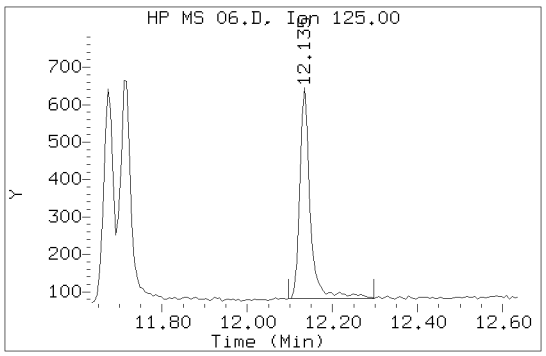
BEFORE

MASS
125
AREA
981
HEIGHT
564
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
981
HEIGHT
564
18-Dec-2023
10:16
linh
pham

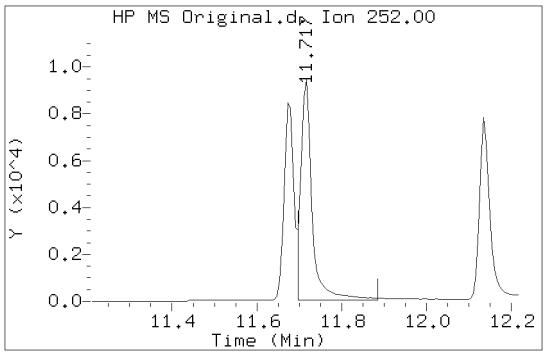


Benzo(k)fluoranthene (207-08-9)

Reason Code:

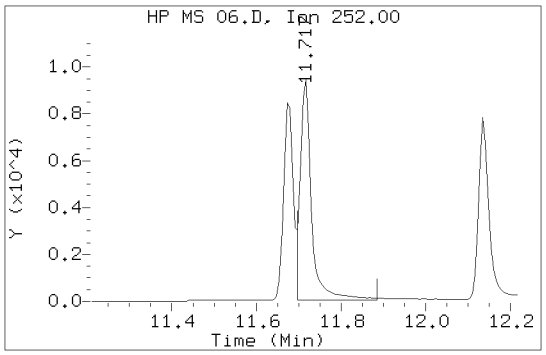
BEFORE

MASS
252
AREA
17371
HEIGHT
9396
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
17371
HEIGHT
9396
18-Dec-2023
10:16
linh
pham



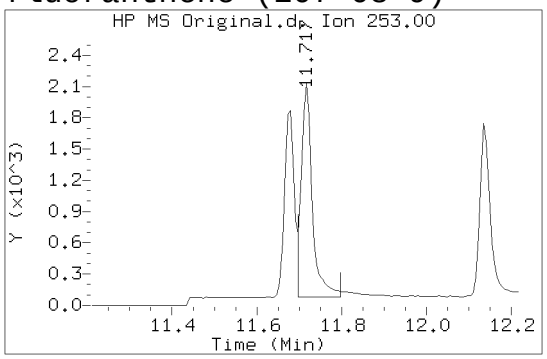
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(k)fluoranthene (207-08-9)

Reason Code:

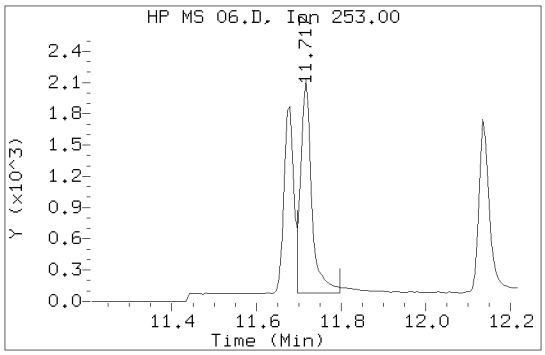
BEFORE

MASS
253
AREA
3729
HEIGHT
2048
18-Dec-2023
10:16
linh
pham



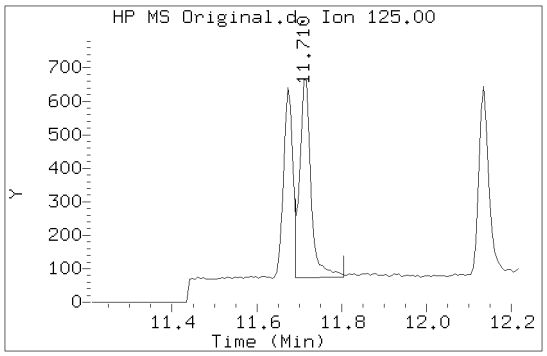
AFTER

MASS
253
AREA
3729
HEIGHT
2048
18-Dec-2023
10:16
linh
pham



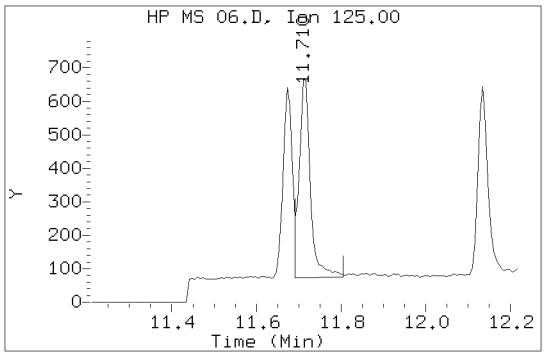
BEFORE

MASS
125
AREA
1113
HEIGHT
590
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
1113
HEIGHT
590
18-Dec-2023
10:16
linh
pham

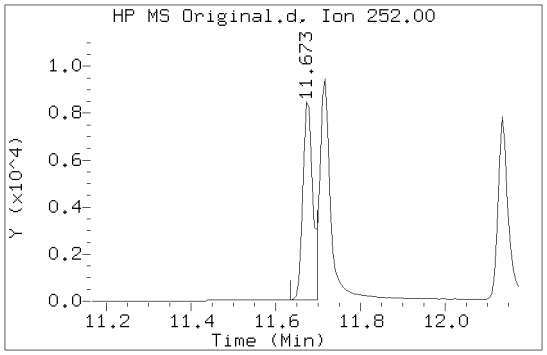


Benzo(b)fluoranthene (205-99-2)

Reason Code:

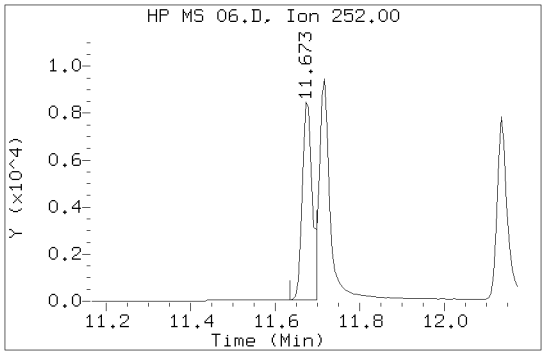
BEFORE

MASS
252
AREA
14264
HEIGHT
8401
18-Dec-2023
10:16
linh
pham



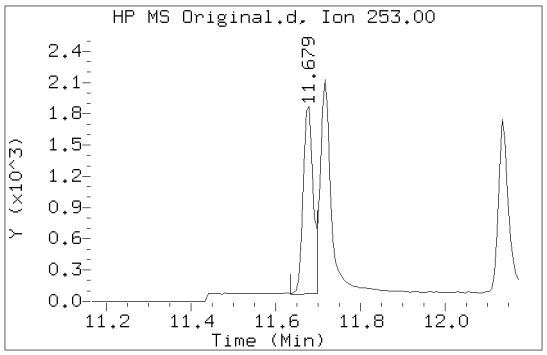
AFTER

MASS
252
AREA
14264
HEIGHT
8401
18-Dec-2023
10:16
linh
pham



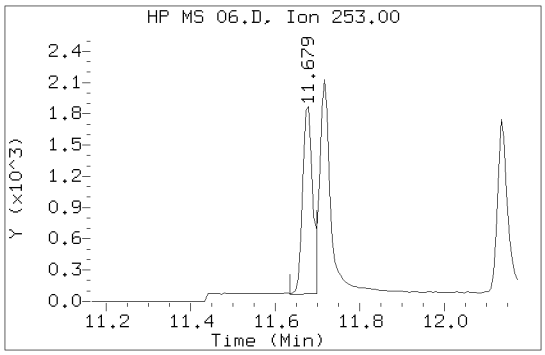
BEFORE

MASS
253
AREA
3071
HEIGHT
1795
18-Dec-2023
10:16
linh
pham



AFTER

MASS
253
AREA
3071
HEIGHT
1795
18-Dec-2023
10:16
linh
pham



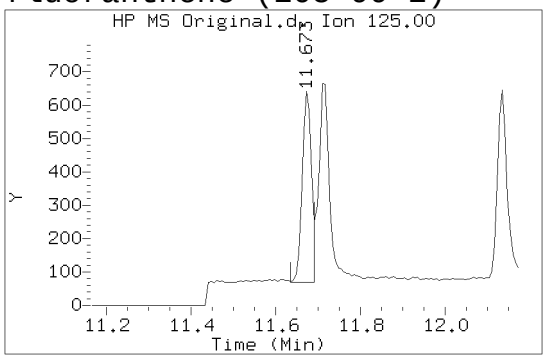
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(b)fluoranthene (205-99-2)

Reason Code:

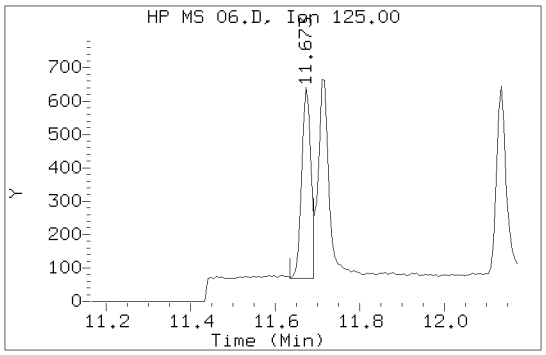
BEFORE

MASS
125
AREA
902
HEIGHT
572
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
902
HEIGHT
572
18-Dec-2023
10:16
linh
pham

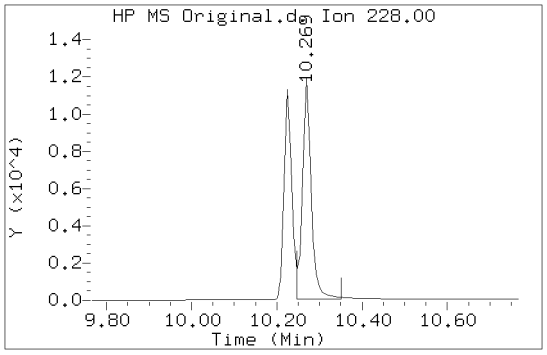


Chrysene (218-01-9)

Reason Code:

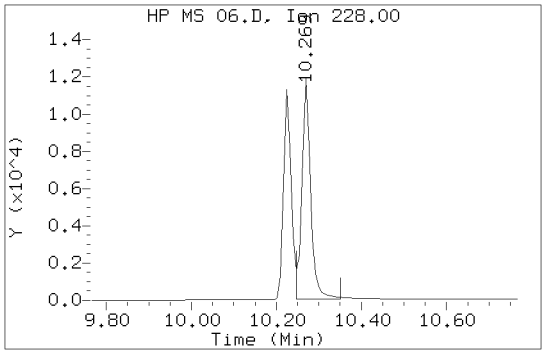
BEFORE

MASS
228
AREA
17029
HEIGHT
11851
18-Dec-2023
10:16
linh
pham



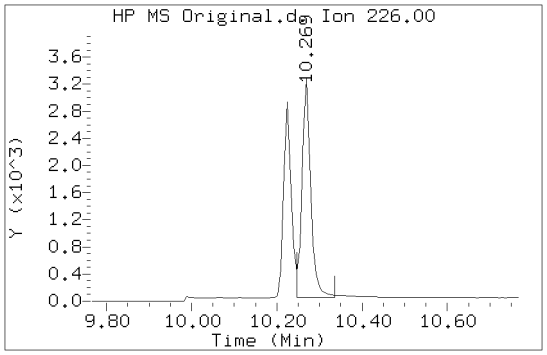
AFTER

MASS
228
AREA
17029
HEIGHT
11851
18-Dec-2023
10:16
linh
pham



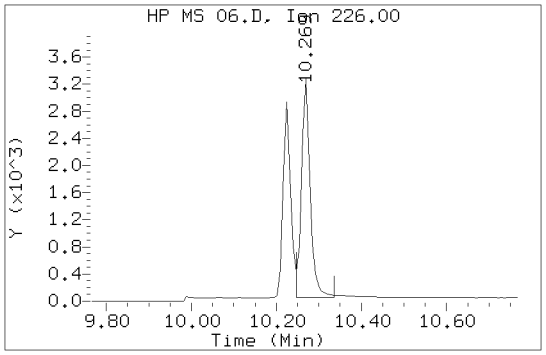
BEFORE

MASS
226
AREA
4617
HEIGHT
3222
18-Dec-2023
10:16
linh
pham



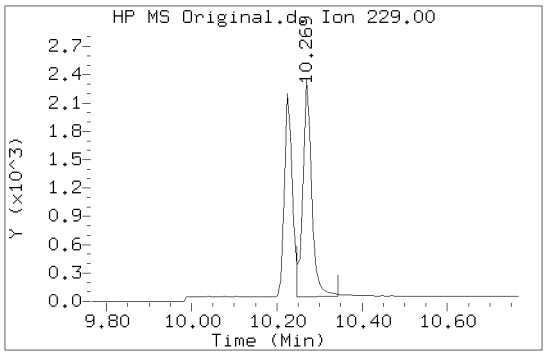
AFTER

MASS
226
AREA
4617
HEIGHT
3222
18-Dec-2023
10:16
linh
pham



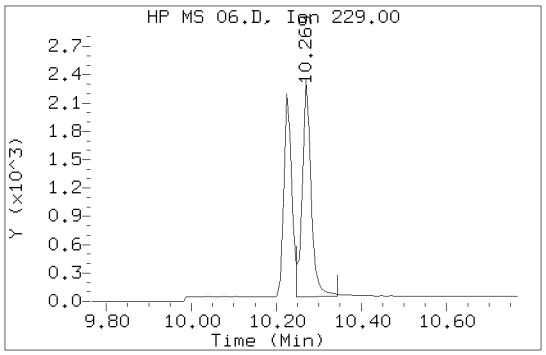
BEFORE

MASS
229
AREA
3338
HEIGHT
2296
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
3338
HEIGHT
2296
18-Dec-2023
10:16
linh
pham



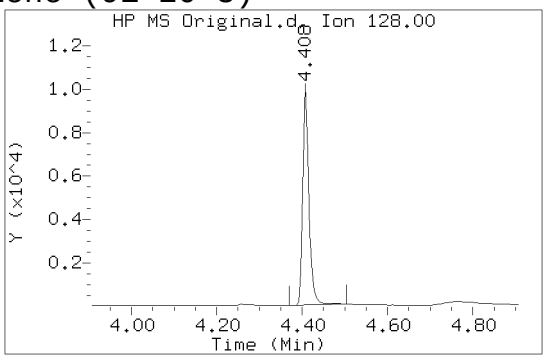
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Naphthalene (91-20-3)

Reason Code:

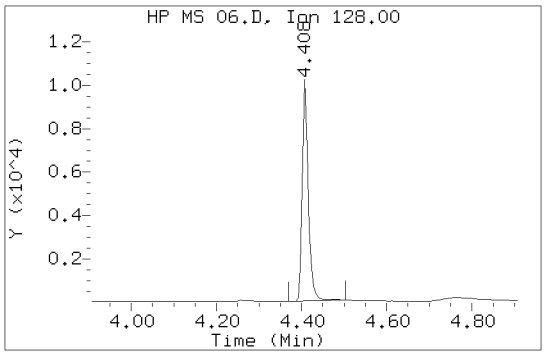
BEFORE

MASS
128
AREA
10183
HEIGHT
10187
18-Dec-2023
10:16
linh
pham



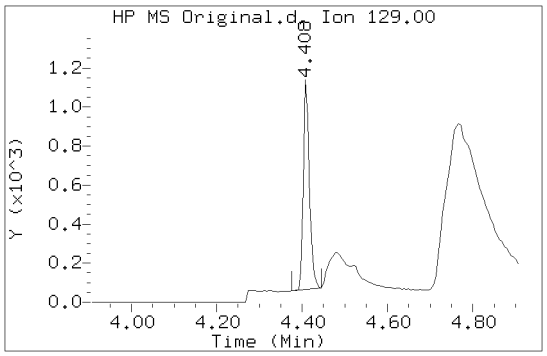
AFTER

MASS
128
AREA
10183
HEIGHT
10187
18-Dec-2023
10:16
linh
pham



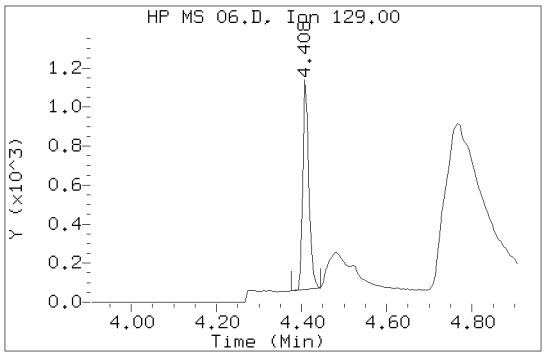
BEFORE

MASS
129
AREA
1072
HEIGHT
1074
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
1072
HEIGHT
1074
18-Dec-2023
10:16
linh
pham

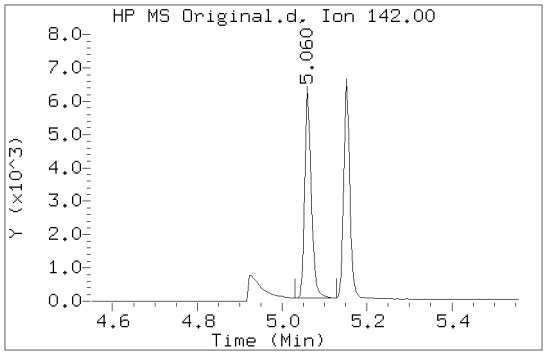


2-Methylnaphthalene (91-57-6)

Reason Code:

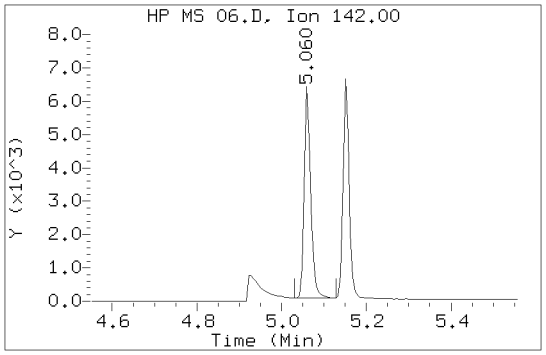
BEFORE

MASS
142
AREA
6820
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



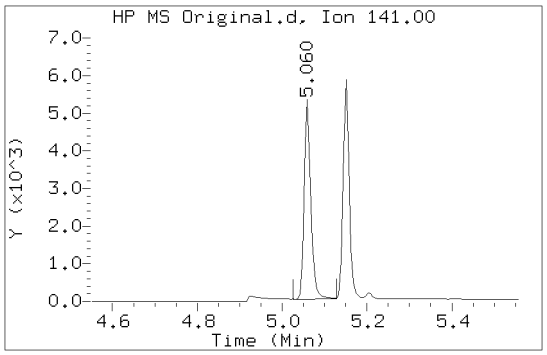
AFTER

MASS
142
AREA
6820
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



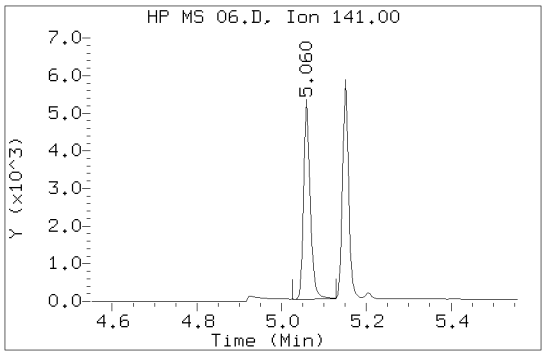
BEFORE

MASS
141
AREA
5900
HEIGHT
5323
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
5900
HEIGHT
5323
18-Dec-2023
10:16
linh
pham



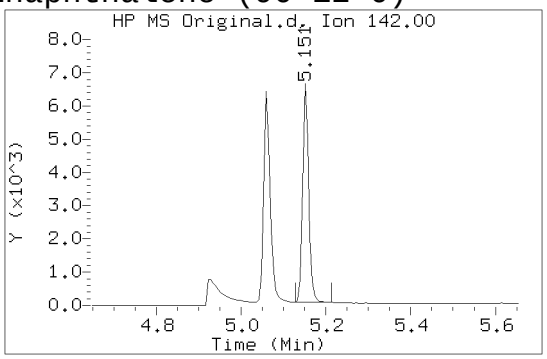
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

1-Methylnaphthalene (90-12-0)

Reason Code:

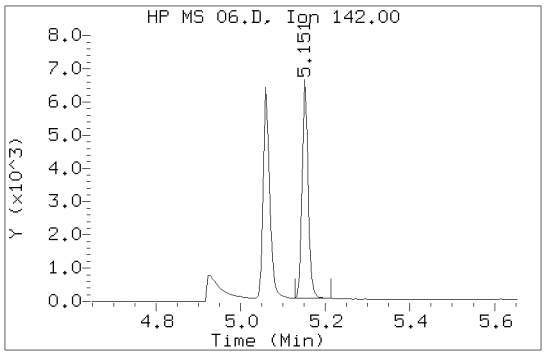
BEFORE

MASS
142
AREA
6389
HEIGHT
6576
18-Dec-2023
10:16
linh
pham



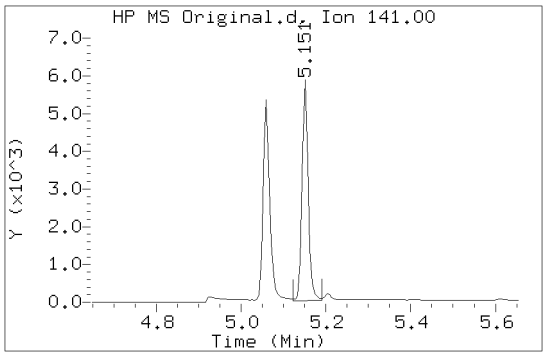
AFTER

MASS
142
AREA
6389
HEIGHT
6576
18-Dec-2023
10:16
linh
pham



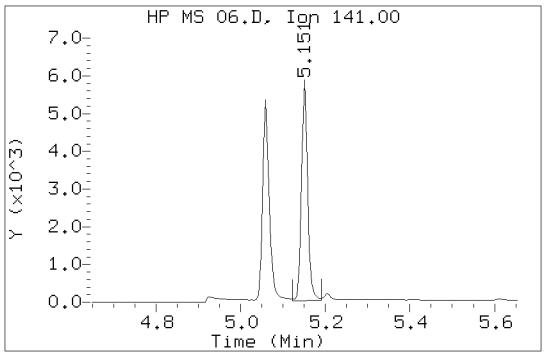
BEFORE

MASS
141
AREA
5805
HEIGHT
5845
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
5805
HEIGHT
5845
18-Dec-2023
10:16
linh
pham

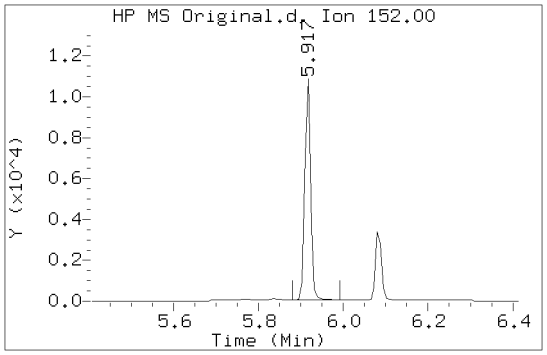


Acenaphthylene (208-96-8)

Reason Code:

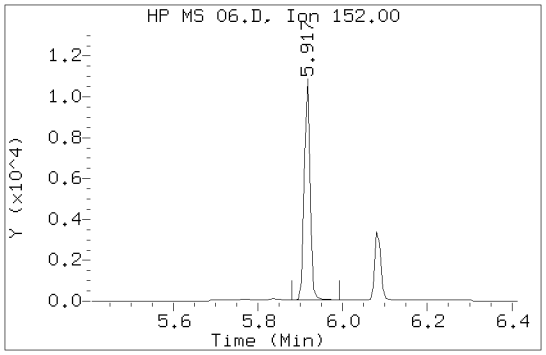
BEFORE

MASS
152
AREA
10270
HEIGHT
10813
18-Dec-2023
10:16
linh
pham



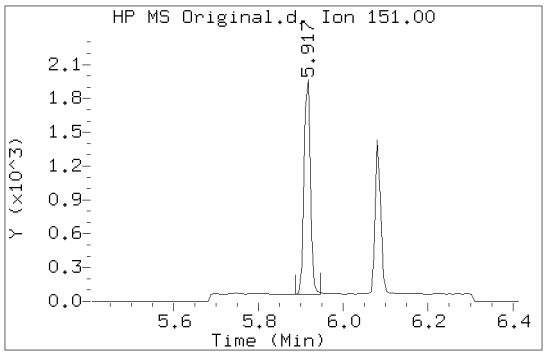
AFTER

MASS
152
AREA
10270
HEIGHT
10813
18-Dec-2023
10:16
linh
pham



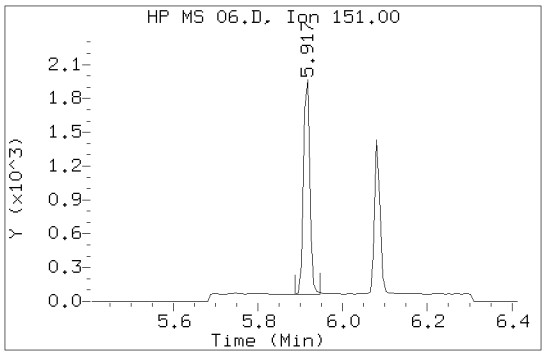
BEFORE

MASS
151
AREA
1989
HEIGHT
1904
18-Dec-2023
10:16
linh
pham



AFTER

MASS
151
AREA
1989
HEIGHT
1904
18-Dec-2023
10:16
linh
pham



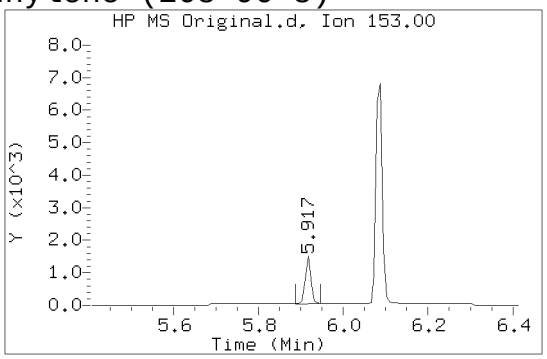
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Acenaphthylene (208-96-8)

Reason Code:

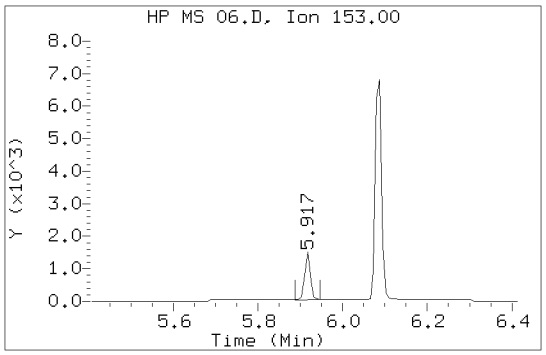
BEFORE

MASS
153
AREA
1343
HEIGHT
1458
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
1343
HEIGHT
1458
18-Dec-2023
10:16
linh
pham

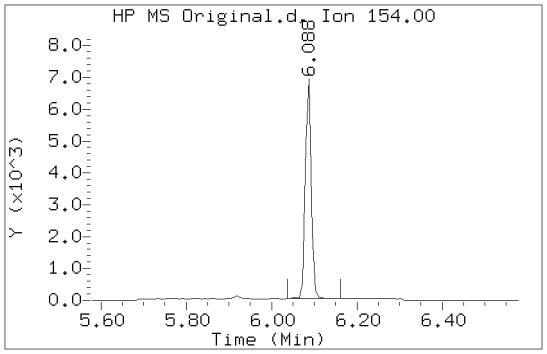


Acenaphthene (83-32-9)

Reason Code:

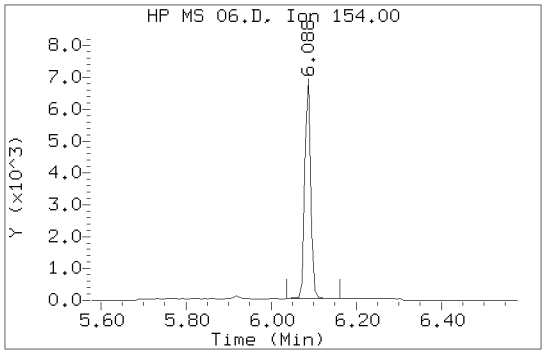
BEFORE

MASS
154
AREA
6572
HEIGHT
6906
18-Dec-2023
10:16
linh
pham



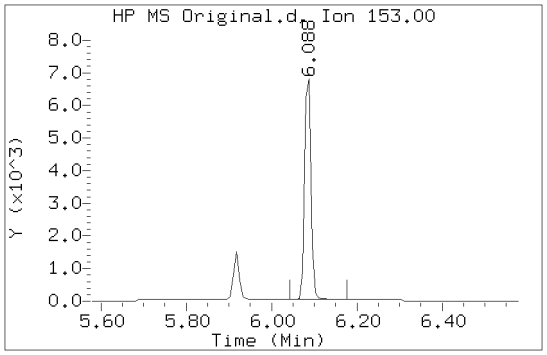
AFTER

MASS
154
AREA
6572
HEIGHT
6906
18-Dec-2023
10:16
linh
pham



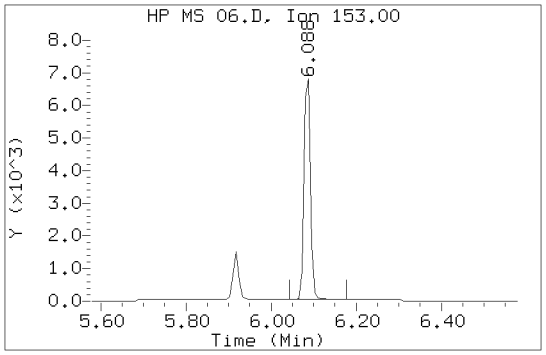
BEFORE

MASS
153
AREA
7004
HEIGHT
6753
18-Dec-2023
10:16
linh
pham



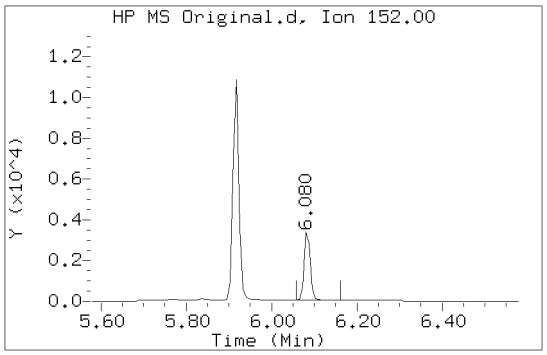
AFTER

MASS
153
AREA
7004
HEIGHT
6753
18-Dec-2023
10:16
linh
pham



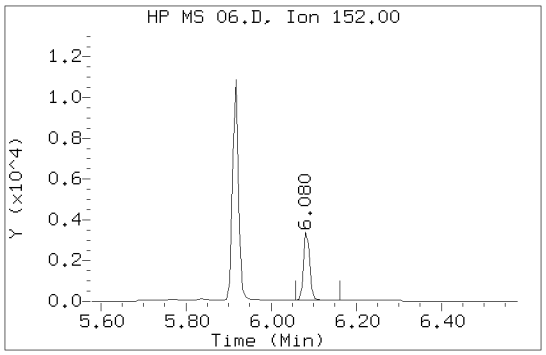
BEFORE

MASS
152
AREA
3311
HEIGHT
3323
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
3311
HEIGHT
3323
18-Dec-2023
10:16
linh
pham



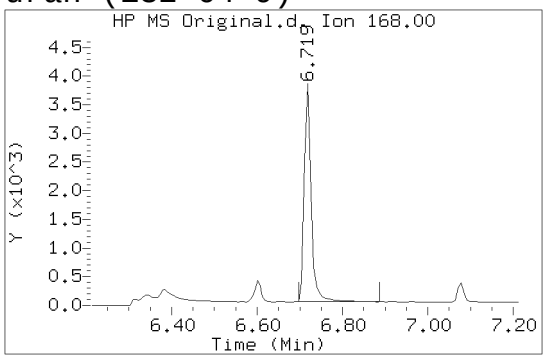
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Dibenzofuran (132-64-9)

Reason Code:

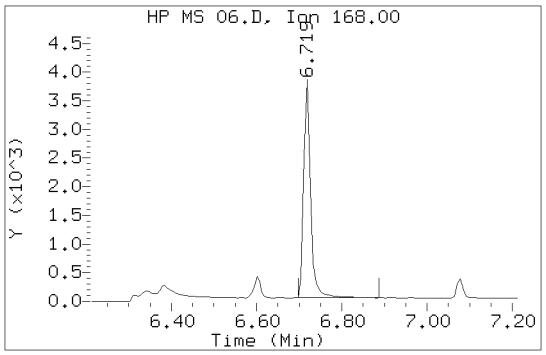
BEFORE

MASS
168
AREA
4160
HEIGHT
3800
18-Dec-2023
10:16
linh
pham



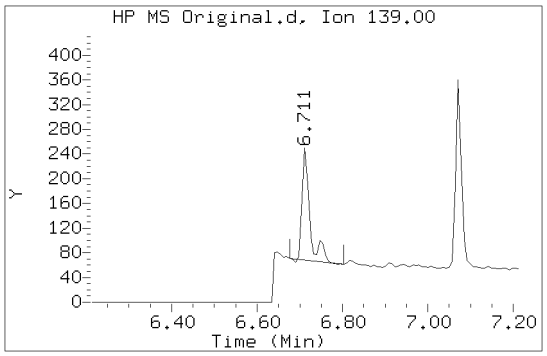
AFTER

MASS
168
AREA
4160
HEIGHT
3800
18-Dec-2023
10:16
linh
pham



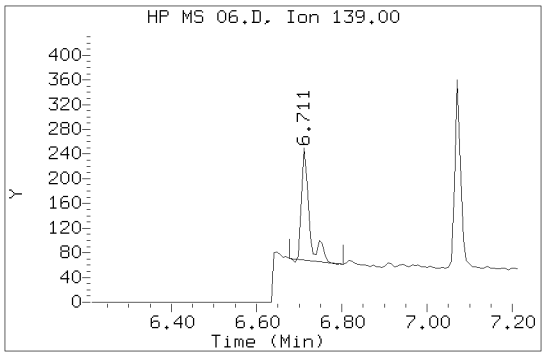
BEFORE

MASS
139
AREA
221
HEIGHT
181
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
221
HEIGHT
181
18-Dec-2023
10:16
linh
pham

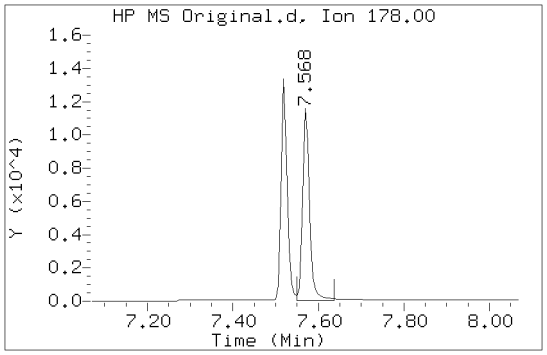


Anthracene (120-12-7)

Reason Code:

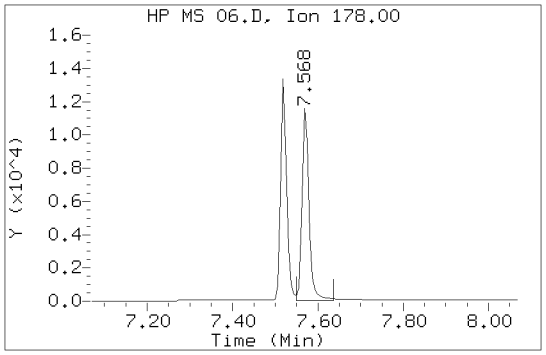
BEFORE

MASS
178
AREA
12948
HEIGHT
11565
18-Dec-2023
10:16
linh
pham



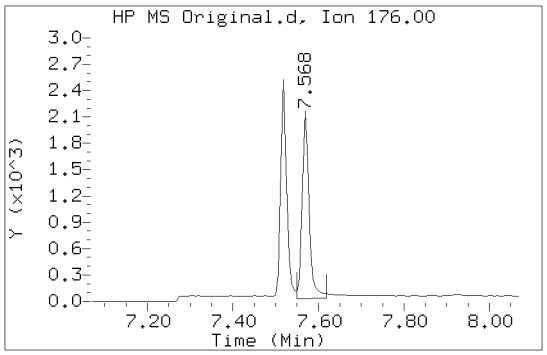
AFTER

MASS
178
AREA
12948
HEIGHT
11565
18-Dec-2023
10:16
linh
pham



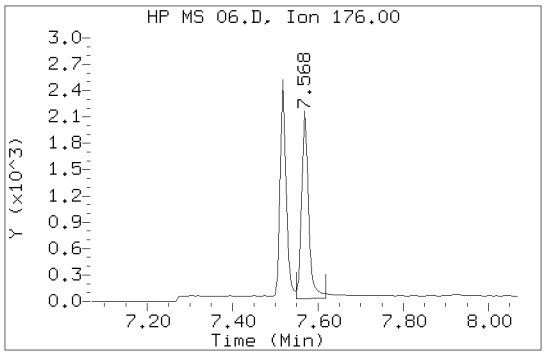
BEFORE

MASS
176
AREA
2374
HEIGHT
2139
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
2374
HEIGHT
2139
18-Dec-2023
10:16
linh
pham



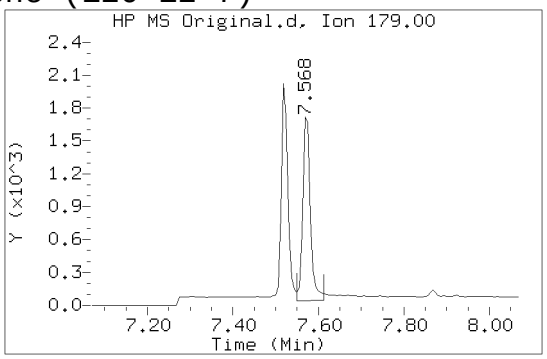
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Anthracene (120-12-7)

Reason Code:

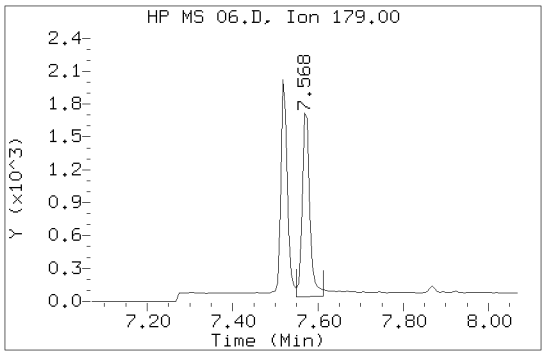
BEFORE

MASS
179
AREA
2067
HEIGHT
1678
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
2067
HEIGHT
1678
18-Dec-2023
10:16
linh
pham

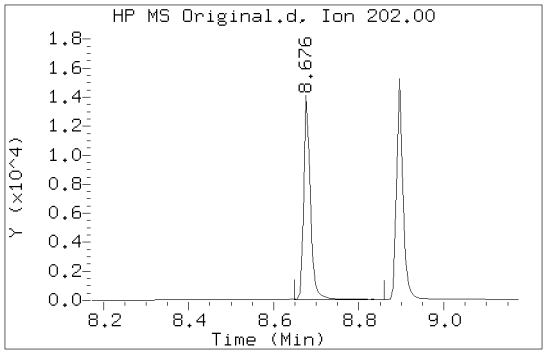


Fluoranthene (206-44-0)

Reason Code:

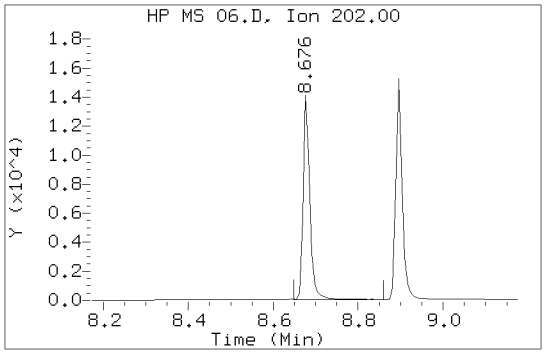
BEFORE

MASS
202
AREA
15163
HEIGHT
14061
18-Dec-2023
10:16
linh
pham



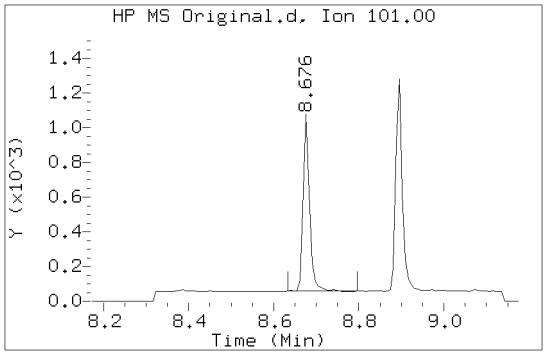
AFTER

MASS
202
AREA
15163
HEIGHT
14061
18-Dec-2023
10:16
linh
pham



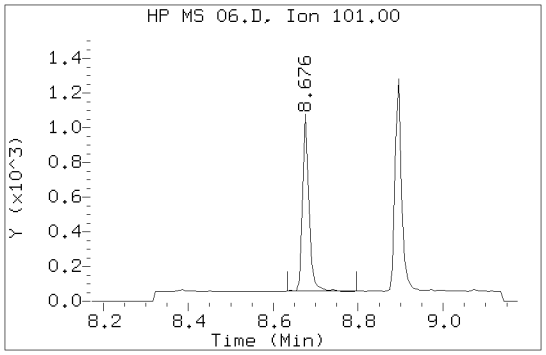
BEFORE

MASS
101
AREA
1063
HEIGHT
1018
18-Dec-2023
10:16
linh
pham



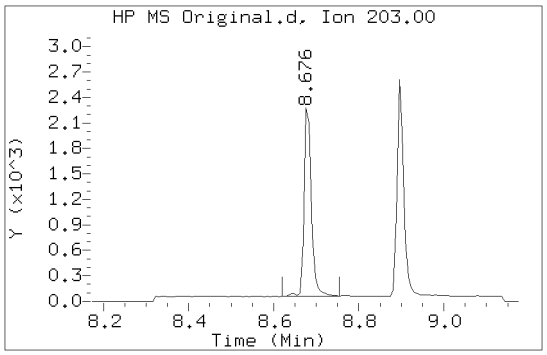
AFTER

MASS
101
AREA
1063
HEIGHT
1018
18-Dec-2023
10:16
linh
pham



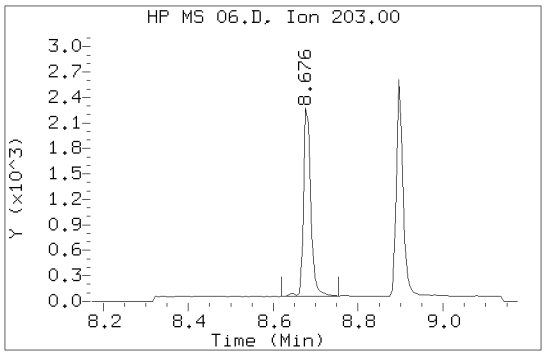
BEFORE

MASS
203
AREA
2620
HEIGHT
2220
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
2620
HEIGHT
2220
18-Dec-2023
10:16
linh
pham



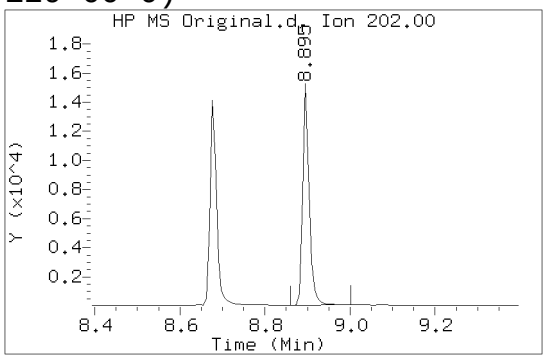
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Pyrene (129-00-0)

Reason Code:

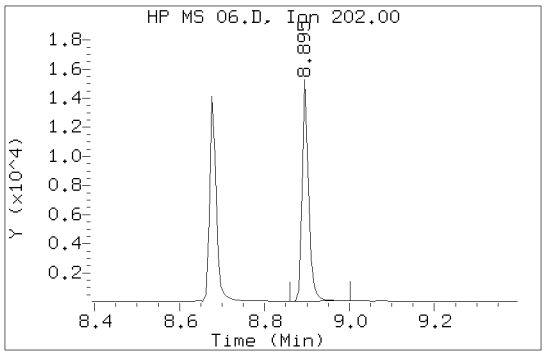
BEFORE

MASS
202
AREA
15971
HEIGHT
15202
18-Dec-2023
10:16
linh
pham



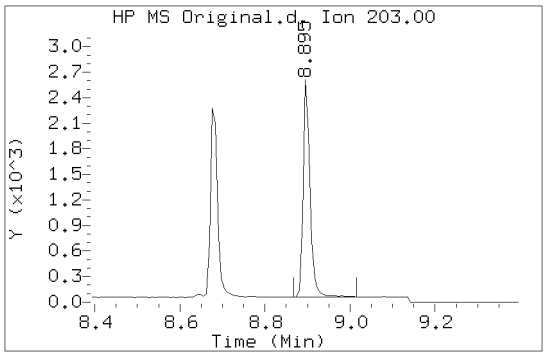
AFTER

MASS
202
AREA
15971
HEIGHT
15202
18-Dec-2023
10:16
linh
pham



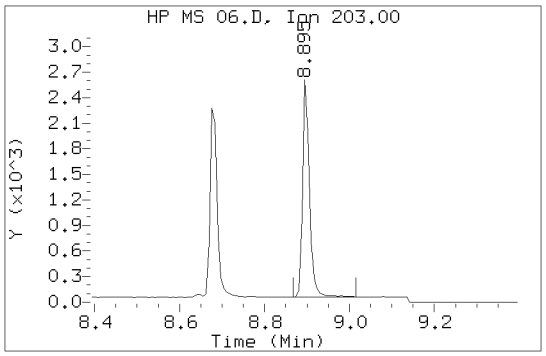
BEFORE

MASS
203
AREA
2799
HEIGHT
2547
18-Dec-2023
10:16
linh
pham



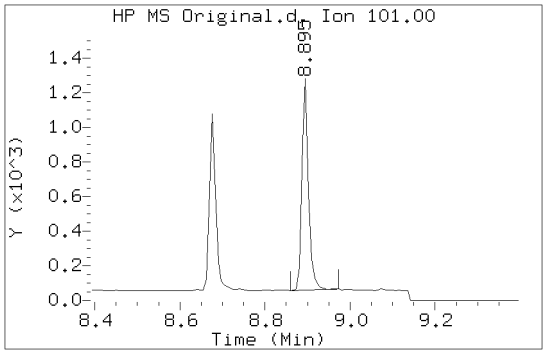
AFTER

MASS
203
AREA
2799
HEIGHT
2547
18-Dec-2023
10:16
linh
pham



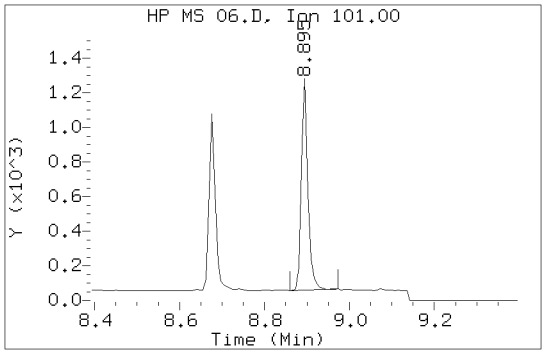
BEFORE

MASS
101
AREA
1305
HEIGHT
1223
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
1305
HEIGHT
1223
18-Dec-2023
10:16
linh
pham

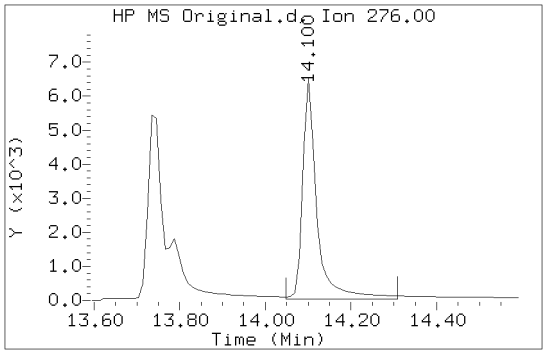


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

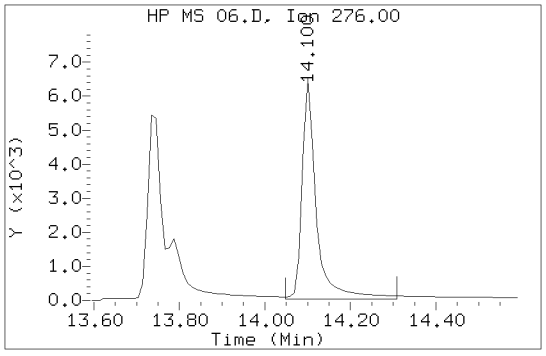
BEFORE

MASS
276
AREA
14984
HEIGHT
6473
18-Dec-2023
10:16
linh
pham



AFTER

MASS
276
AREA
14984
HEIGHT
6473
18-Dec-2023
10:16
linh
pham



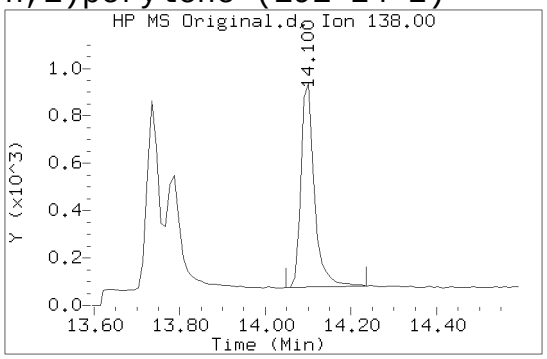
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

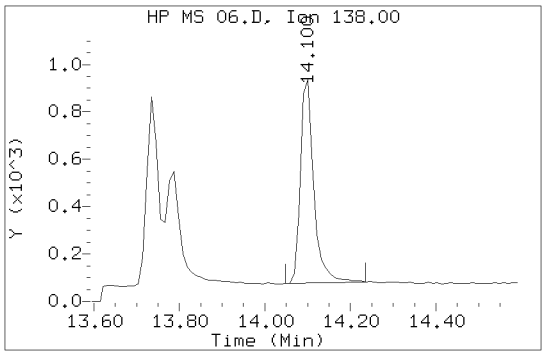
BEFORE

MASS
138
AREA
1867
HEIGHT
859
18-Dec-2023
10:16
linh
pham



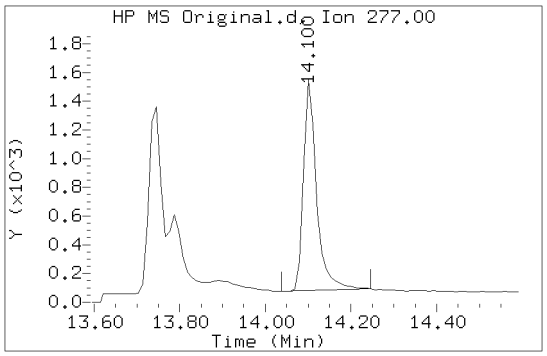
AFTER

MASS
138
AREA
1867
HEIGHT
859
18-Dec-2023
10:16
linh
pham



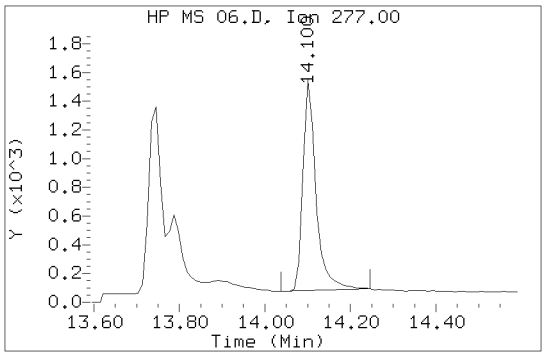
BEFORE

MASS
277
AREA
3106
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
3106
HEIGHT
1466
18-Dec-2023
10:16
linh
pham

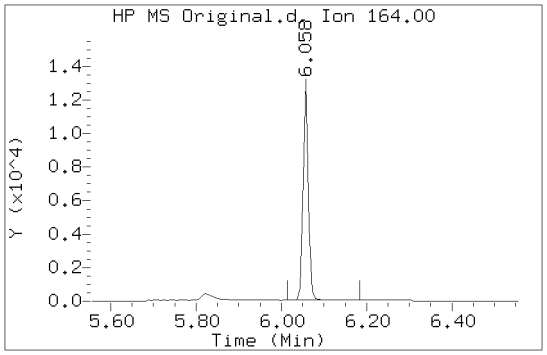


Acenaphthene-d10 (15067-26-2)

Reason Code:

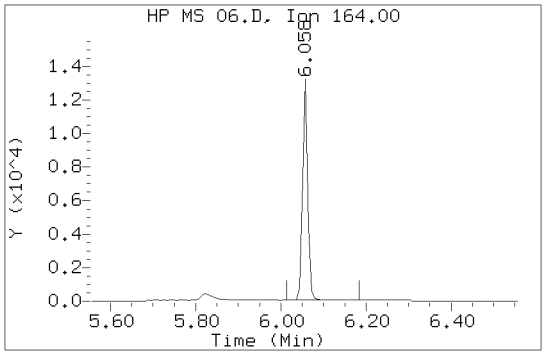
BEFORE

MASS
164
AREA
11683
HEIGHT
13197
18-Dec-2023
10:16
linh
pham



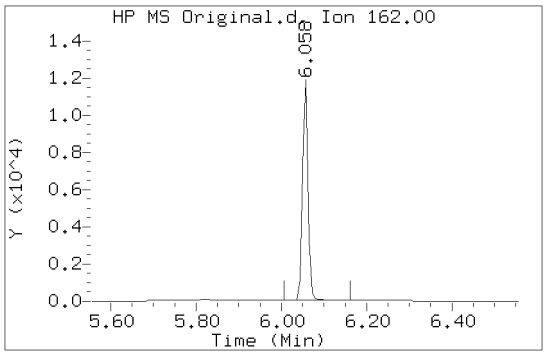
AFTER

MASS
164
AREA
11683
HEIGHT
13197
18-Dec-2023
10:16
linh
pham



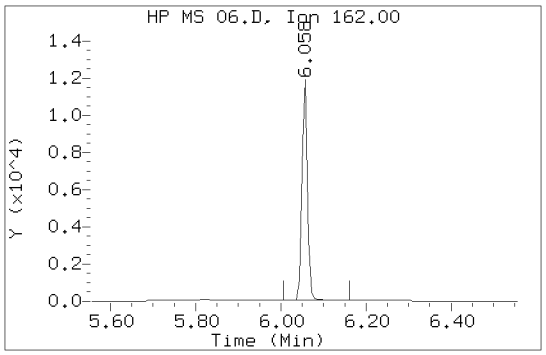
BEFORE

MASS
162
AREA
11274
HEIGHT
11862
18-Dec-2023
10:16
linh
pham



AFTER

MASS
162
AREA
11274
HEIGHT
11862
18-Dec-2023
10:16
linh
pham



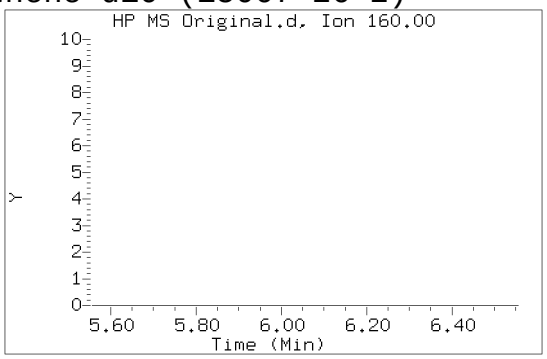
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Acenaphthene-d10 (15067-26-2)

Reason Code:

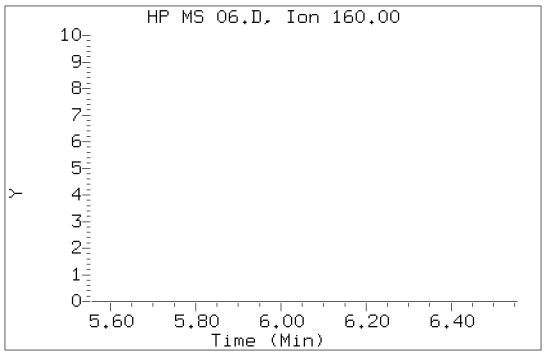
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

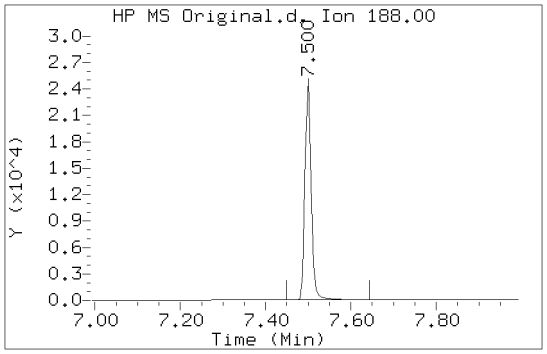


Phenanthrene-d10 (1517-22-2)

Reason Code:

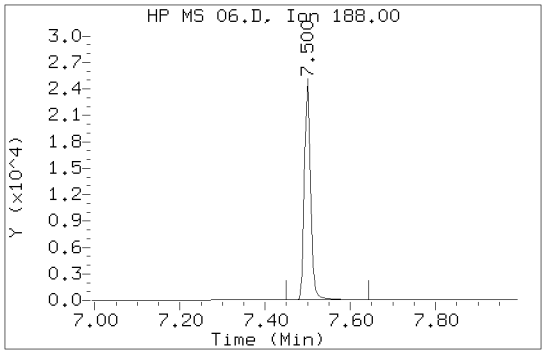
BEFORE

MASS
188
AREA
24303
HEIGHT
25107
18-Dec-2023
10:16
linh
pham



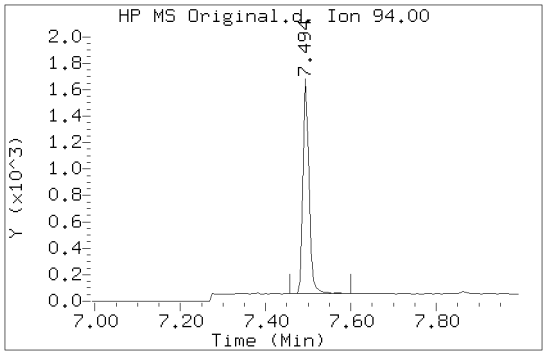
AFTER

MASS
188
AREA
24303
HEIGHT
25107
18-Dec-2023
10:16
linh
pham



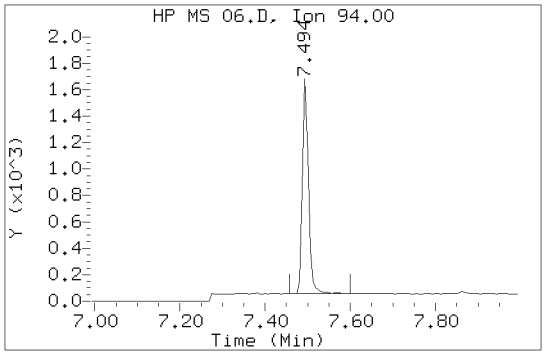
BEFORE

MASS
94
AREA
1558
HEIGHT
1625
18-Dec-2023
10:16
linh
pham



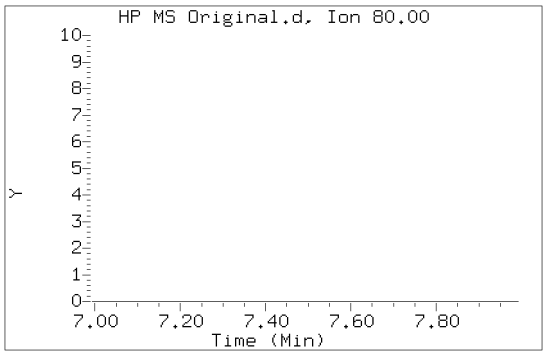
AFTER

MASS
94
AREA
1558
HEIGHT
1625
18-Dec-2023
10:16
linh
pham



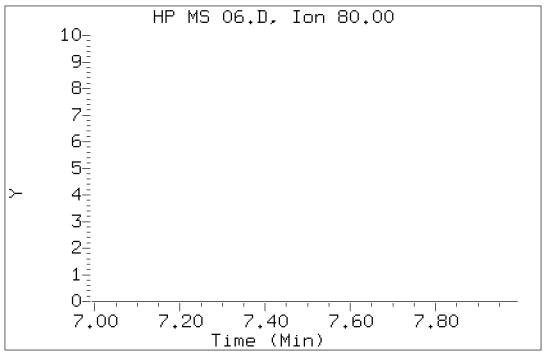
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



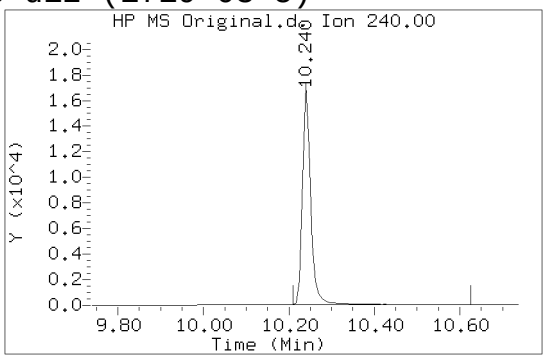
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Chrysene-d12 (1719-03-5)

Reason Code:

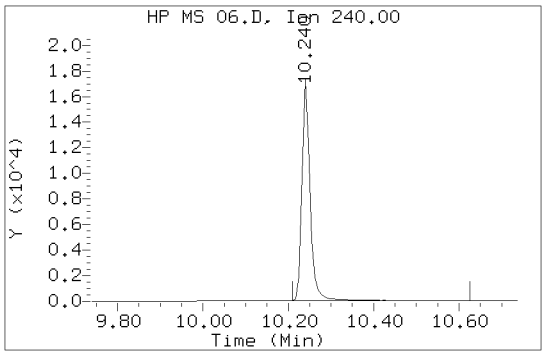
BEFORE

MASS
240
AREA
22699
HEIGHT
17265
18-Dec-2023
10:16
linh
pham



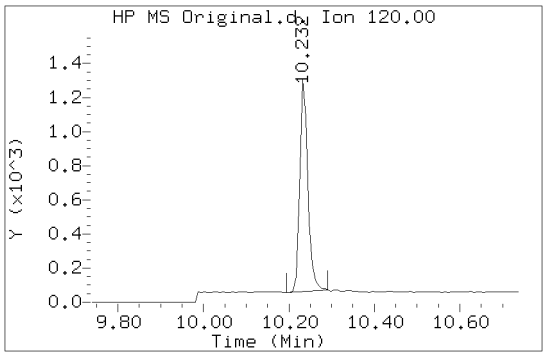
AFTER

MASS
240
AREA
22699
HEIGHT
17265
18-Dec-2023
10:16
linh
pham



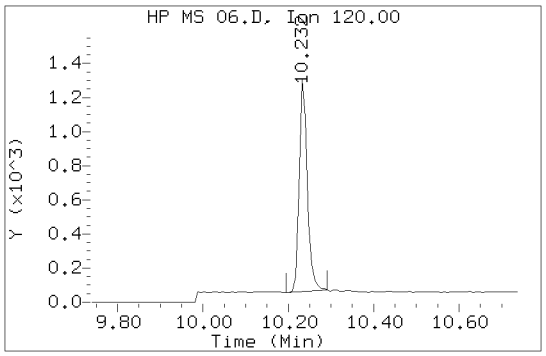
BEFORE

MASS
120
AREA
1613
HEIGHT
1240
18-Dec-2023
10:16
linh
pham



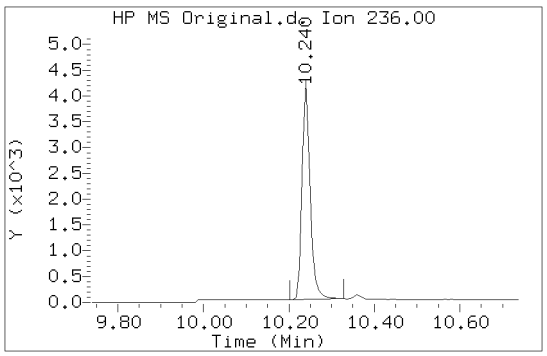
AFTER

MASS
120
AREA
1613
HEIGHT
1240
18-Dec-2023
10:16
linh
pham



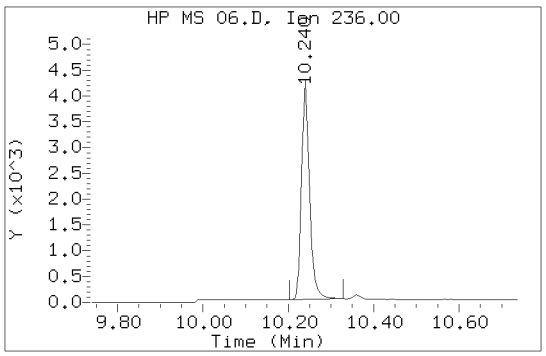
BEFORE

MASS
236
AREA
5480
HEIGHT
4241
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5480
HEIGHT
4241
18-Dec-2023
10:16
linh
pham

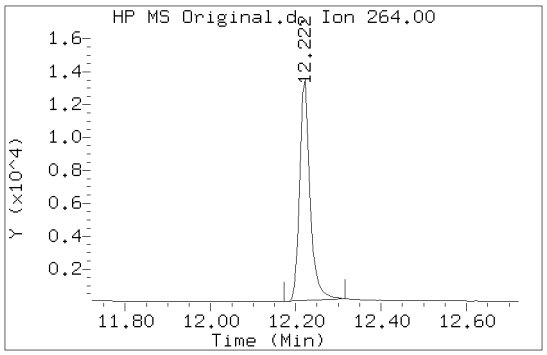


Perylene-d12 (1520-96-3)

Reason Code:

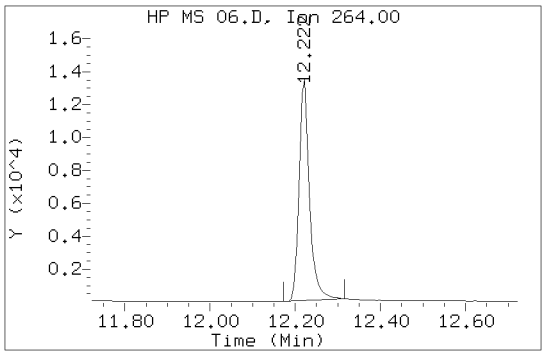
BEFORE

MASS
264
AREA
23087
HEIGHT
13412
18-Dec-2023
10:16
linh
pham



AFTER

MASS
264
AREA
23087
HEIGHT
13412
18-Dec-2023
10:16
linh
pham



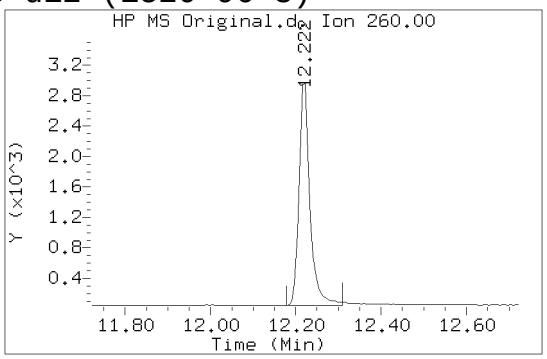
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Perylene-d12 (1520-96-3)

Reason Code:

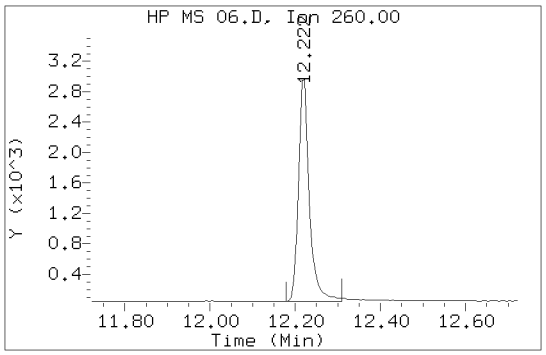
BEFORE

MASS
260
AREA
5258
HEIGHT
2908
18-Dec-2023
10:16
linh
pham



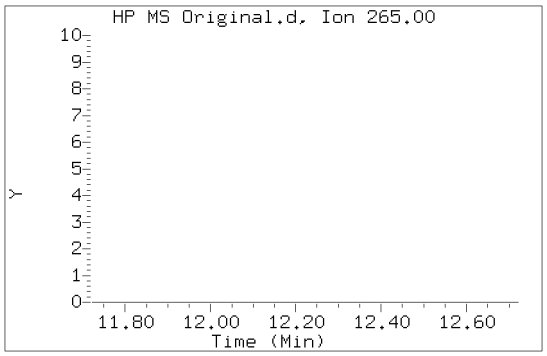
AFTER

MASS
260
AREA
5258
HEIGHT
2908
18-Dec-2023
10:16
linh
pham



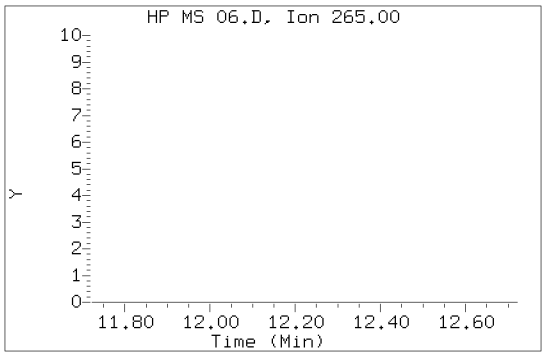
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

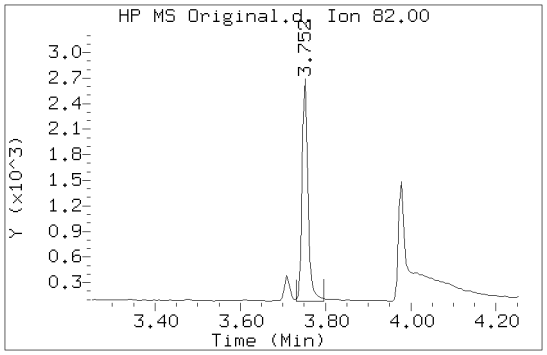


Nitrobenzene-d5 (4165-60-0)

Reason Code:

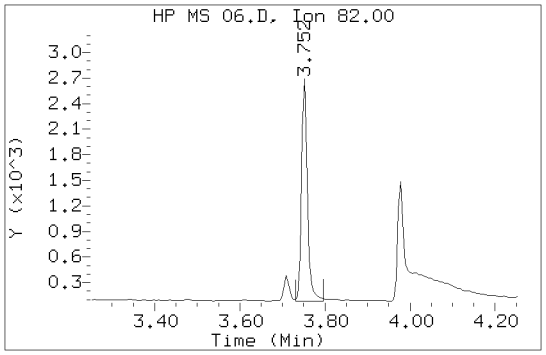
BEFORE

MASS
82
AREA
2458
HEIGHT
2608
18-Dec-2023
10:16
linh
pham



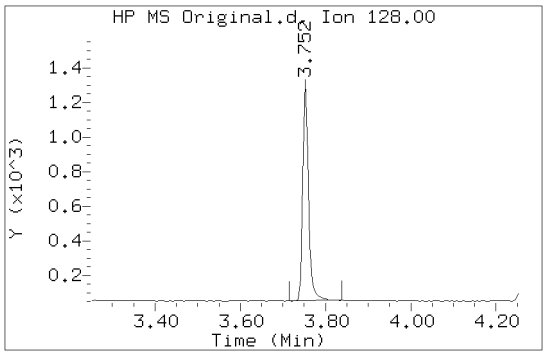
AFTER

MASS
82
AREA
2458
HEIGHT
2608
18-Dec-2023
10:16
linh
pham



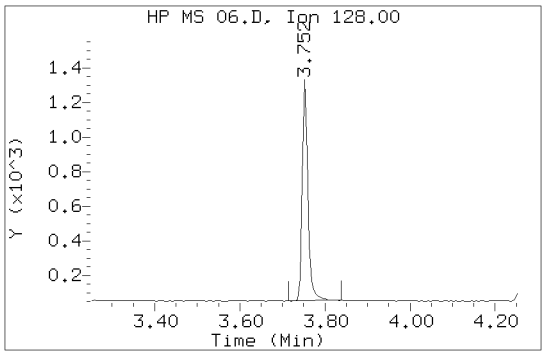
BEFORE

MASS
128
AREA
1148
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



AFTER

MASS
128
AREA
1148
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



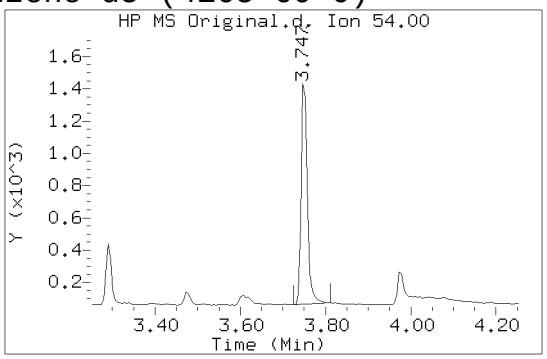
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Nitrobenzene-d5 (4165-60-0)

Reason Code:

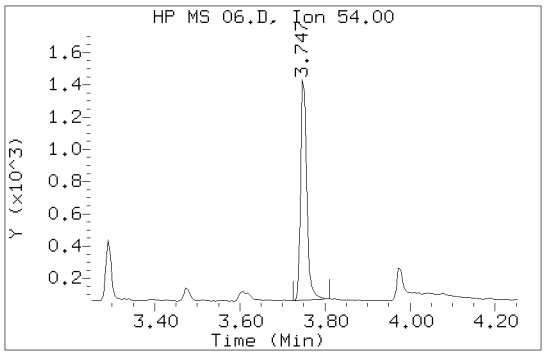
BEFORE

MASS
54
AREA
1358
HEIGHT
1367
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
1358
HEIGHT
1367
18-Dec-2023
10:16
linh
pham

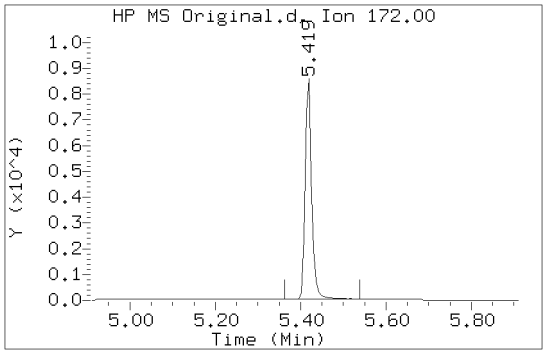


2-Fluorobiphenyl (321-60-8)

Reason Code:

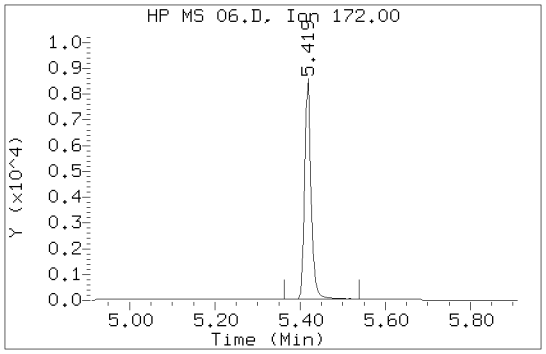
BEFORE

MASS
172
AREA
9114
HEIGHT
8547
18-Dec-2023
10:16
linh
pham



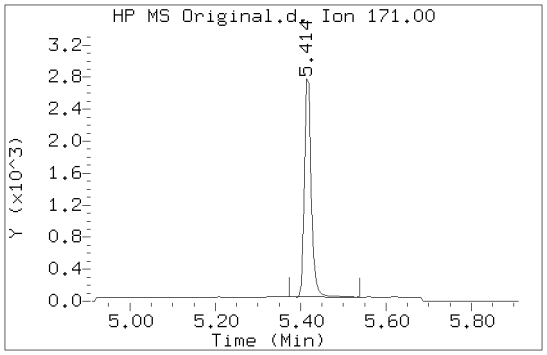
AFTER

MASS
172
AREA
9114
HEIGHT
8547
18-Dec-2023
10:16
linh
pham



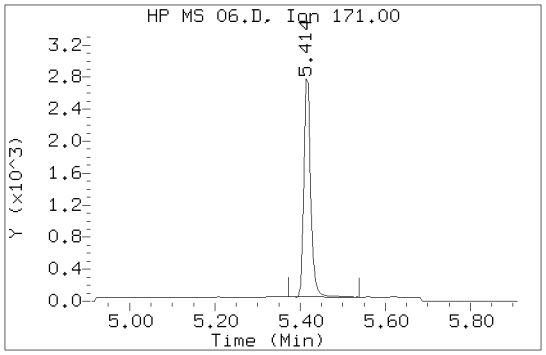
BEFORE

MASS
171
AREA
3093
HEIGHT
2724
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
3093
HEIGHT
2724
18-Dec-2023
10:16
linh
pham

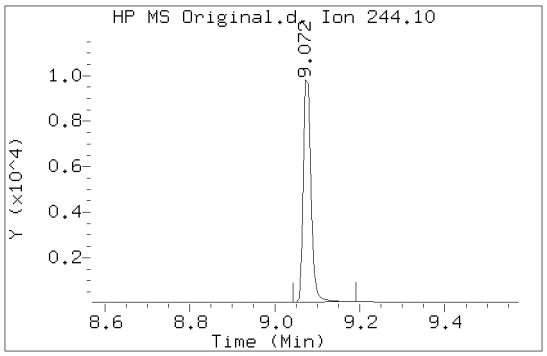


4-Terphenyl-d14 (1718-51-0)

Reason Code:

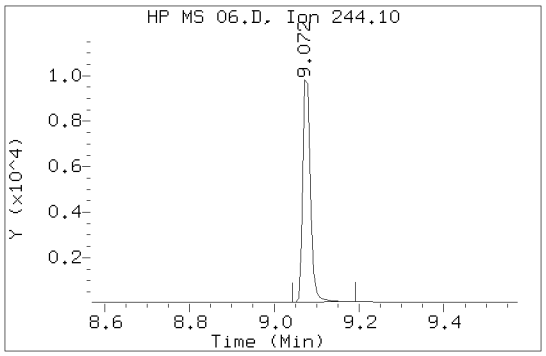
BEFORE

MASS
244.1
AREA
10988
HEIGHT
9765
18-Dec-2023
10:16
linh
pham



AFTER

MASS
244.1
AREA
10988
HEIGHT
9765
18-Dec-2023
10:16
linh
pham



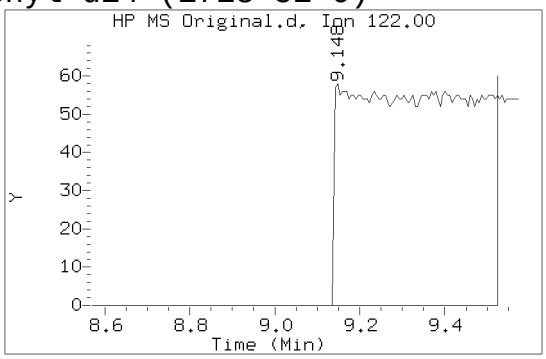
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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

4-Terphenyl-d14 (1718-51-0)

Reason Code:

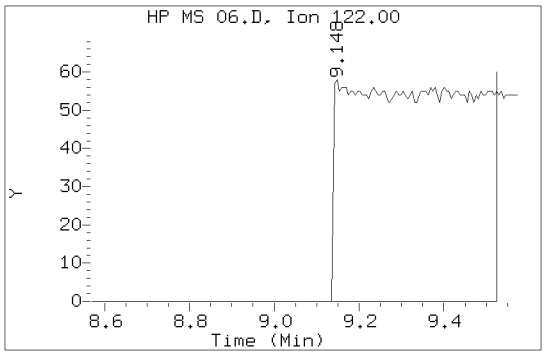
BEFORE

MASS
122
AREA
1270
HEIGHT
58
18-Dec-2023
10:16
linh
pham



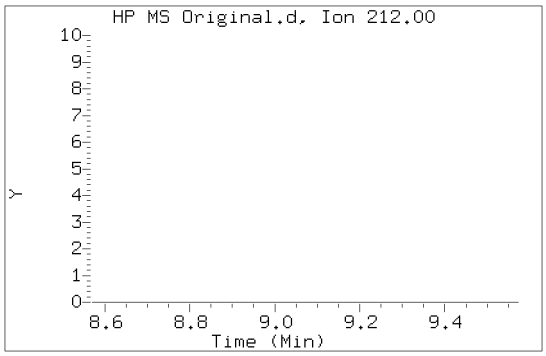
AFTER

MASS
122
AREA
1270
HEIGHT
58
18-Dec-2023
10:16
linh
pham



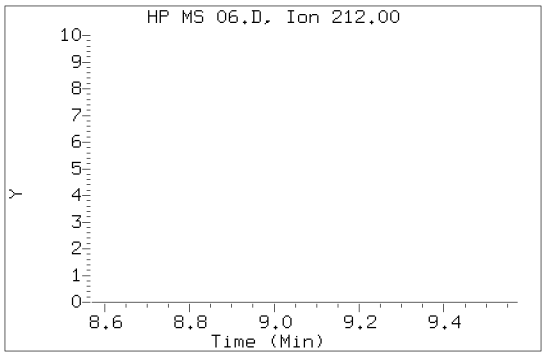
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
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Inj Date : 12-DEC-2023 14:59
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 14:39 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	19512	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	5270	0.10000	0.09795(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	11904	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	18822	0.10000	0.09929
* 126 Phenanthrene-d10	188	7.499	7.499	(1.000)	24679	0.10000	(M)
* 182 Chrysene-d12	240	10.239	10.239	(1.000)	22845	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.071	9.071	(0.886)	22359	0.10000	0.09638(M)
* 198 Perylene-d12	264	12.216	12.216	(1.000)	23969	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	21296	0.10000	0.09948(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	14233	0.10000	0.09942(M)
62 1-Methylnaphthalene	142	5.150	5.150	(1.173)	13318	0.10000	0.09970(M)
83 Acenaphthylene	152	5.917	5.917	(0.977)	21551	0.10000	0.09901
88 Acenaphthene	154	6.080	6.080	(1.004)	13603	0.10000	0.09912(M)
98 Fluorene	166	6.583	6.583	(1.087)	16702	0.10000	0.09899
92 Dibenzofuran	168	6.718	6.718	(1.109)	8792	0.10000	0.09881(M)
128 Phenanthrene	178	7.518	7.518	(1.002)	26664	0.10000	0.09871(M)
130 Anthracene	178	7.568	7.568	(1.009)	26722	0.10000	0.09927(M)
149 Fluoranthene	202	8.676	8.676	(1.157)	31373	0.10000	0.09765(M)
155 Pyrene	202	8.895	8.895	(0.869)	33015	0.10000	0.09940(M)

181 Benzo(a)Anthracene	228	10.224	10.224 (0.999)	30502	0.10000	0.09846
183 Chrysene	228	10.269	10.269 (1.003)	34289	0.10000	0.09930(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.672	11.672	(0.956)	28420	0.10000	0.09552
195 Benzo(k)fluoranthene	252	11.710	11.710	(0.959)	35938	0.10000	0.09982(M)
197 Benzo(a)pyrene	252	12.134	12.134	(0.993)	27584	0.10000	0.09565(M)
209 Indeno(1,2,3-cd)pyrene	276	13.735	13.735	(1.124)	33508	0.10000	0.09710(M)
210 Dibenzo(a,h)anthracene	278	13.787	13.787	(1.129)	28282	0.10000	0.09867(M)
212 Benzo(g,h,i)perylene	276	14.100	14.100	(1.154)	30097	0.10000	0.09765(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D

Date : 12-DEC-2023 14:59

Client ID: PAHSIM-0.10

Instrument: SV6.i

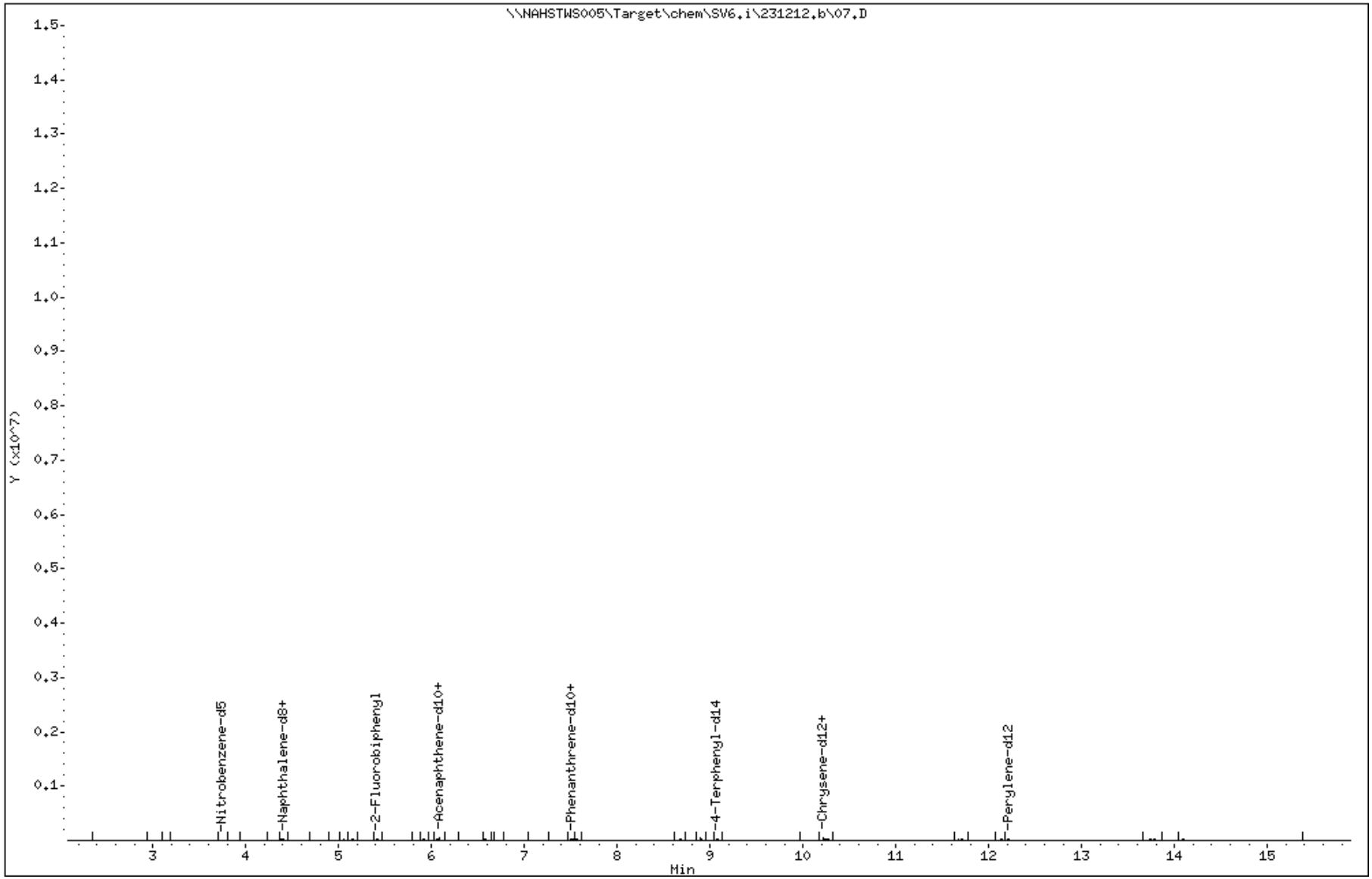
Sample Info: PAHSIM-0.10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



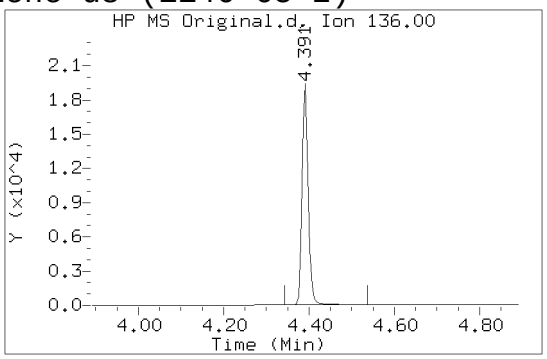
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

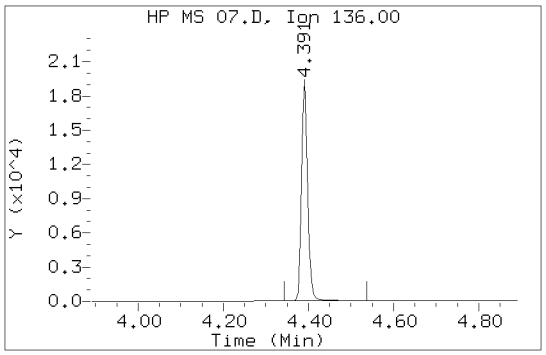
BEFORE

MASS
136
AREA
19512
HEIGHT
19368
18-Dec-2023
10:16
linh
pham



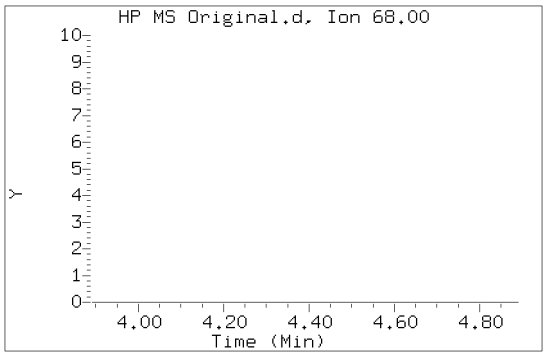
AFTER

MASS
136
AREA
19512
HEIGHT
19368
18-Dec-2023
10:16
linh
pham



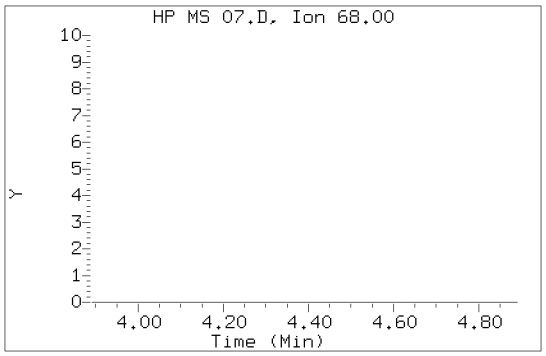
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

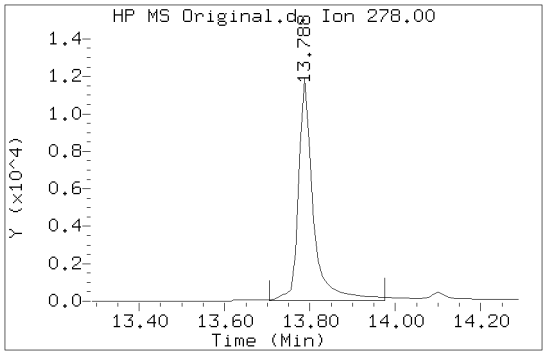


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

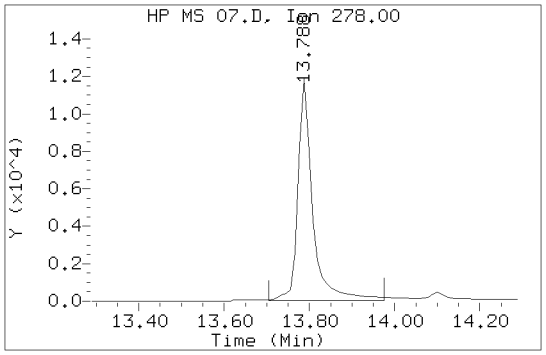
BEFORE

MASS
278
AREA
28282
HEIGHT
11824
18-Dec-2023
10:16
linh
pham



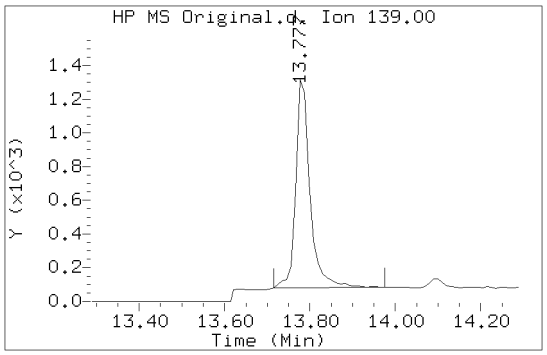
AFTER

MASS
278
AREA
28282
HEIGHT
11824
18-Dec-2023
10:16
linh
pham



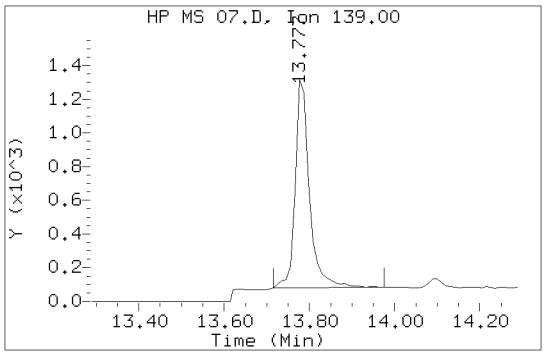
BEFORE

MASS
139
AREA
2840
HEIGHT
1234
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
2840
HEIGHT
1234
18-Dec-2023
10:16
linh
pham



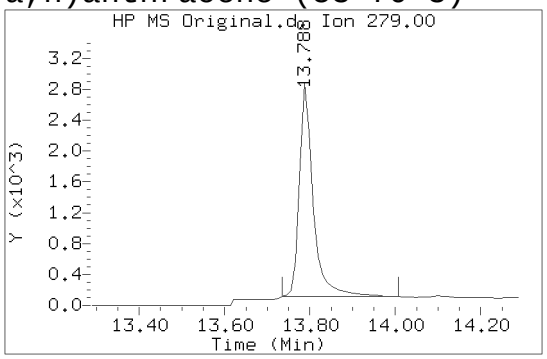
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

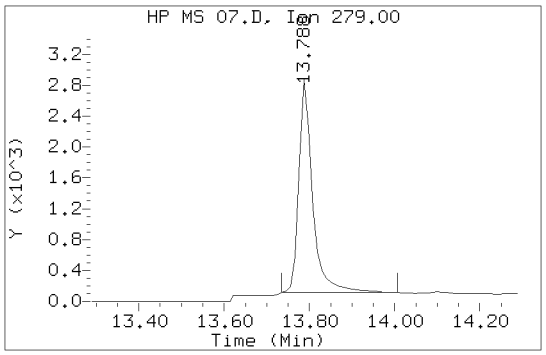
BEFORE

MASS
279
AREA
6189
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
6189
HEIGHT
2758
18-Dec-2023
10:16
linh
pham

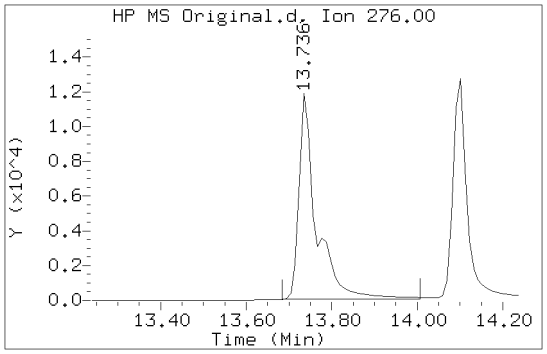


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

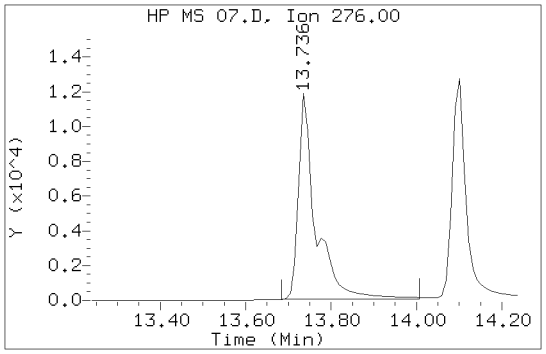
BEFORE

MASS
276
AREA
33508
HEIGHT
11840
18-Dec-2023
10:16
linh
pham



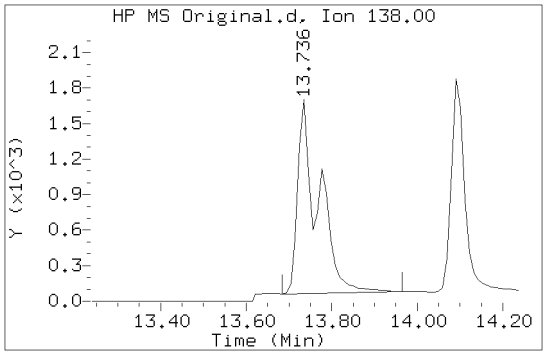
AFTER

MASS
276
AREA
33508
HEIGHT
11840
18-Dec-2023
10:16
linh
pham



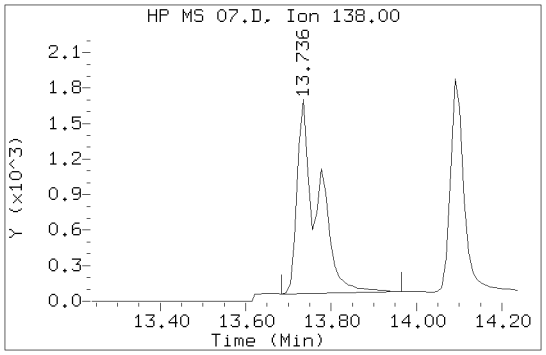
BEFORE

MASS
138
AREA
5471
HEIGHT
1640
18-Dec-2023
10:16
linh
pham



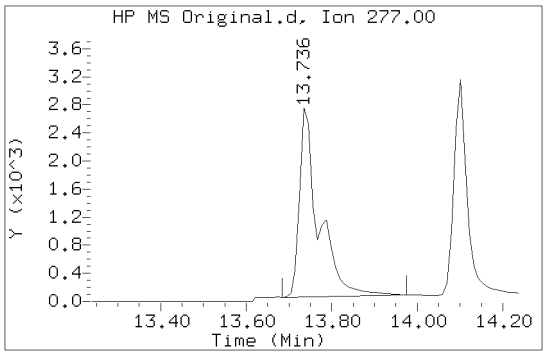
AFTER

MASS
138
AREA
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HEIGHT
1640
18-Dec-2023
10:16
linh
pham



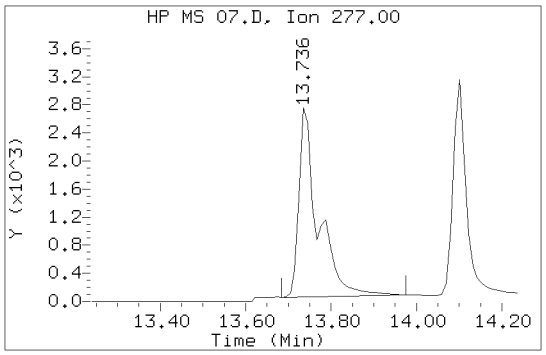
BEFORE

MASS
277
AREA
8388
HEIGHT
2697
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
8388
HEIGHT
2697
18-Dec-2023
10:16
linh
pham



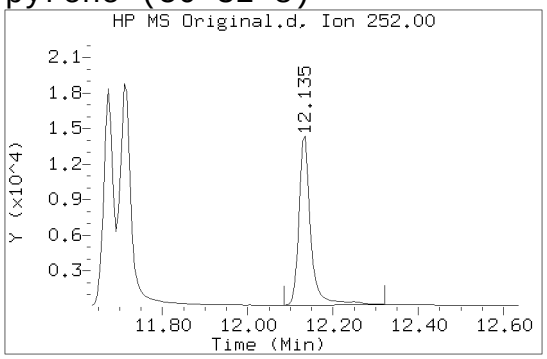
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(a)pyrene (50-32-8)

Reason Code:

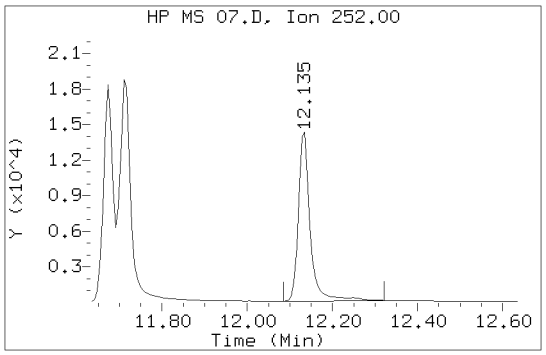
BEFORE

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252
AREA
27584
HEIGHT
14228
18-Dec-2023
10:16
linh
pham



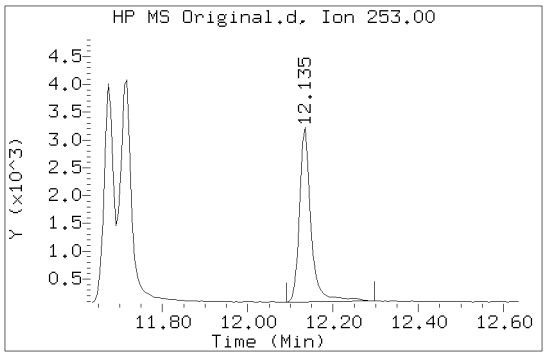
AFTER

MASS
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27584
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10:16
linh
pham



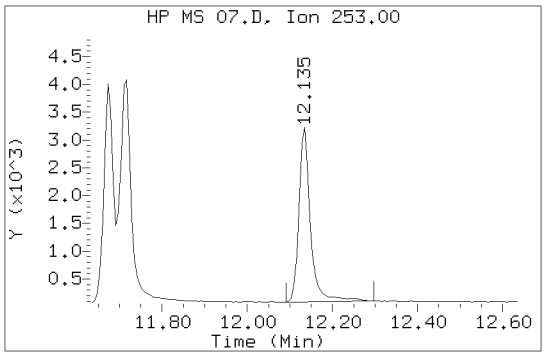
BEFORE

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5979
HEIGHT
3142
18-Dec-2023
10:16
linh
pham



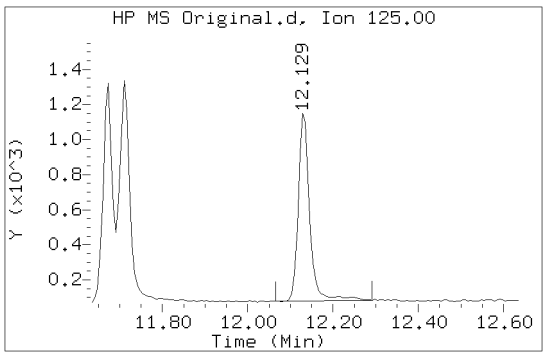
AFTER

MASS
253
AREA
5979
HEIGHT
3142
18-Dec-2023
10:16
linh
pham



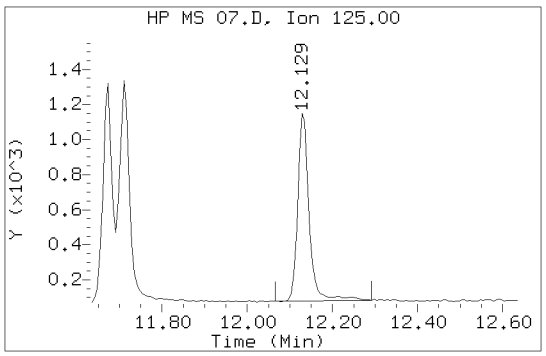
BEFORE

MASS
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AREA
2024
HEIGHT
1072
18-Dec-2023
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linh
pham



AFTER

MASS
125
AREA
2024
HEIGHT
1072
18-Dec-2023
10:16
linh
pham

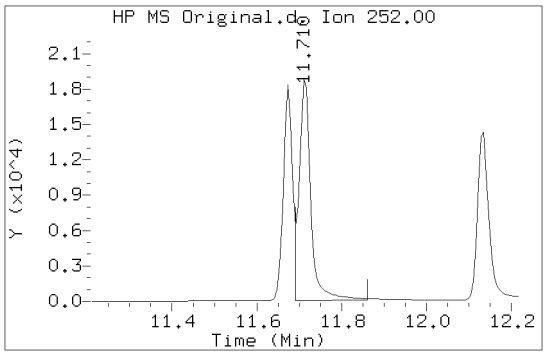


Benzo(k)fluoranthene (207-08-9)

Reason Code:

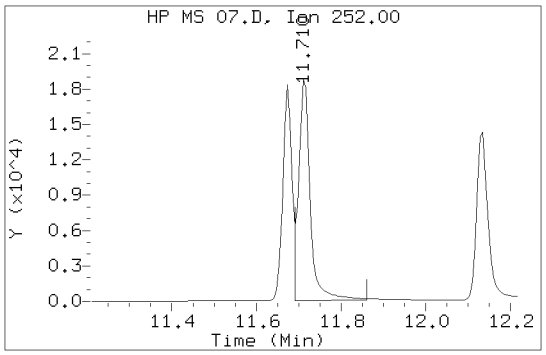
BEFORE

MASS
252
AREA
35938
HEIGHT
18711
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
35938
HEIGHT
18711
18-Dec-2023
10:16
linh
pham



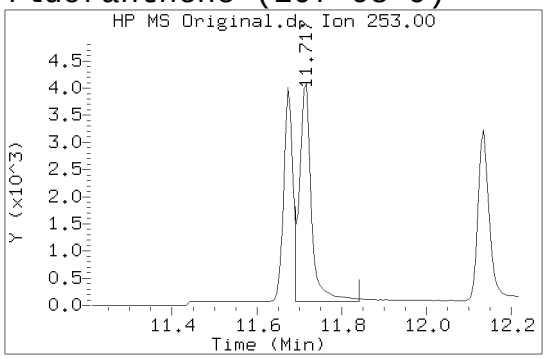
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(k)fluoranthene (207-08-9)

Reason Code:

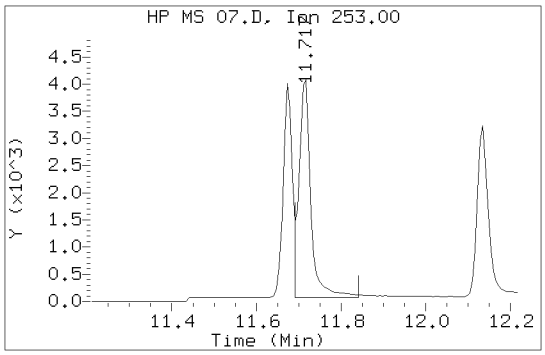
BEFORE

MASS
253
AREA
7883
HEIGHT
4006
18-Dec-2023
10:16
linh
pham



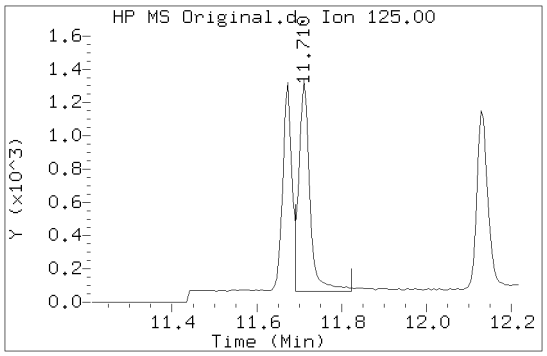
AFTER

MASS
253
AREA
7883
HEIGHT
4006
18-Dec-2023
10:16
linh
pham



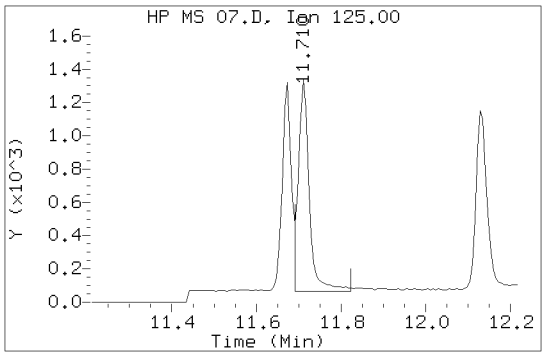
BEFORE

MASS
125
AREA
2290
HEIGHT
1271
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2290
HEIGHT
1271
18-Dec-2023
10:16
linh
pham

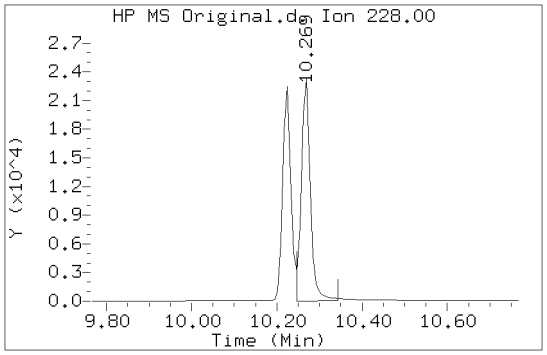


Chrysene (218-01-9)

Reason Code:

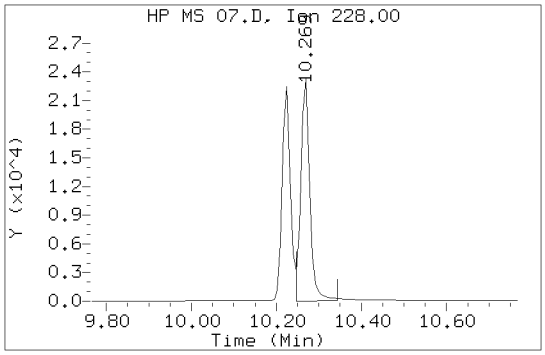
BEFORE

MASS
228
AREA
34289
HEIGHT
23251
18-Dec-2023
10:16
linh
pham



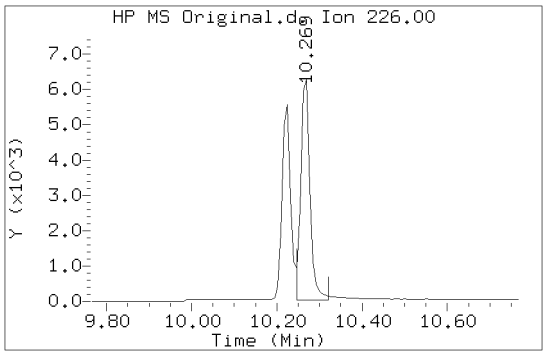
AFTER

MASS
228
AREA
34289
HEIGHT
23251
18-Dec-2023
10:16
linh
pham



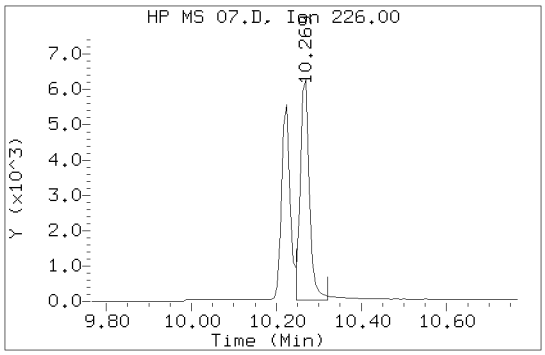
BEFORE

MASS
226
AREA
9345
HEIGHT
6231
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
9345
HEIGHT
6231
18-Dec-2023
10:16
linh
pham



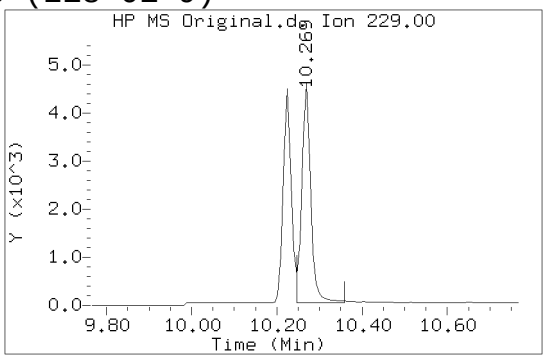
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Chrysene (218-01-9)

Reason Code:

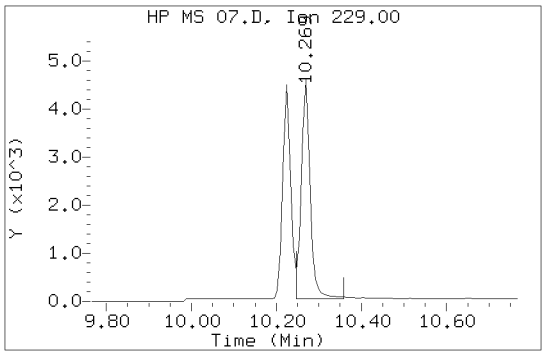
BEFORE

MASS
229
AREA
6617
HEIGHT
4549
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
6617
HEIGHT
4549
18-Dec-2023
10:16
linh
pham

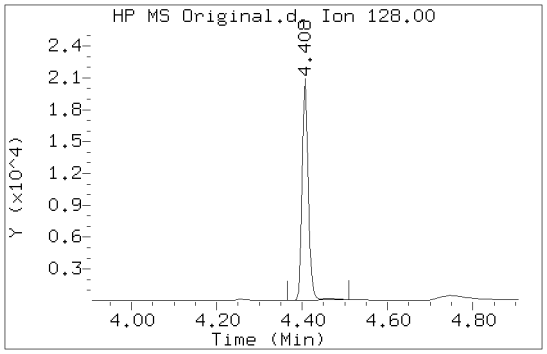


Naphthalene (91-20-3)

Reason Code:

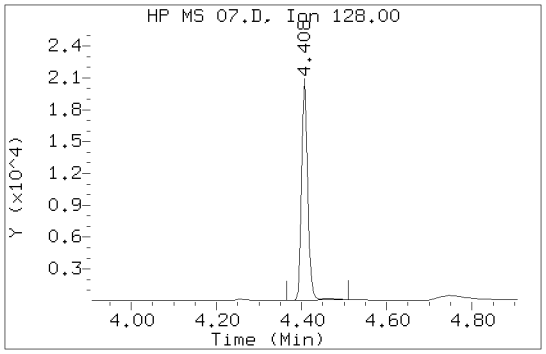
BEFORE

MASS
128
AREA
21296
HEIGHT
20843
18-Dec-2023
10:16
linh
pham



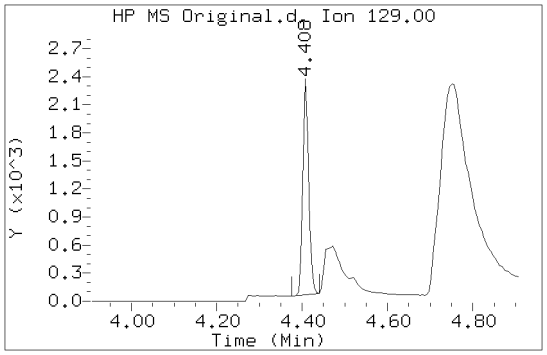
AFTER

MASS
128
AREA
21296
HEIGHT
20843
18-Dec-2023
10:16
linh
pham



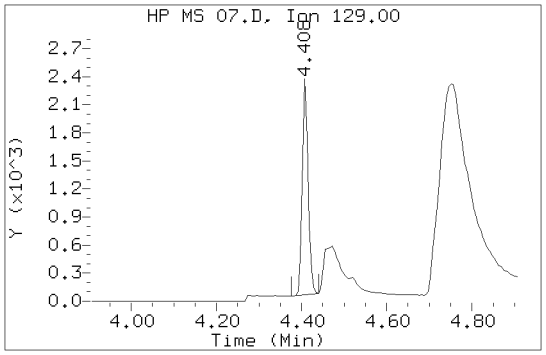
BEFORE

MASS
129
AREA
2240
HEIGHT
2307
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
2240
HEIGHT
2307
18-Dec-2023
10:16
linh
pham

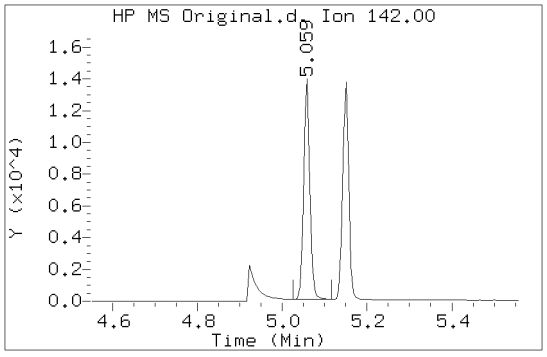


2-Methylnaphthalene (91-57-6)

Reason Code:

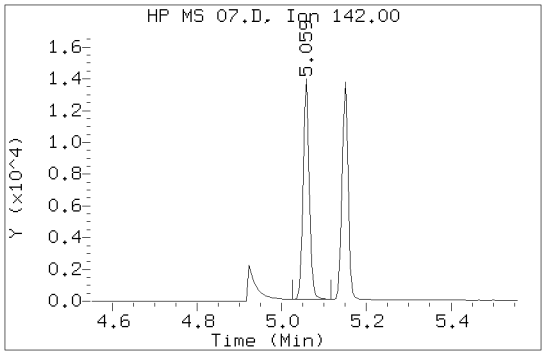
BEFORE

MASS
142
AREA
14233
HEIGHT
13888
18-Dec-2023
10:16
linh
pham



AFTER

MASS
142
AREA
14233
HEIGHT
13888
18-Dec-2023
10:16
linh
pham



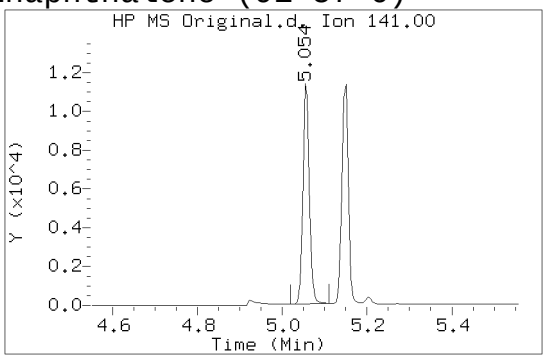
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

2-Methylnaphthalene (91-57-6)

Reason Code:

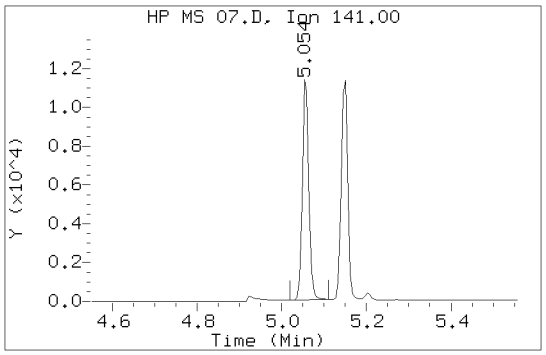
BEFORE

MASS
141
AREA
12052
HEIGHT
11352
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
12052
HEIGHT
11352
18-Dec-2023
10:16
linh
pham

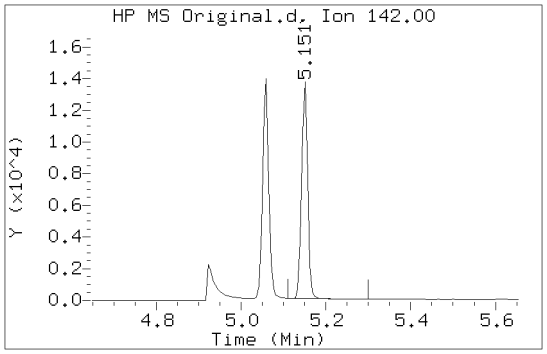


1-Methylnaphthalene (90-12-0)

Reason Code:

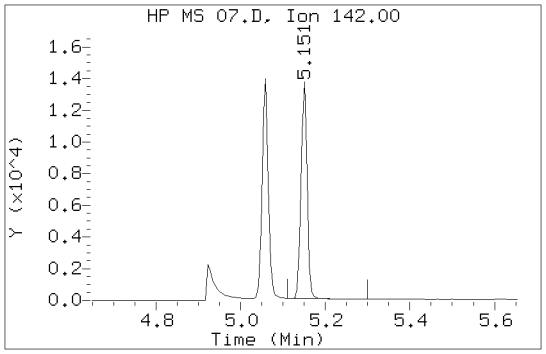
BEFORE

MASS
142
AREA
13318
HEIGHT
13673
18-Dec-2023
10:16
linh
pham



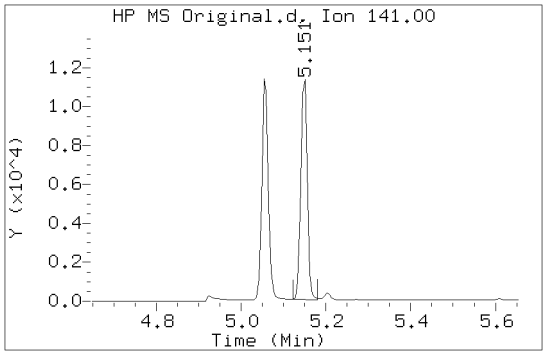
AFTER

MASS
142
AREA
13318
HEIGHT
13673
18-Dec-2023
10:16
linh
pham



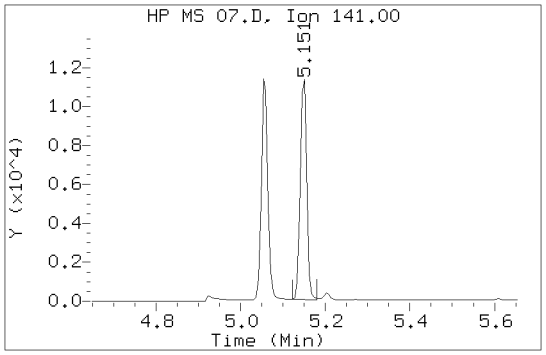
BEFORE

MASS
141
AREA
11830
HEIGHT
11336
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
11830
HEIGHT
11336
18-Dec-2023
10:16
linh
pham

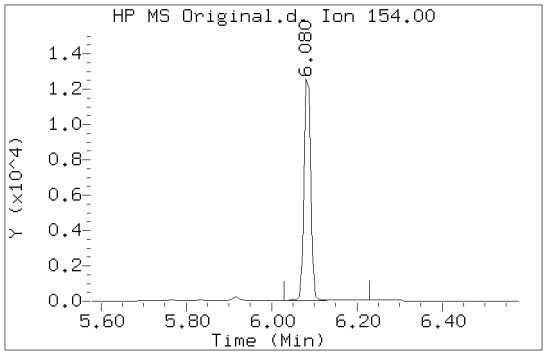


Acenaphthene (83-32-9)

Reason Code:

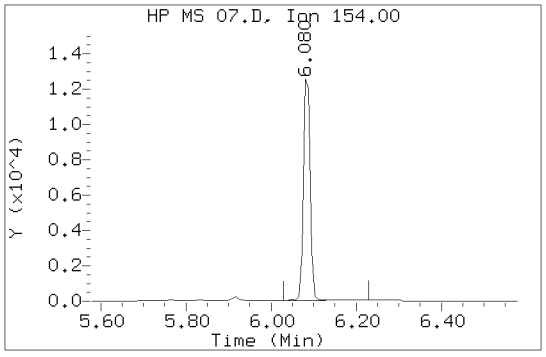
BEFORE

MASS
154
AREA
13603
HEIGHT
12524
18-Dec-2023
10:16
linh
pham



AFTER

MASS
154
AREA
13603
HEIGHT
12524
18-Dec-2023
10:16
linh
pham



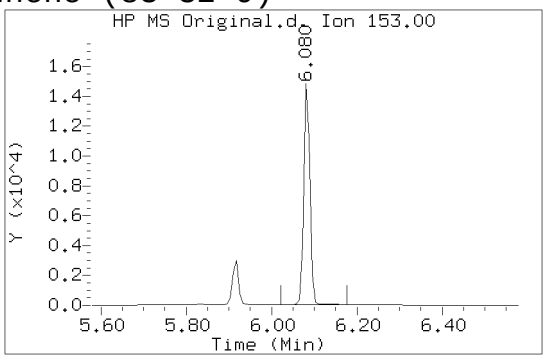
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Acenaphthene (83-32-9)

Reason Code:

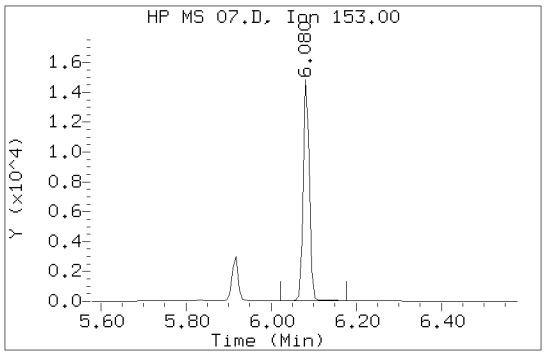
BEFORE

MASS
153
AREA
14490
HEIGHT
14790
18-Dec-2023
10:16
linh
pham



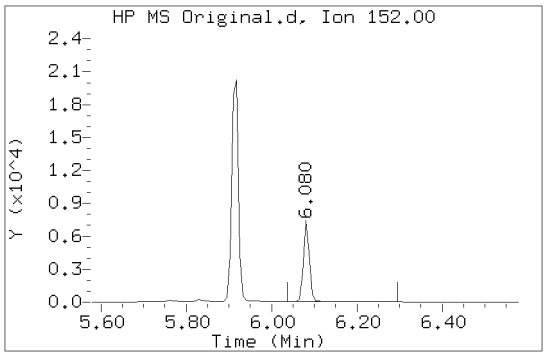
AFTER

MASS
153
AREA
14490
HEIGHT
14790
18-Dec-2023
10:16
linh
pham



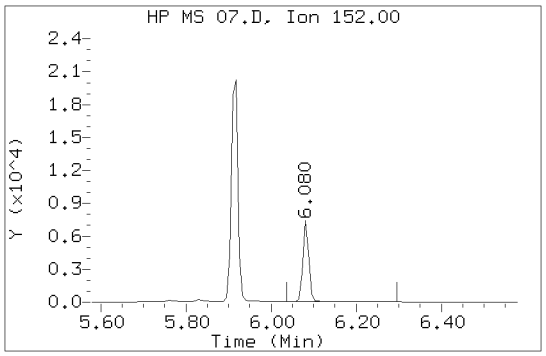
BEFORE

MASS
152
AREA
6880
HEIGHT
7355
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
6880
HEIGHT
7355
18-Dec-2023
10:16
linh
pham

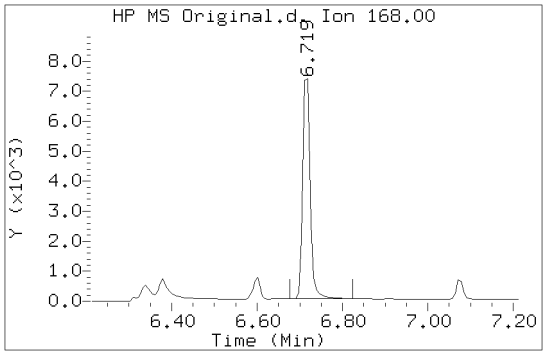


Dibenzofuran (132-64-9)

Reason Code:

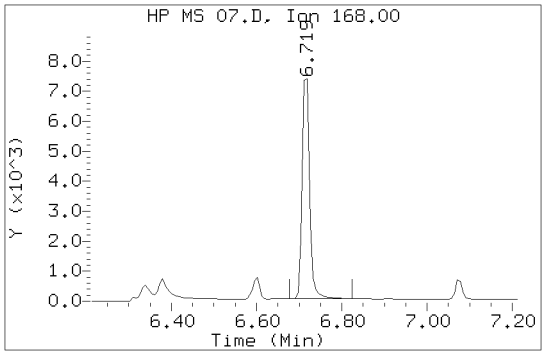
BEFORE

MASS
168
AREA
8792
HEIGHT
7327
18-Dec-2023
10:16
linh
pham



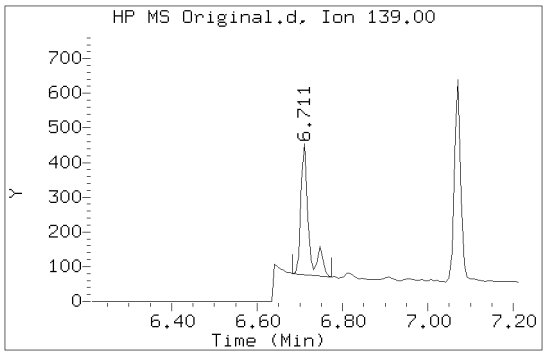
AFTER

MASS
168
AREA
8792
HEIGHT
7327
18-Dec-2023
10:16
linh
pham



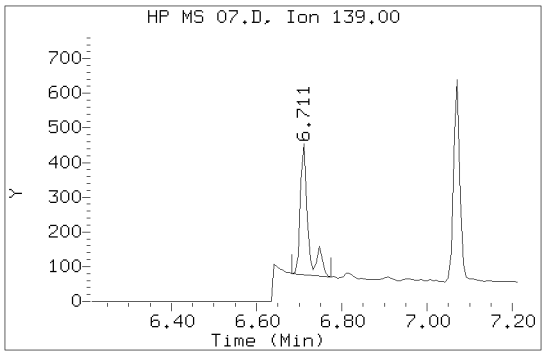
BEFORE

MASS
139
AREA
473
HEIGHT
378
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
473
HEIGHT
378
18-Dec-2023
10:16
linh
pham



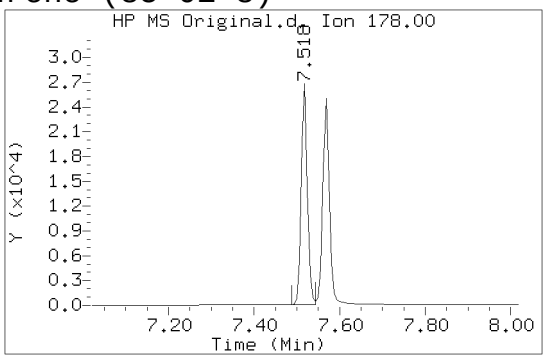
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Phenanthrene (85-01-8)

Reason Code:

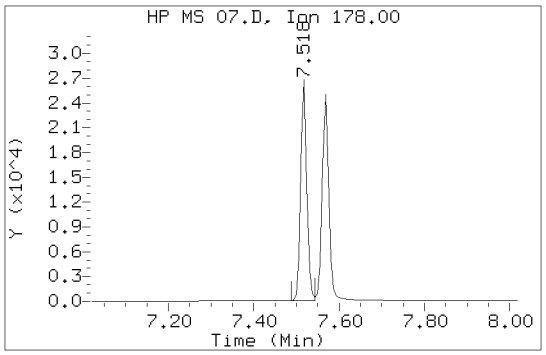
BEFORE

MASS
178
AREA
26664
HEIGHT
26751
18-Dec-2023
10:16
linh
pham



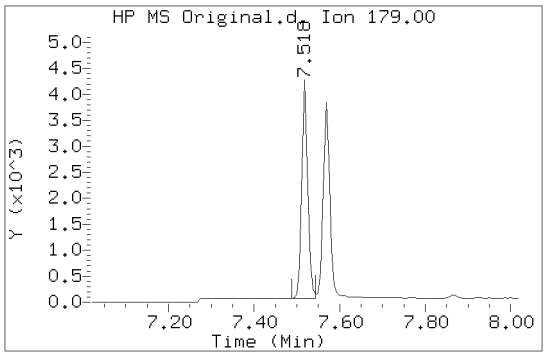
AFTER

MASS
178
AREA
26664
HEIGHT
26751
18-Dec-2023
10:16
linh
pham



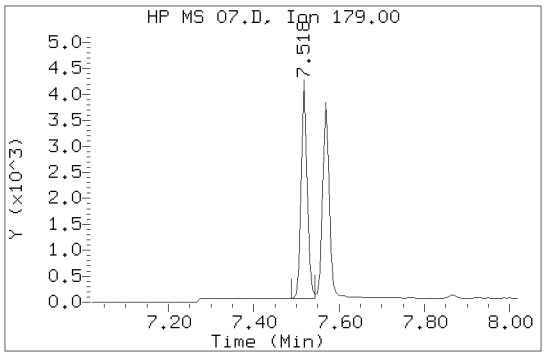
BEFORE

MASS
179
AREA
4073
HEIGHT
4203
18-Dec-2023
10:16
linh
pham



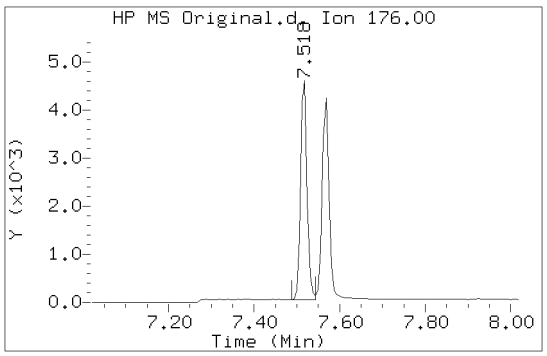
AFTER

MASS
179
AREA
4073
HEIGHT
4203
18-Dec-2023
10:16
linh
pham



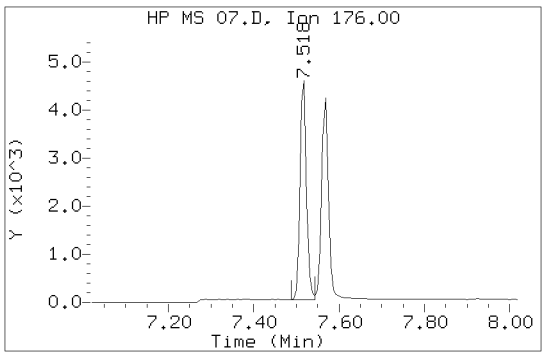
BEFORE

MASS
176
AREA
4840
HEIGHT
4560
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
4840
HEIGHT
4560
18-Dec-2023
10:16
linh
pham

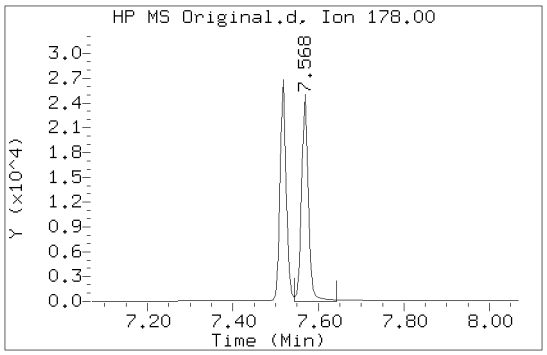


Anthracene (120-12-7)

Reason Code:

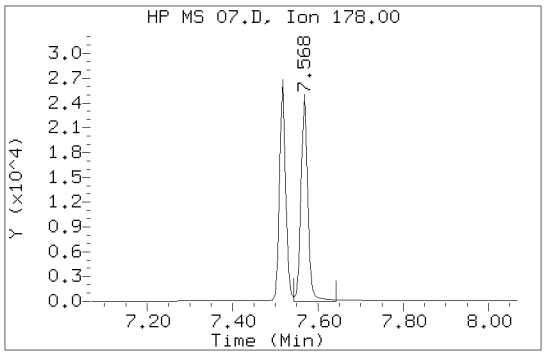
BEFORE

MASS
178
AREA
26722
HEIGHT
24990
18-Dec-2023
10:16
linh
pham



AFTER

MASS
178
AREA
26722
HEIGHT
24990
18-Dec-2023
10:16
linh
pham



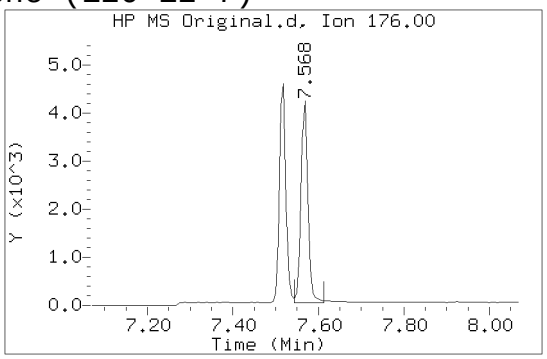
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Anthracene (120-12-7)

Reason Code:

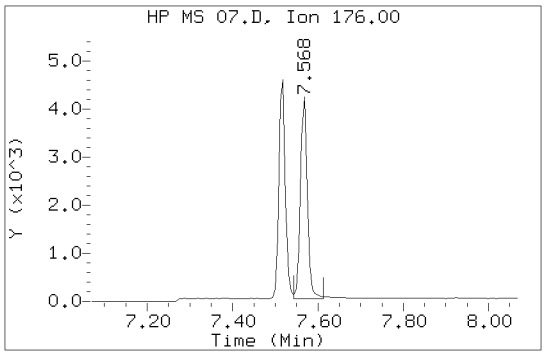
BEFORE

MASS
176
AREA
4599
HEIGHT
4199
18-Dec-2023
10:16
linh
pham



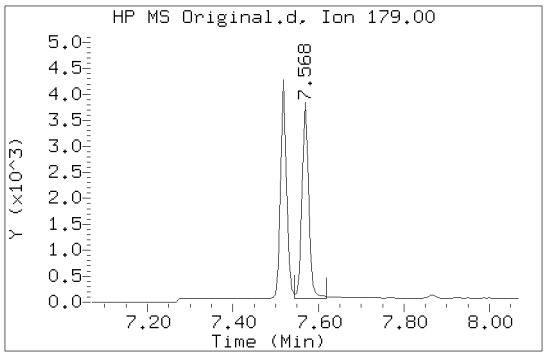
AFTER

MASS
176
AREA
4599
HEIGHT
4199
18-Dec-2023
10:16
linh
pham



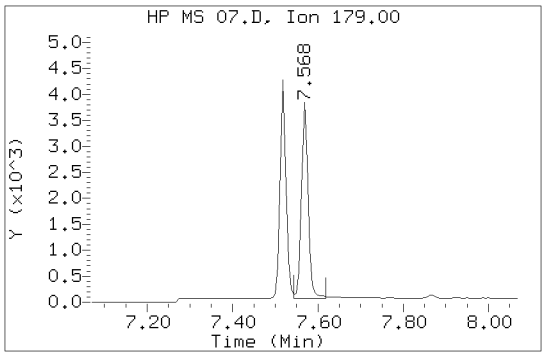
BEFORE

MASS
179
AREA
4004
HEIGHT
3773
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
4004
HEIGHT
3773
18-Dec-2023
10:16
linh
pham

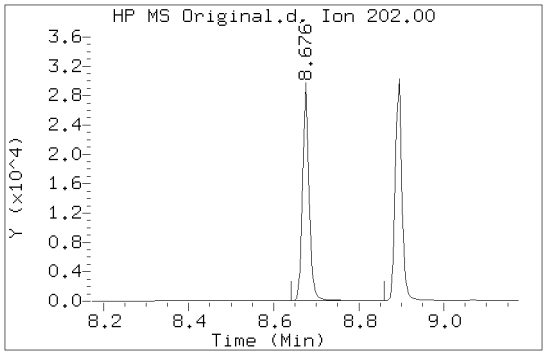


Fluoranthene (206-44-0)

Reason Code:

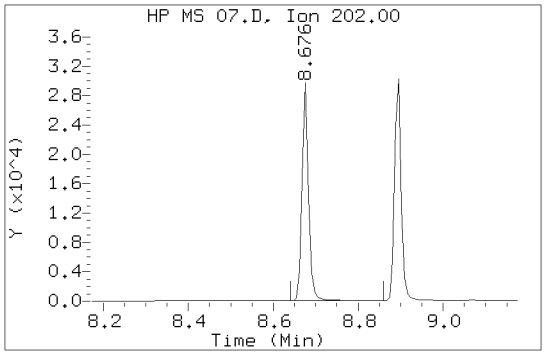
BEFORE

MASS
202
AREA
31373
HEIGHT
29653
18-Dec-2023
10:16
linh
pham



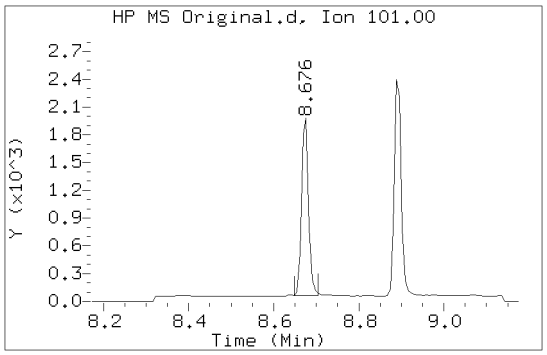
AFTER

MASS
202
AREA
31373
HEIGHT
29653
18-Dec-2023
10:16
linh
pham



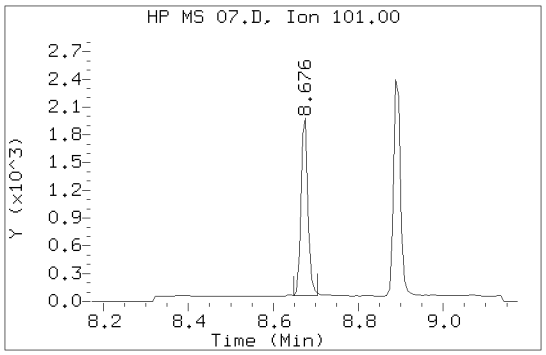
BEFORE

MASS
101
AREA
2172
HEIGHT
1917
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
2172
HEIGHT
1917
18-Dec-2023
10:16
linh
pham



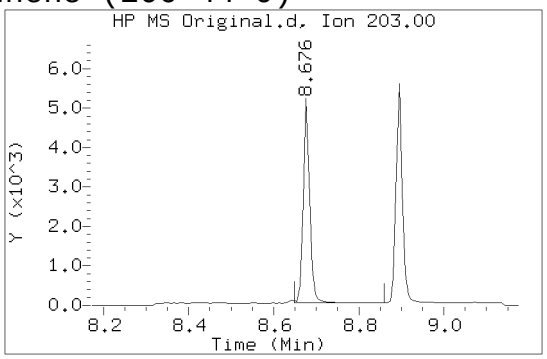
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Fluoranthene (206-44-0)

Reason Code:

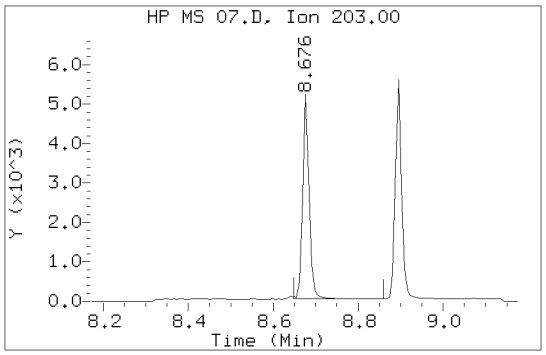
BEFORE

MASS
203
AREA
5447
HEIGHT
5185
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
5447
HEIGHT
5185
18-Dec-2023
10:16
linh
pham

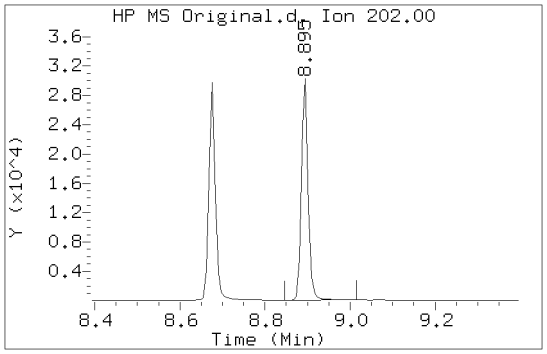


Pyrene (129-00-0)

Reason Code:

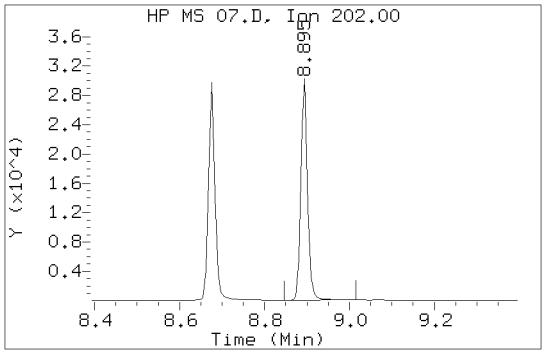
BEFORE

MASS
202
AREA
33015
HEIGHT
30195
18-Dec-2023
10:16
linh
pham



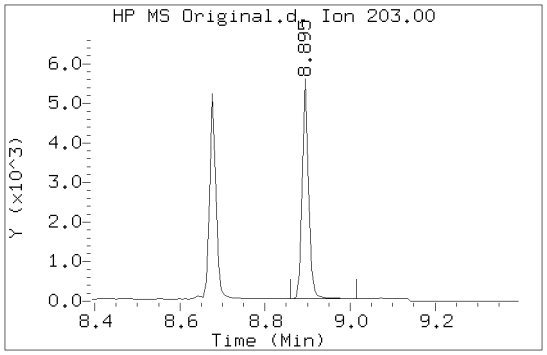
AFTER

MASS
202
AREA
33015
HEIGHT
30195
18-Dec-2023
10:16
linh
pham



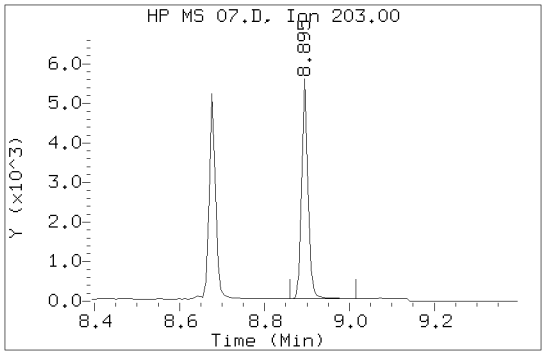
BEFORE

MASS
203
AREA
5785
HEIGHT
5558
18-Dec-2023
10:16
linh
pham



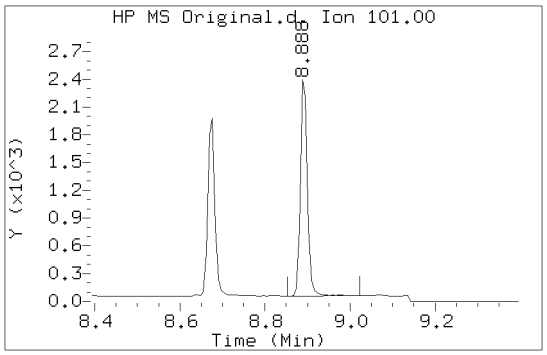
AFTER

MASS
203
AREA
5785
HEIGHT
5558
18-Dec-2023
10:16
linh
pham



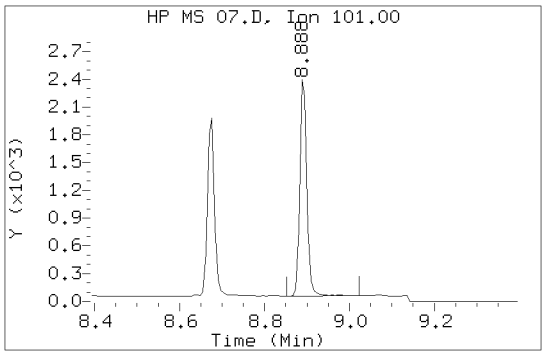
BEFORE

MASS
101
AREA
2688
HEIGHT
2337
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
2688
HEIGHT
2337
18-Dec-2023
10:16
linh
pham



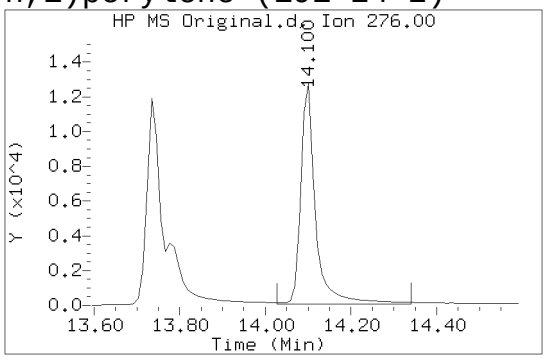
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

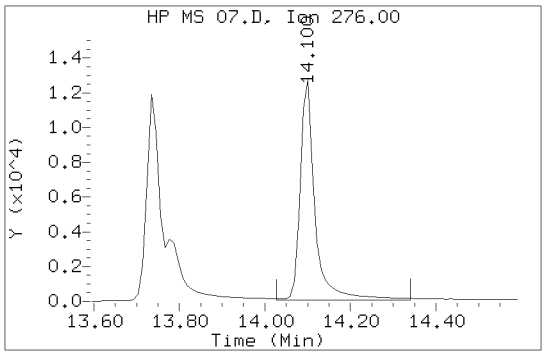
BEFORE

MASS
276
AREA
30097
HEIGHT
12666
18-Dec-2023
10:16
linh
pham



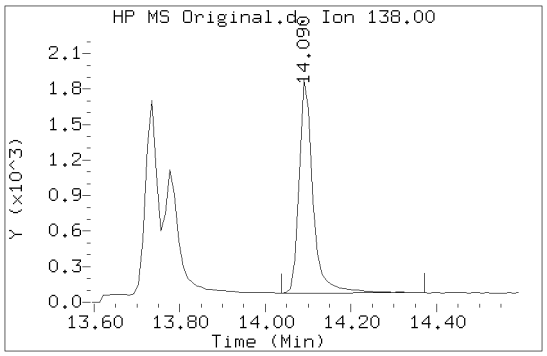
AFTER

MASS
276
AREA
30097
HEIGHT
12666
18-Dec-2023
10:16
linh
pham



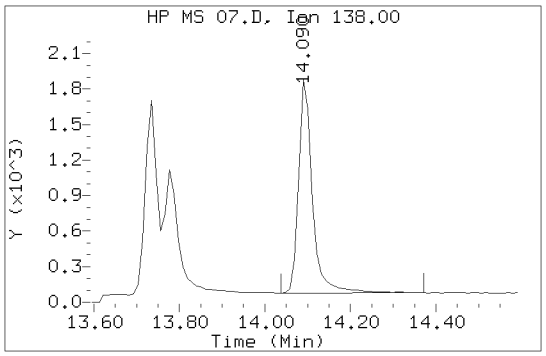
BEFORE

MASS
138
AREA
4031
HEIGHT
1800
18-Dec-2023
10:16
linh
pham



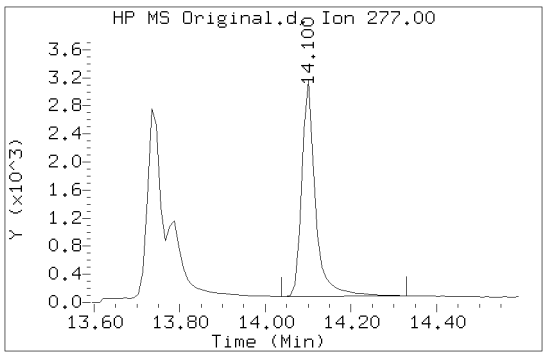
AFTER

MASS
138
AREA
4031
HEIGHT
1800
18-Dec-2023
10:16
linh
pham



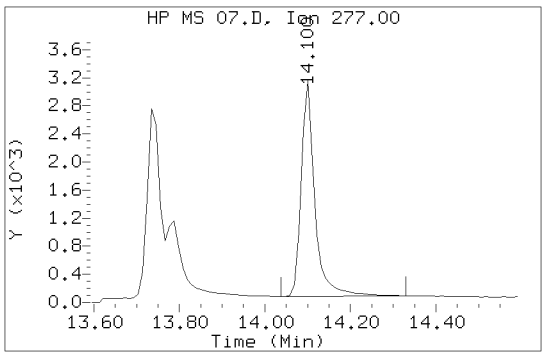
BEFORE

MASS
277
AREA
6760
HEIGHT
3073
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
6760
HEIGHT
3073
18-Dec-2023
10:16
linh
pham

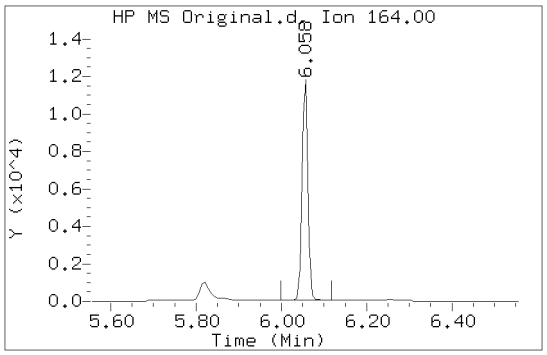


Acenaphthene-d10 (15067-26-2)

Reason Code:

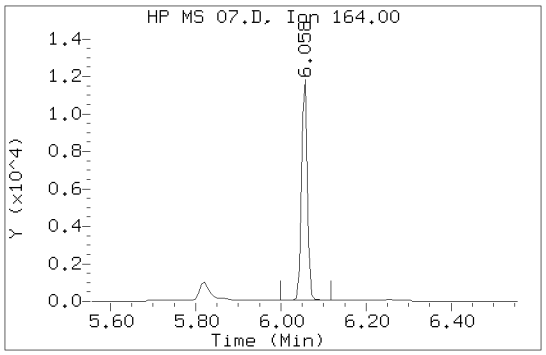
BEFORE

MASS
164
AREA
11904
HEIGHT
11762
18-Dec-2023
10:16
linh
pham



AFTER

MASS
164
AREA
11904
HEIGHT
11762
18-Dec-2023
10:16
linh
pham



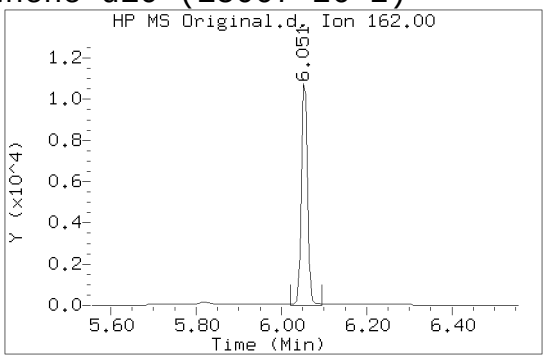
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Acenaphthene-d10 (15067-26-2)

Reason Code:

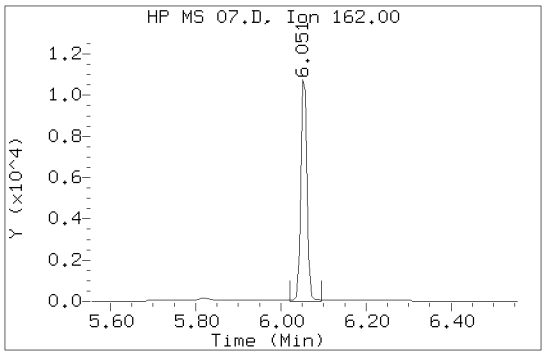
BEFORE

MASS
162
AREA
11741
HEIGHT
10753
18-Dec-2023
10:16
linh
pham



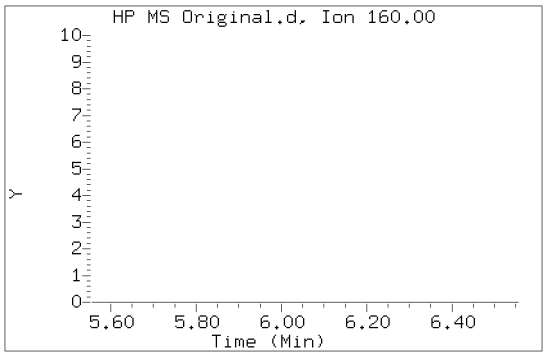
AFTER

MASS
162
AREA
11741
HEIGHT
10753
18-Dec-2023
10:16
linh
pham



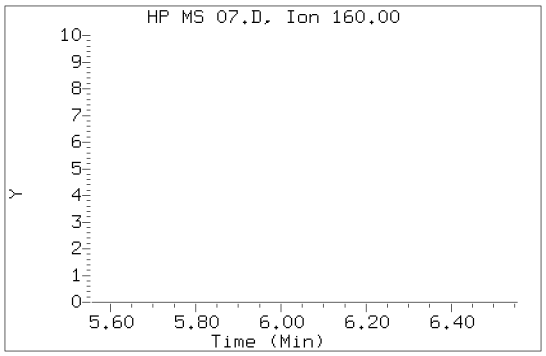
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

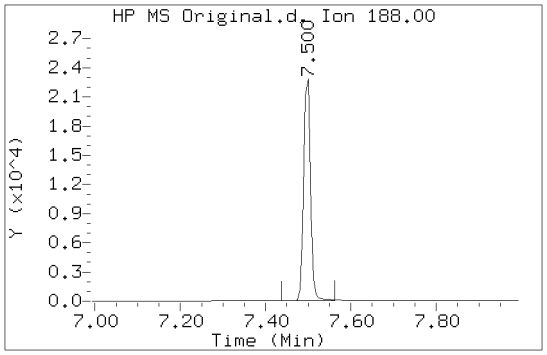


Phenanthrene-d10 (1517-22-2)

Reason Code:

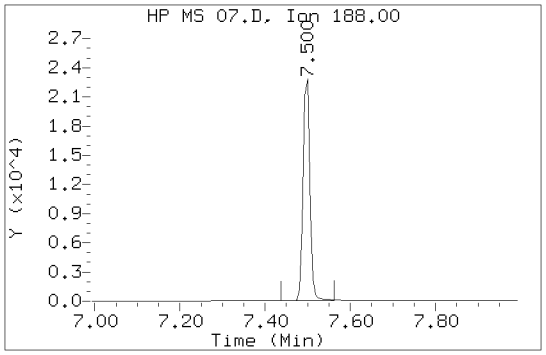
BEFORE

MASS
188
AREA
24679
HEIGHT
22800
18-Dec-2023
10:16
linh
pham



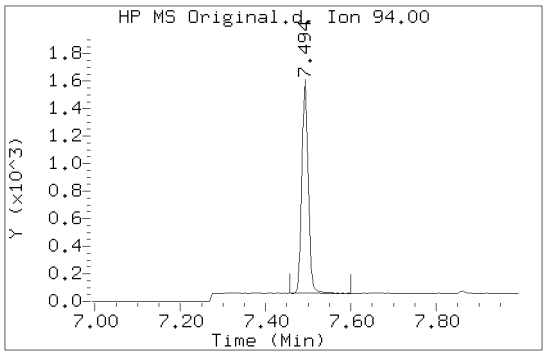
AFTER

MASS
188
AREA
24679
HEIGHT
22800
18-Dec-2023
10:16
linh
pham



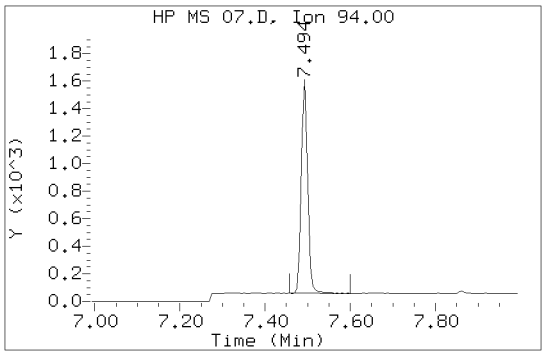
BEFORE

MASS
94
AREA
1578
HEIGHT
1551
18-Dec-2023
10:16
linh
pham



AFTER

MASS
94
AREA
1578
HEIGHT
1551
18-Dec-2023
10:16
linh
pham



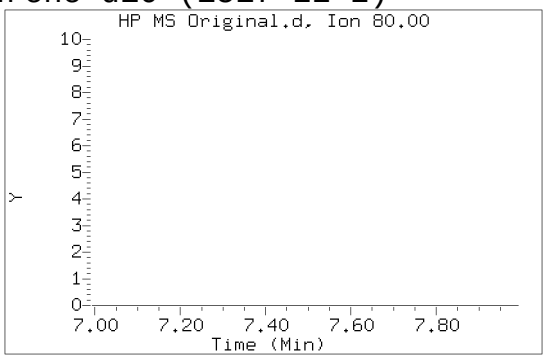
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Phenanthrene-d10 (1517-22-2)

Reason Code:

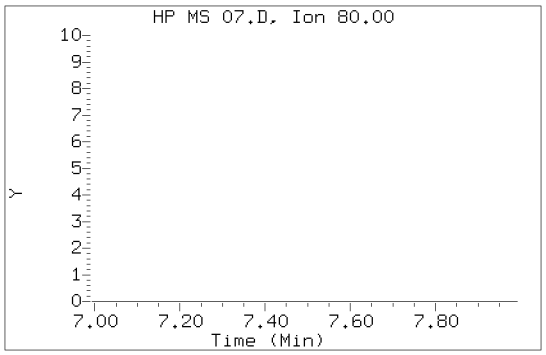
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

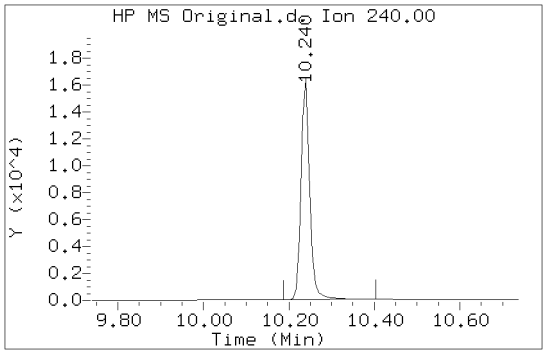


Chrysene-d12 (1719-03-5)

Reason Code:

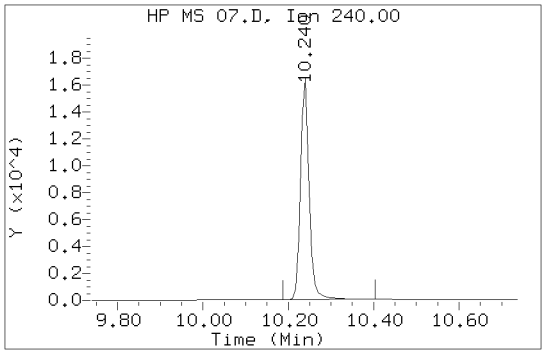
BEFORE

MASS
240
AREA
22845
HEIGHT
16421
18-Dec-2023
10:16
linh
pham



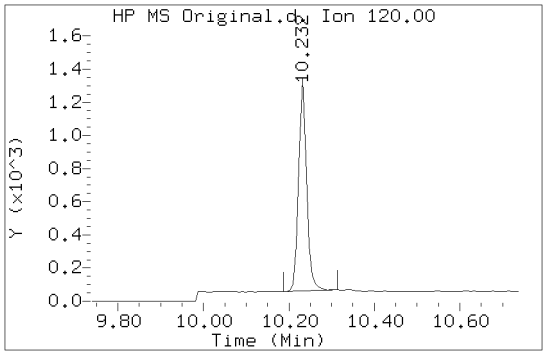
AFTER

MASS
240
AREA
22845
HEIGHT
16421
18-Dec-2023
10:16
linh
pham



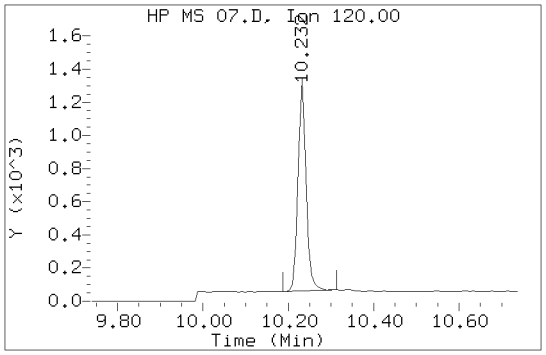
BEFORE

MASS
120
AREA
1643
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



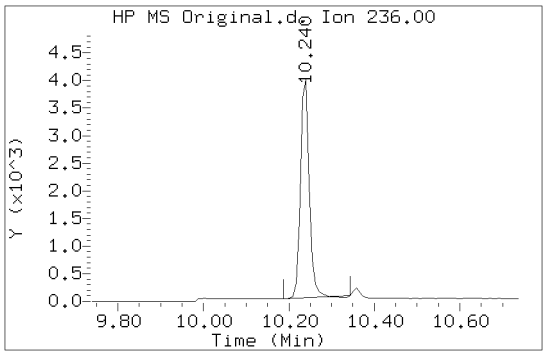
AFTER

MASS
120
AREA
1643
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



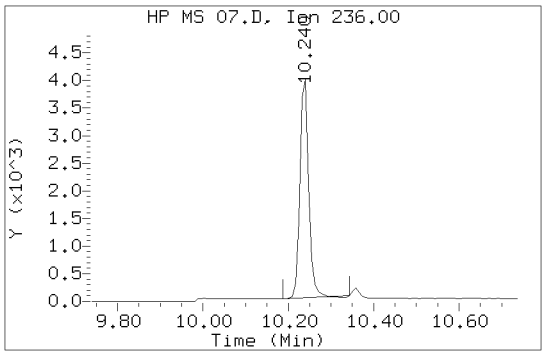
BEFORE

MASS
236
AREA
5496
HEIGHT
3946
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5496
HEIGHT
3946
18-Dec-2023
10:16
linh
pham



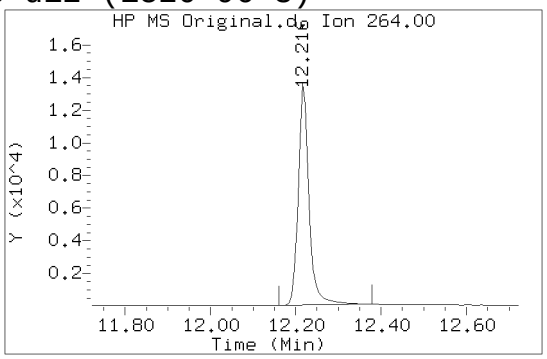
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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Perylene-d12 (1520-96-3)

Reason Code:

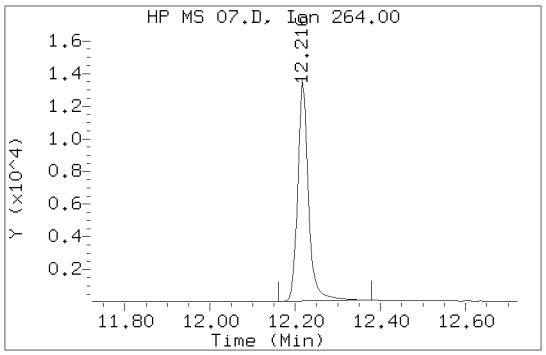
BEFORE

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23969
HEIGHT
13558
18-Dec-2023
10:16
linh
pham



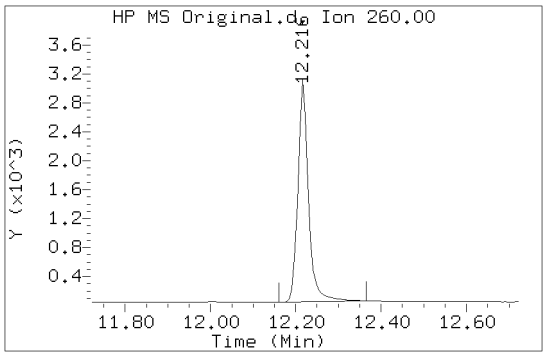
AFTER

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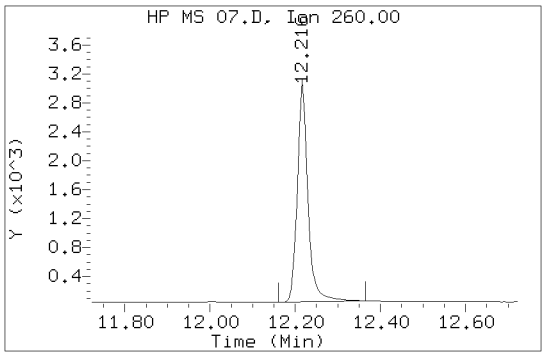
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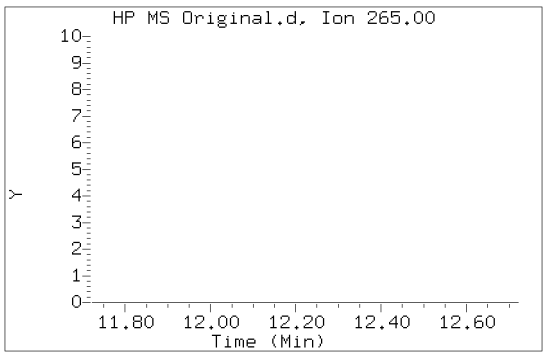
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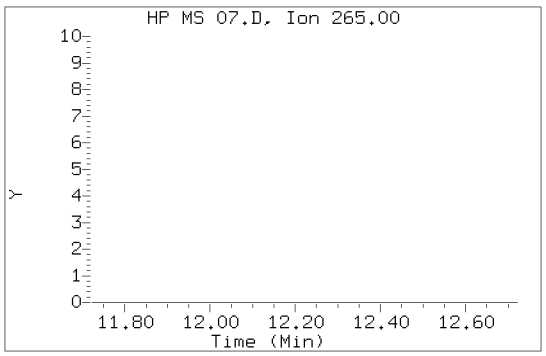
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18-Dec-2023
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AFTER

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18-Dec-2023
10:16
linh
pham

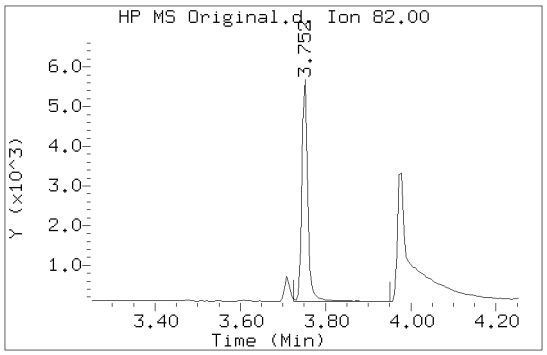


Nitrobenzene-d5 (4165-60-0)

Reason Code:

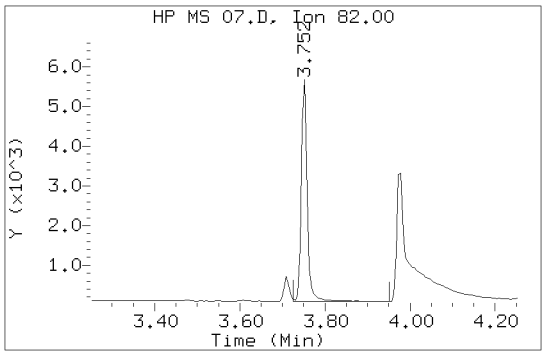
BEFORE

MASS
82
AREA
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HEIGHT
5585
18-Dec-2023
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AFTER

MASS
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18-Dec-2023
10:16
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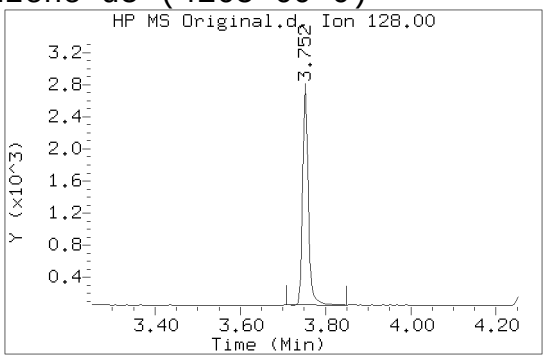


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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Nitrobenzene-d5 (4165-60-0)

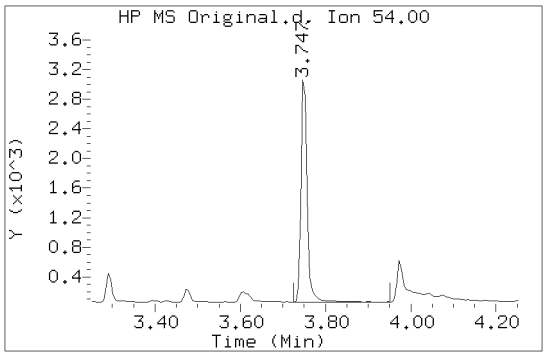
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HEIGHT
2758
18-Dec-2023
10:16
linh
pham



BEFORE

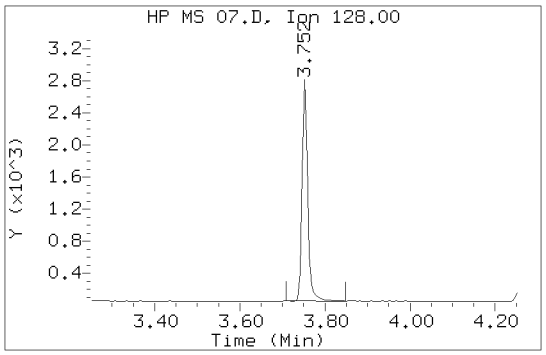
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AREA
2977
HEIGHT
3000
18-Dec-2023
10:16
linh
pham



Reason Code:

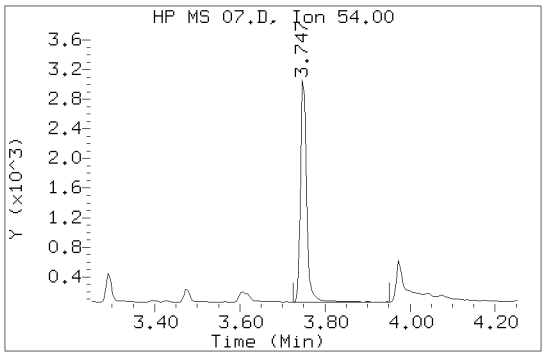
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HEIGHT
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18-Dec-2023
10:16
linh
pham



AFTER

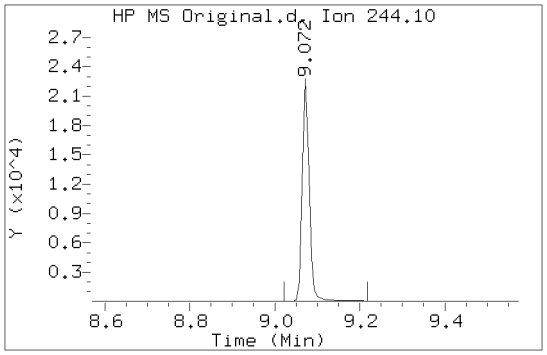
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AREA
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HEIGHT
3000
18-Dec-2023
10:16
linh
pham



4-Terphenyl-d14 (1718-51-0)

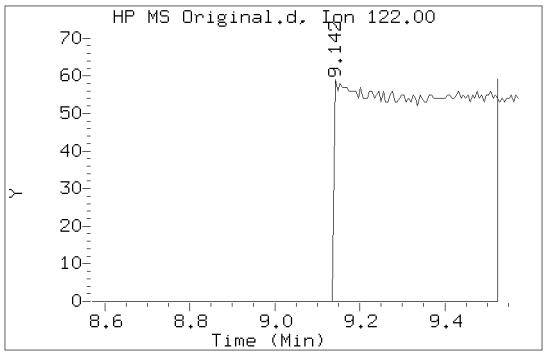
BEFORE

MASS
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AREA
22359
HEIGHT
22705
18-Dec-2023
10:16
linh
pham



BEFORE

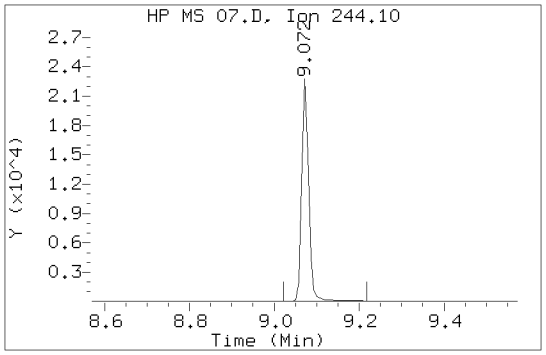
MASS
122
AREA
1277
HEIGHT
59
18-Dec-2023
10:16
linh
pham



Reason Code:

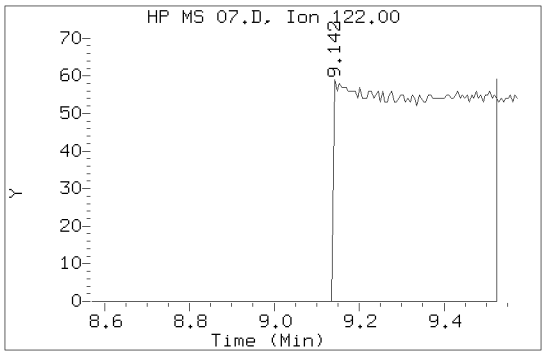
AFTER

MASS
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HEIGHT
22705
18-Dec-2023
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pham



AFTER

MASS
122
AREA
1277
HEIGHT
59
18-Dec-2023
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linh
pham

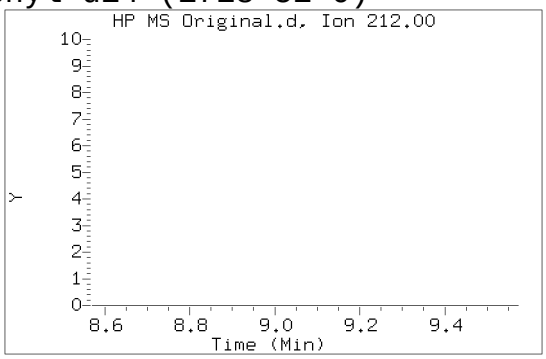


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Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

4-Terphenyl-d14 (1718-51-0)

BEFORE

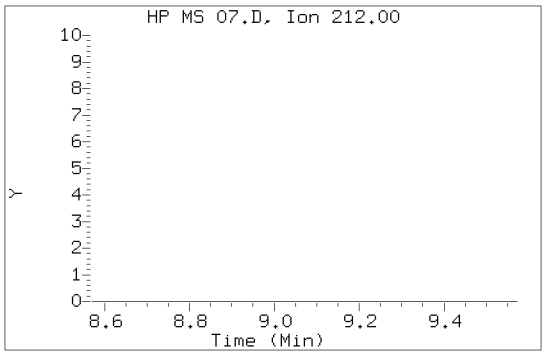
MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Reason Code:

AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Lab Smp Id: PAHSIM-0.15 Client Smp ID: PAHSIM-0.15
Inj Date : 12-DEC-2023 15:19
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 14:59 Cal File: 07.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	17703	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	7134	0.15000	0.1461(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	10954	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.419	5.419	(0.895)	25774	0.15000	0.1478
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	22321	0.10000	(M)
* 182 Chrysene-d12	240	10.243	10.243	(1.000)	20983	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.886)	29263	0.15000	0.1373(M)
* 198 Perylene-d12	264	12.218	12.218	(1.000)	22219	0.10000	
46 Naphthalene	128	4.407	4.407	(1.004)	28695	0.15000	0.1477(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.184)	19417	0.15000	0.1495
62 1-Methylnaphthalene	142	5.151	5.151	(1.205)	18191	0.15000	0.1501
83 Acenaphthylene	152	5.917	5.917	(0.977)	29849	0.15000	0.1490
88 Acenaphthene	154	6.087	6.087	(1.005)	18502	0.15000	0.1465
98 Fluorene	166	6.588	6.588	(1.087)	22870	0.15000	0.1473
92 Dibenzofuran	168	6.717	6.717	(1.109)	12028	0.15000	0.1469(M)
128 Phenanthrene	178	7.517	7.517	(1.002)	36355	0.15000	0.1488
130 Anthracene	178	7.566	7.566	(1.009)	36102	0.15000	0.1483(M)
149 Fluoranthene	202	8.674	8.674	(1.157)	42723	0.15000	0.1470(M)
155 Pyrene	202	8.893	8.893	(0.868)	45084	0.15000	0.1478(M)

181 Benzo(a)Anthracene	228	10.228	10.228 (0.999)	42014	0.15000	0.1477(M)
183 Chrysene	228	10.265	10.265 (1.002)	46100	0.15000	0.1454(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.956)	39827	0.15000	0.1444(M)
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.959)	50384	0.15000	0.1510
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	38902	0.15000	0.1455(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	46491	0.15000	0.1453(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.129)	39497	0.15000	0.1486(M)
212 Benzo(g,h,i)perylene	276	14.103	14.103	(1.154)	42774	0.15000	0.1497(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D

Date : 12-DEC-2023 15:19

Client ID: PAHSIM-0.15

Instrument: SV6.i

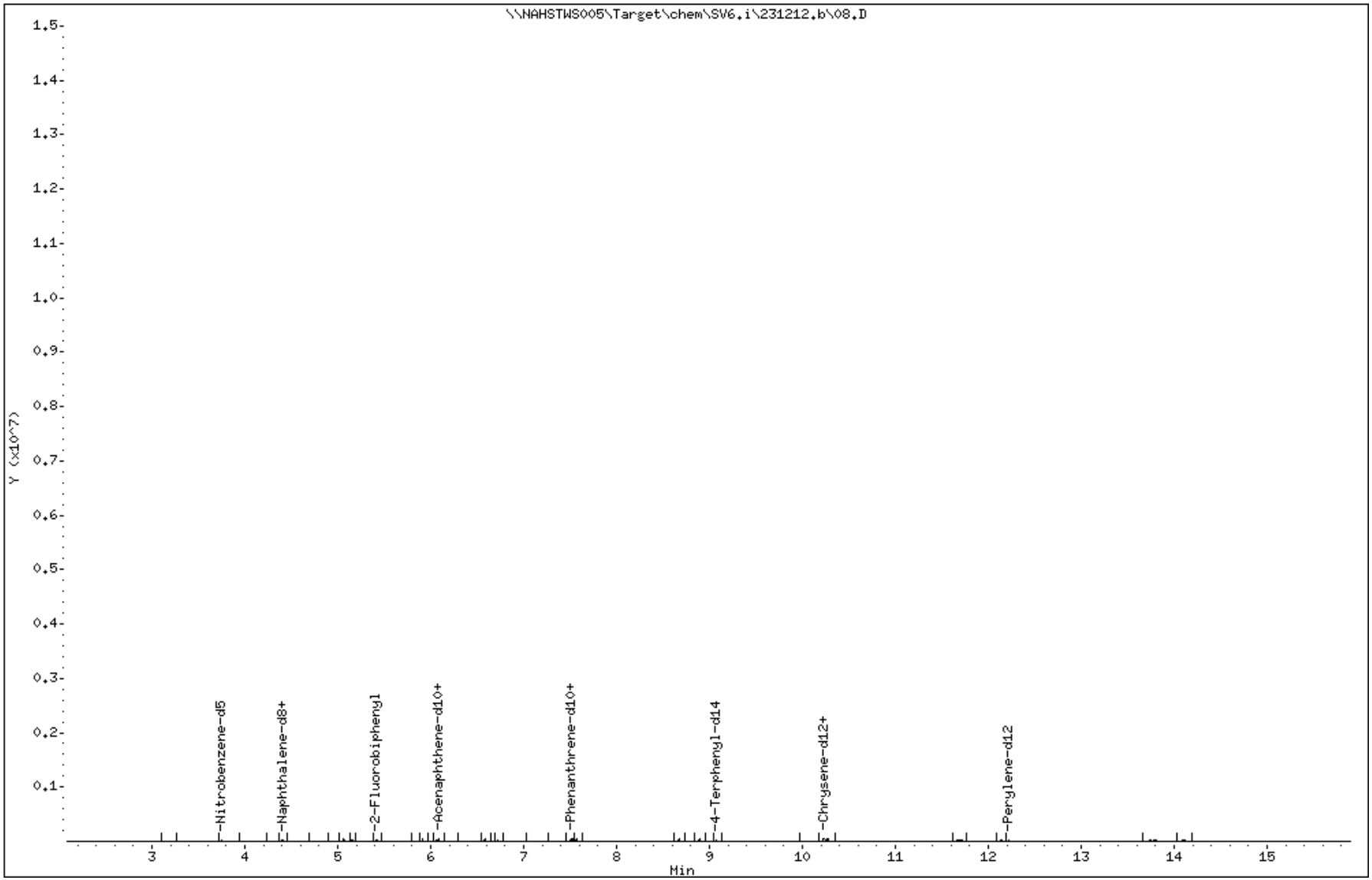
Sample Info: PAHSIM-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



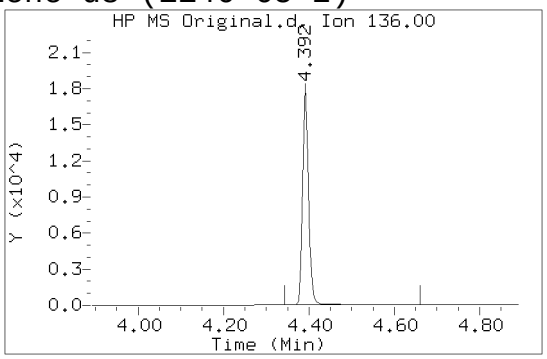
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

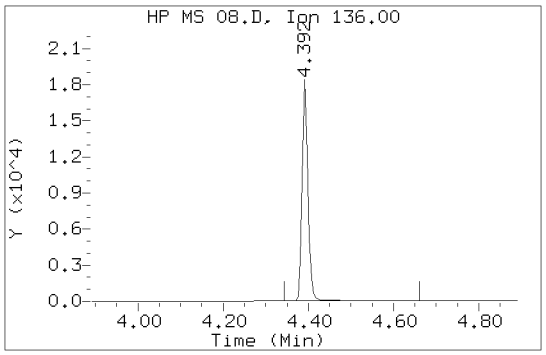
BEFORE

MASS
136
AREA
17703
HEIGHT
18361
18-Dec-2023
10:16
linh
pham



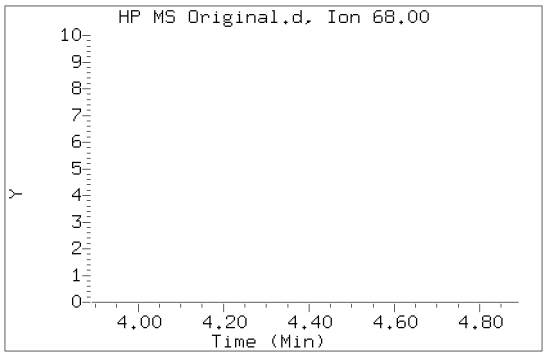
AFTER

MASS
136
AREA
17703
HEIGHT
18361
18-Dec-2023
10:16
linh
pham



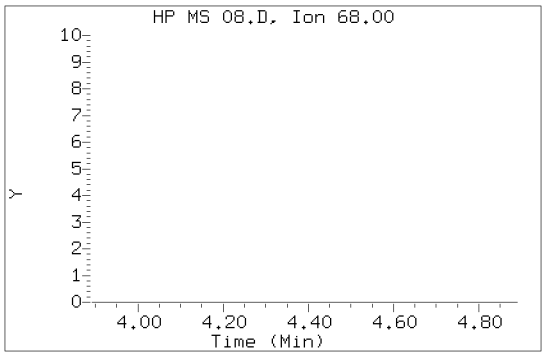
BEFORE

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AREA
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HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

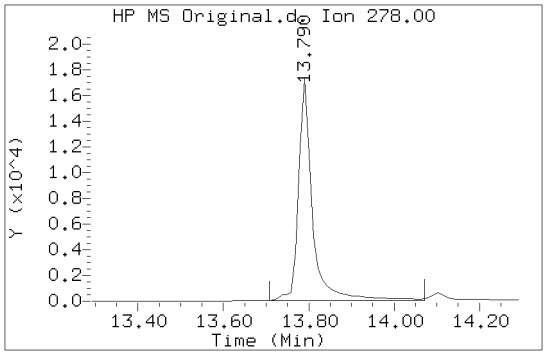


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

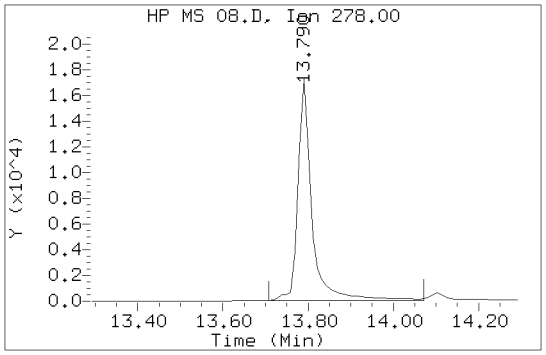
BEFORE

MASS
278
AREA
39497
HEIGHT
17254
18-Dec-2023
10:16
linh
pham



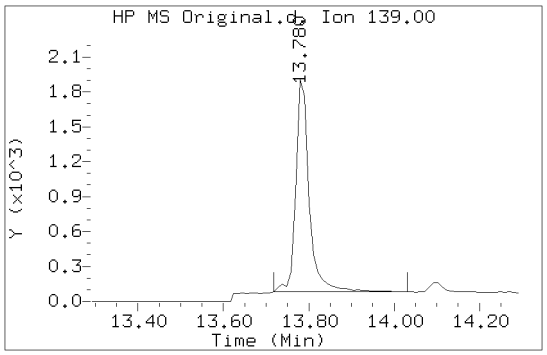
AFTER

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278
AREA
39497
HEIGHT
17254
18-Dec-2023
10:16
linh
pham



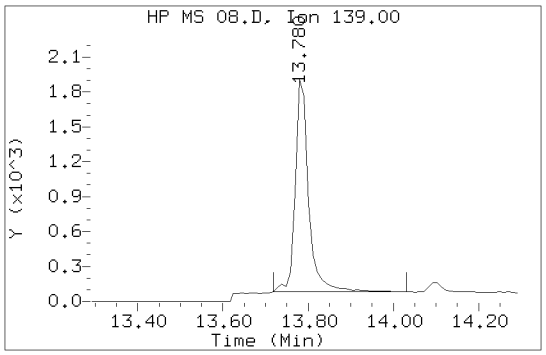
BEFORE

MASS
139
AREA
4012
HEIGHT
1825
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
4012
HEIGHT
1825
18-Dec-2023
10:16
linh
pham



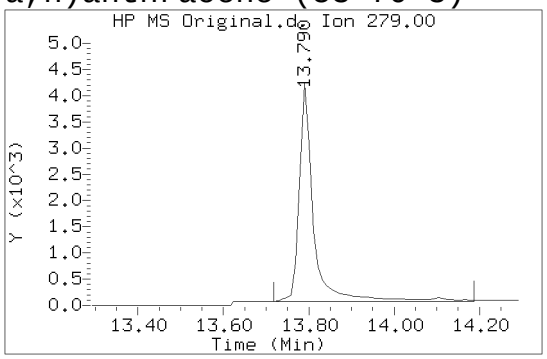
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

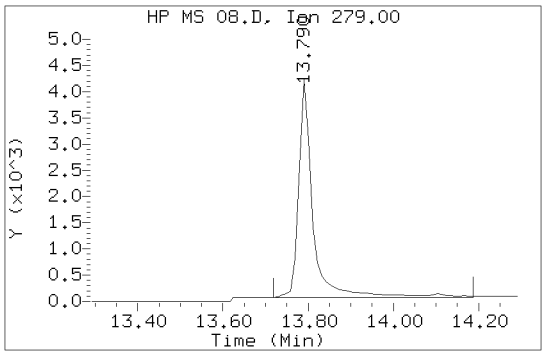
BEFORE

MASS
279
AREA
9608
HEIGHT
4150
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
9608
HEIGHT
4150
18-Dec-2023
10:16
linh
pham

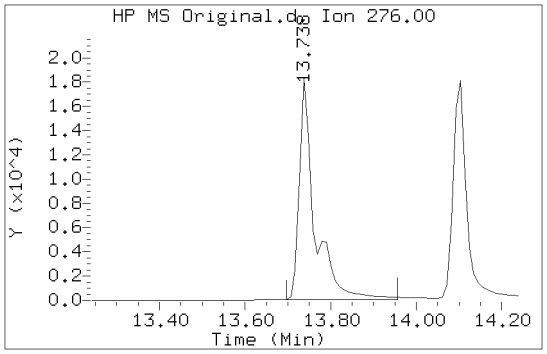


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

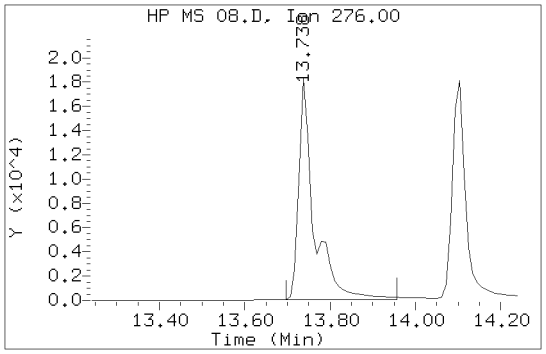
BEFORE

MASS
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AREA
46491
HEIGHT
18252
18-Dec-2023
10:16
linh
pham



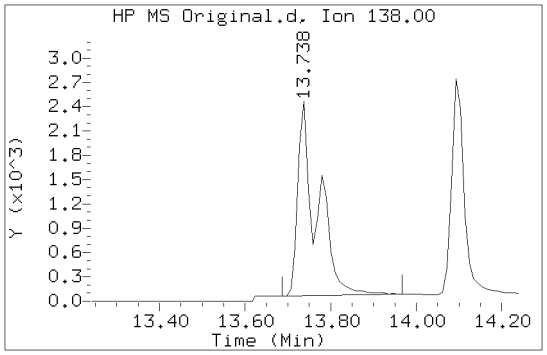
AFTER

MASS
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AREA
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18252
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10:16
linh
pham



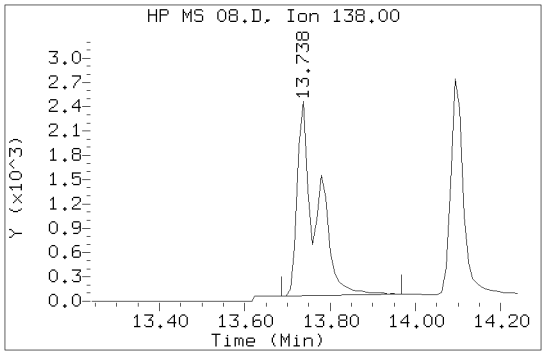
BEFORE

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AREA
7473
HEIGHT
2397
18-Dec-2023
10:16
linh
pham



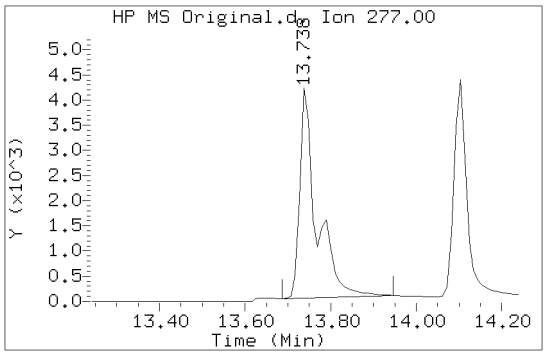
AFTER

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18-Dec-2023
10:16
linh
pham



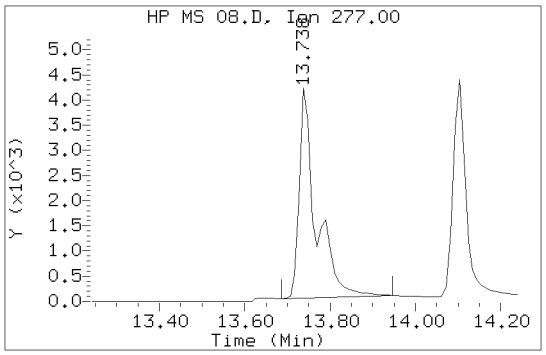
BEFORE

MASS
277
AREA
11364
HEIGHT
4172
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
11364
HEIGHT
4172
18-Dec-2023
10:16
linh
pham



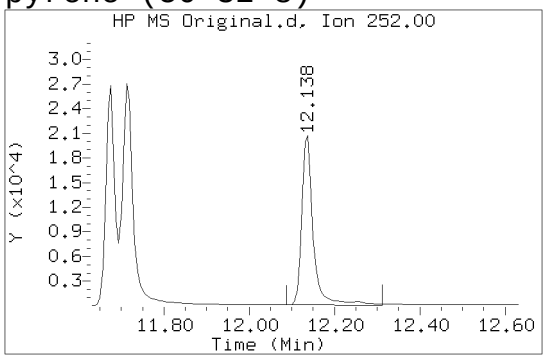
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Benzo(a)pyrene (50-32-8)

Reason Code:

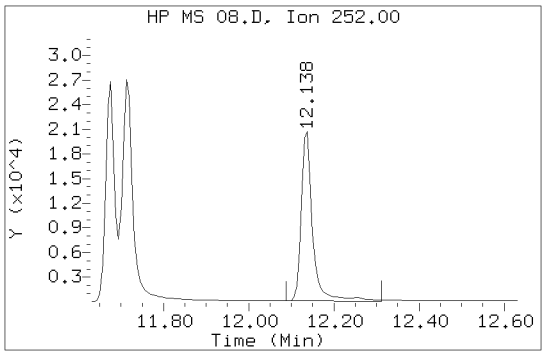
BEFORE

MASS
252
AREA
38902
HEIGHT
20639
18-Dec-2023
10:16
linh
pham



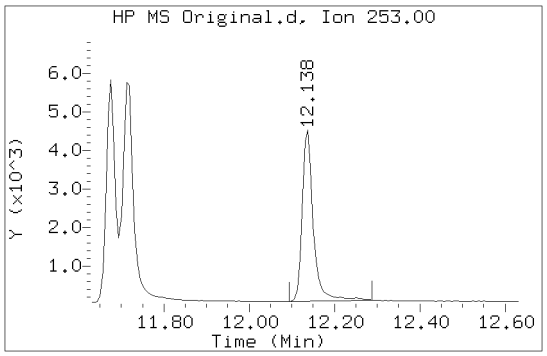
AFTER

MASS
252
AREA
38902
HEIGHT
20639
18-Dec-2023
10:16
linh
pham



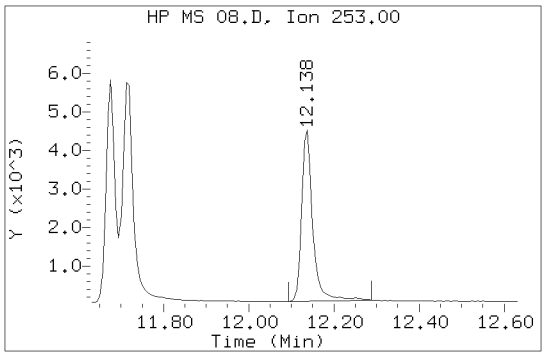
BEFORE

MASS
253
AREA
8136
HEIGHT
4443
18-Dec-2023
10:16
linh
pham



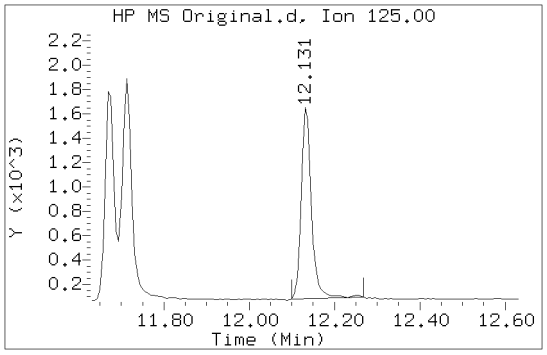
AFTER

MASS
253
AREA
8136
HEIGHT
4443
18-Dec-2023
10:16
linh
pham



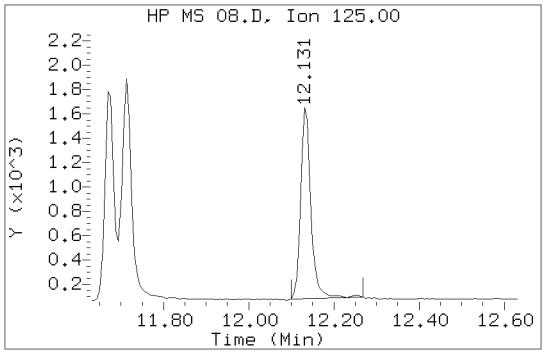
BEFORE

MASS
125
AREA
2667
HEIGHT
1572
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2667
HEIGHT
1572
18-Dec-2023
10:16
linh
pham

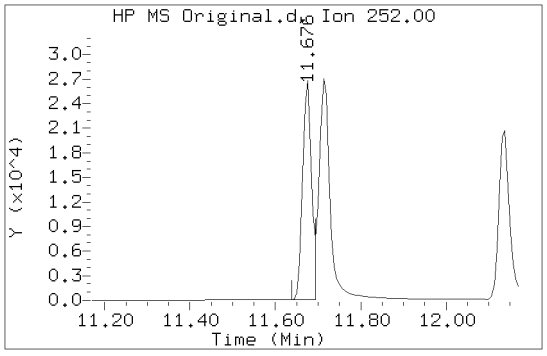


Benzo(b)fluoranthene (205-99-2)

Reason Code:

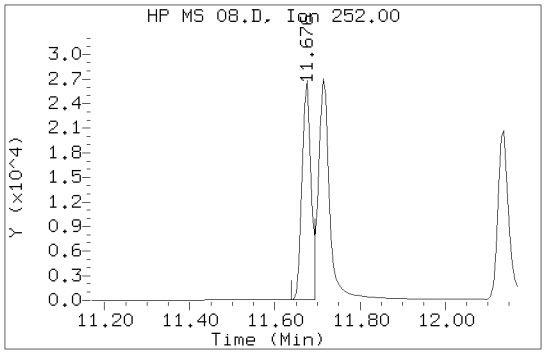
BEFORE

MASS
252
AREA
39827
HEIGHT
26824
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
39827
HEIGHT
26824
18-Dec-2023
10:16
linh
pham



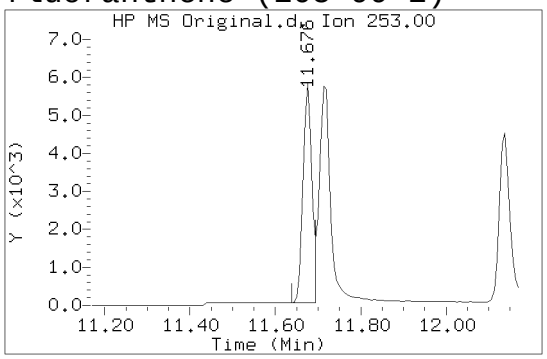
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Benzo(b)fluoranthene (205-99-2)

Reason Code:

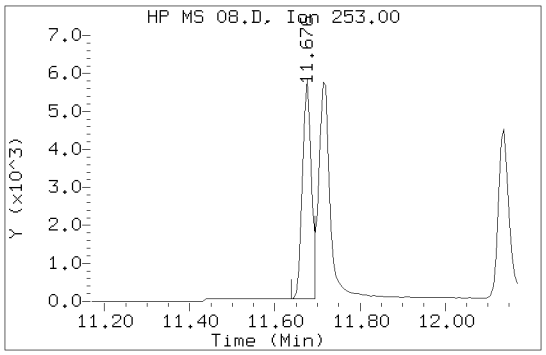
BEFORE

MASS
253
AREA
8483
HEIGHT
5763
18-Dec-2023
10:16
linh
pham



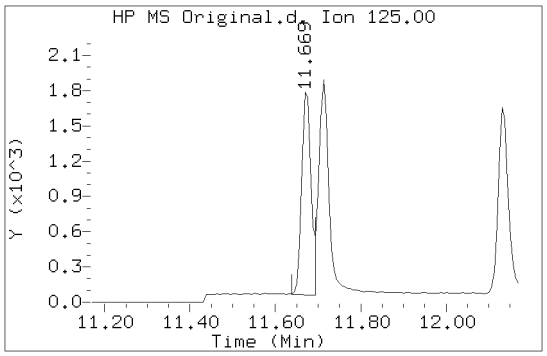
AFTER

MASS
253
AREA
8483
HEIGHT
5763
18-Dec-2023
10:16
linh
pham



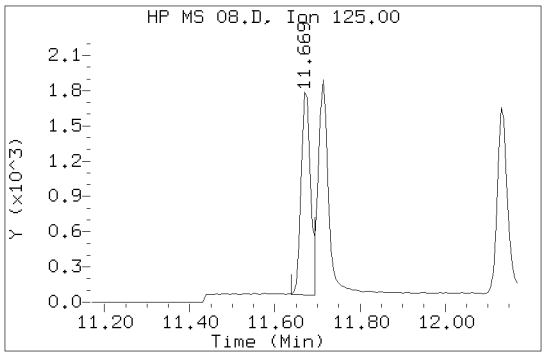
BEFORE

MASS
125
AREA
2701
HEIGHT
1722
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2701
HEIGHT
1722
18-Dec-2023
10:16
linh
pham

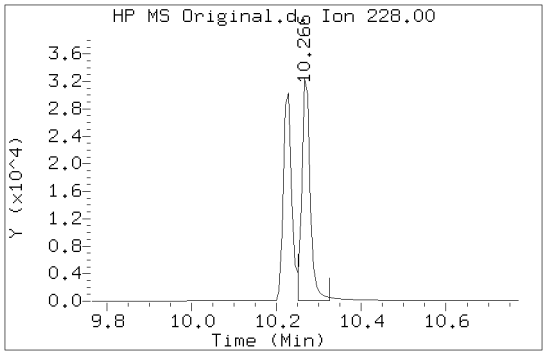


Chrysene (218-01-9)

Reason Code:

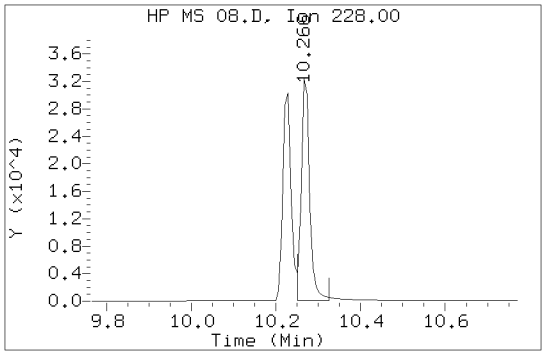
BEFORE

MASS
228
AREA
46100
HEIGHT
32289
18-Dec-2023
10:16
linh
pham



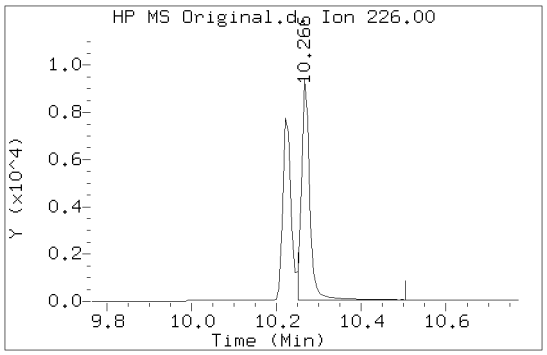
AFTER

MASS
228
AREA
46100
HEIGHT
32289
18-Dec-2023
10:16
linh
pham



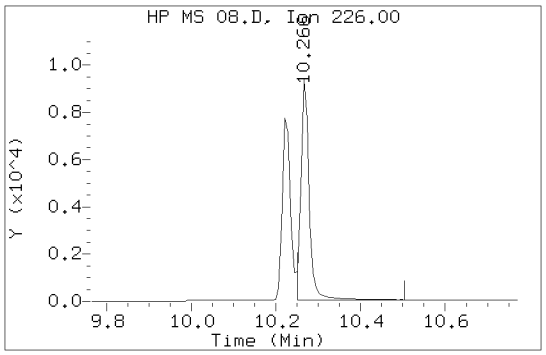
BEFORE

MASS
226
AREA
13053
HEIGHT
9330
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
13053
HEIGHT
9330
18-Dec-2023
10:16
linh
pham



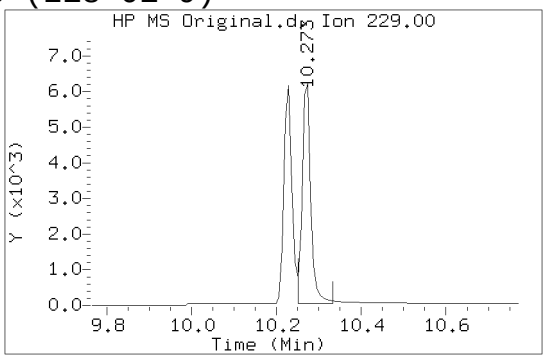
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Chrysene (218-01-9)

Reason Code:

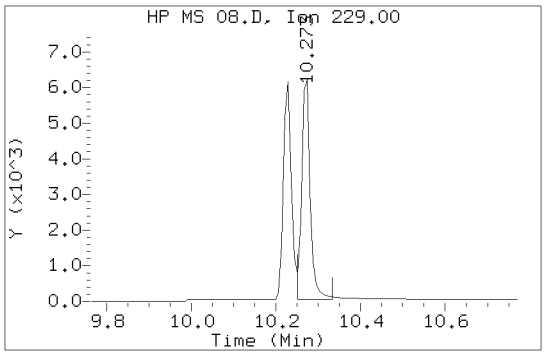
BEFORE

MASS
229
AREA
9005
HEIGHT
6168
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
9005
HEIGHT
6168
18-Dec-2023
10:16
linh
pham

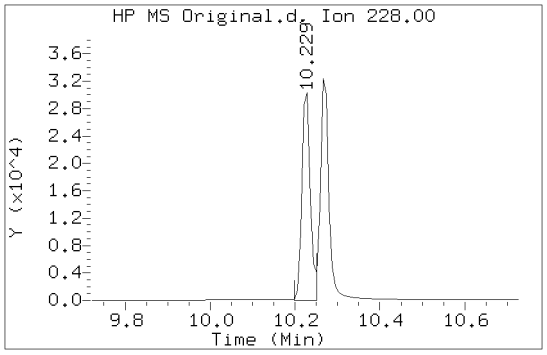


Benzo(a)Anthracene (56-55-3)

Reason Code:

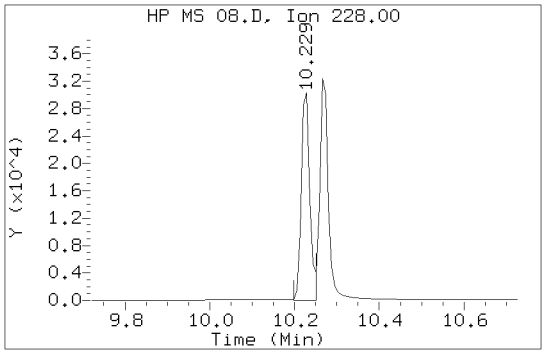
BEFORE

MASS
228
AREA
42014
HEIGHT
30307
18-Dec-2023
10:16
linh
pham



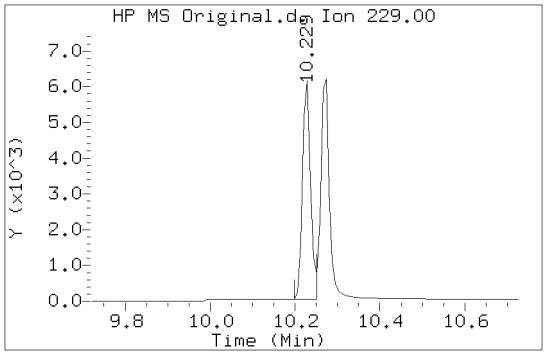
AFTER

MASS
228
AREA
42014
HEIGHT
30307
18-Dec-2023
10:16
linh
pham



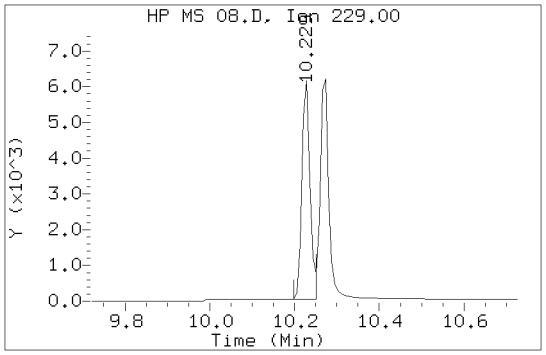
BEFORE

MASS
229
AREA
8083
HEIGHT
6107
18-Dec-2023
10:16
linh
pham



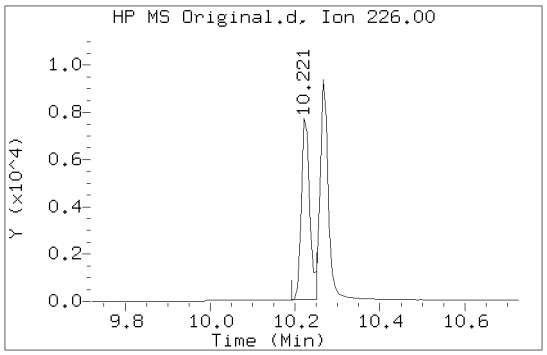
AFTER

MASS
229
AREA
8083
HEIGHT
6107
18-Dec-2023
10:16
linh
pham



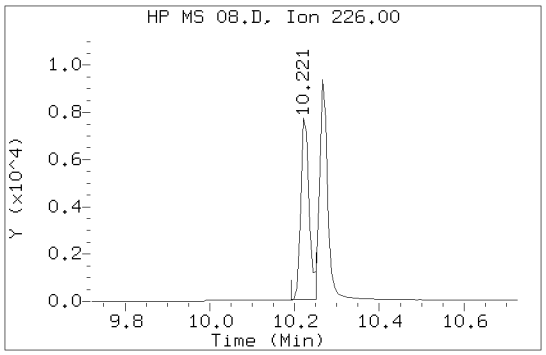
BEFORE

MASS
226
AREA
10572
HEIGHT
7672
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
10572
HEIGHT
7672
18-Dec-2023
10:16
linh
pham



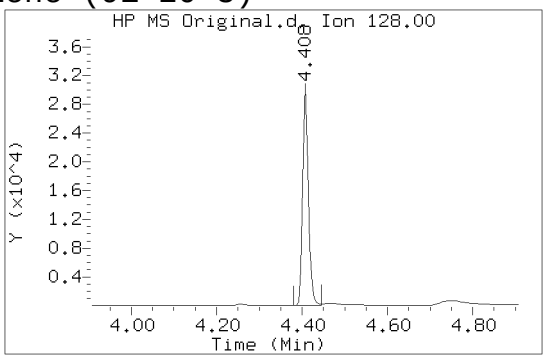
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Naphthalene (91-20-3)

Reason Code:

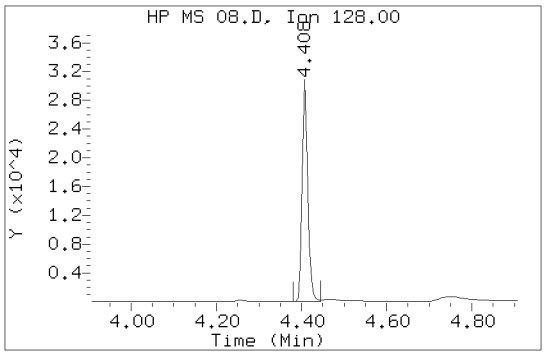
BEFORE

MASS
128
AREA
28695
HEIGHT
30803
18-Dec-2023
10:16
linh
pham



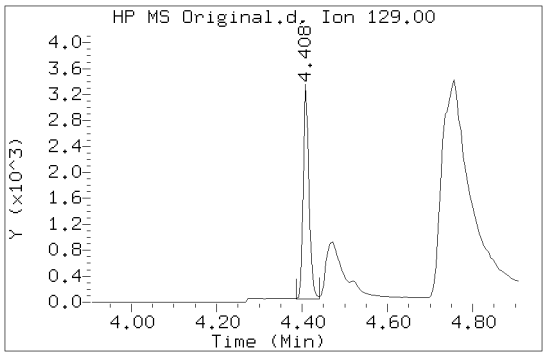
AFTER

MASS
128
AREA
28695
HEIGHT
30803
18-Dec-2023
10:16
linh
pham



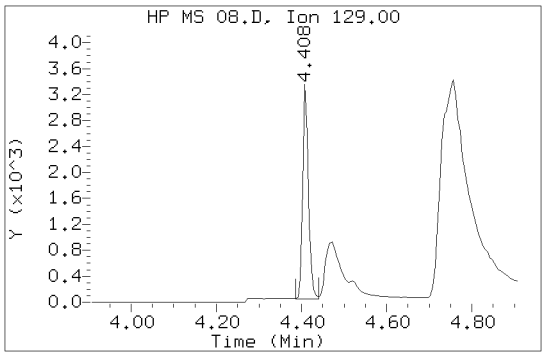
BEFORE

MASS
129
AREA
3124
HEIGHT
3303
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
3124
HEIGHT
3303
18-Dec-2023
10:16
linh
pham

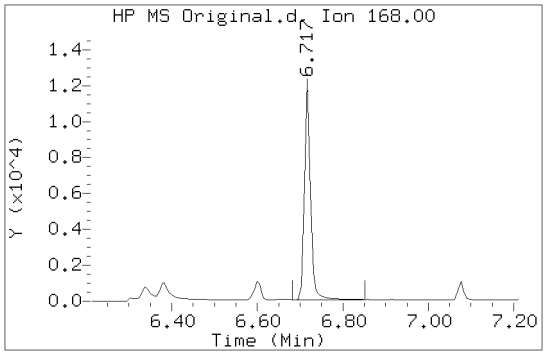


Dibenzofuran (132-64-9)

Reason Code:

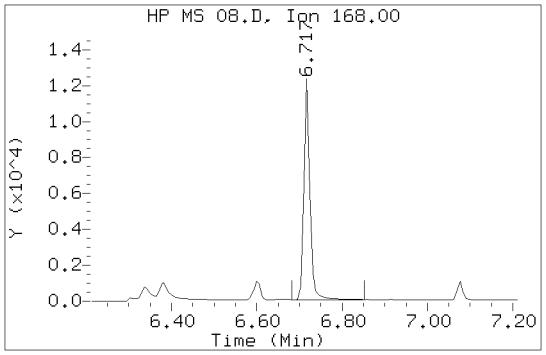
BEFORE

MASS
168
AREA
12028
HEIGHT
12288
18-Dec-2023
10:16
linh
pham



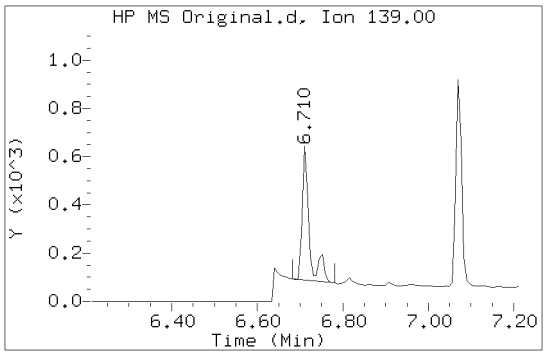
AFTER

MASS
168
AREA
12028
HEIGHT
12288
18-Dec-2023
10:16
linh
pham



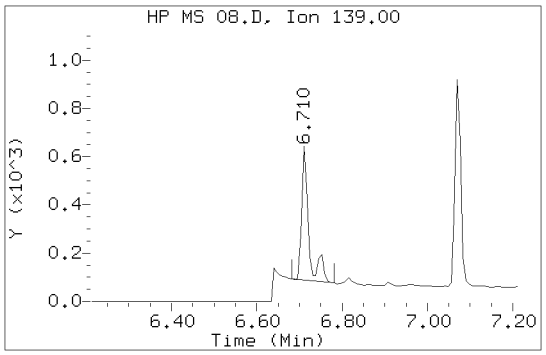
BEFORE

MASS
139
AREA
644
HEIGHT
554
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
644
HEIGHT
554
18-Dec-2023
10:16
linh
pham



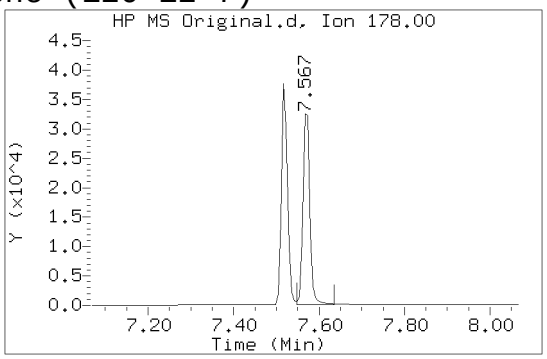
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Anthracene (120-12-7)

Reason Code:

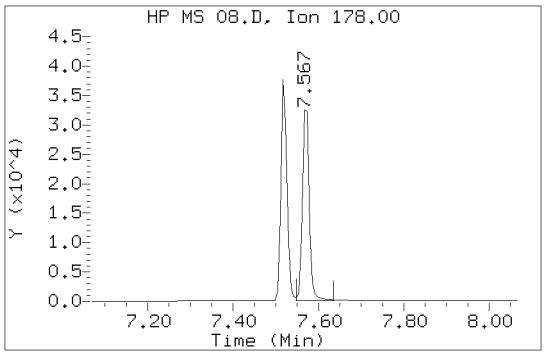
BEFORE

MASS
178
AREA
36102
HEIGHT
32533
18-Dec-2023
10:16
linh
pham



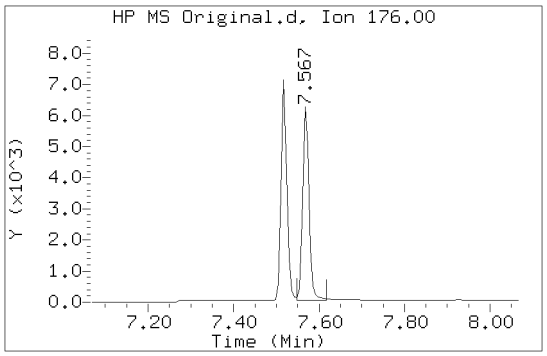
AFTER

MASS
178
AREA
36102
HEIGHT
32533
18-Dec-2023
10:16
linh
pham



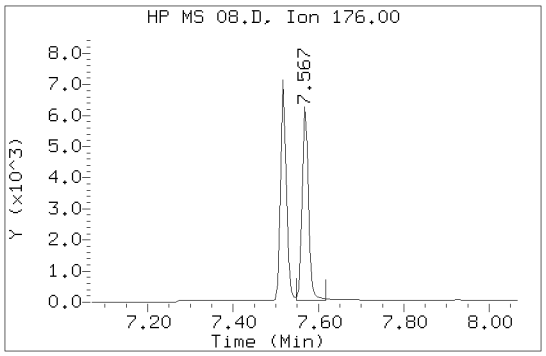
BEFORE

MASS
176
AREA
6322
HEIGHT
6225
18-Dec-2023
10:16
linh
pham



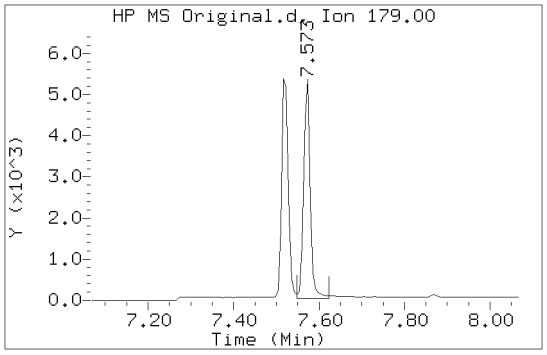
AFTER

MASS
176
AREA
6322
HEIGHT
6225
18-Dec-2023
10:16
linh
pham



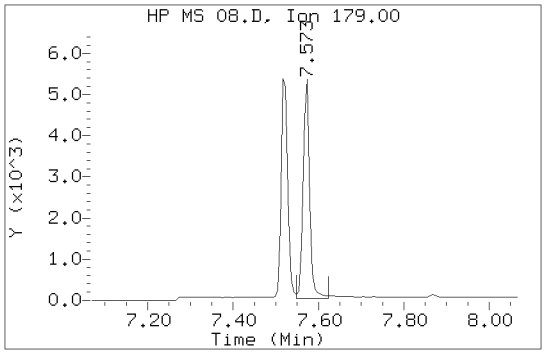
BEFORE

MASS
179
AREA
5546
HEIGHT
5321
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
5546
HEIGHT
5321
18-Dec-2023
10:16
linh
pham

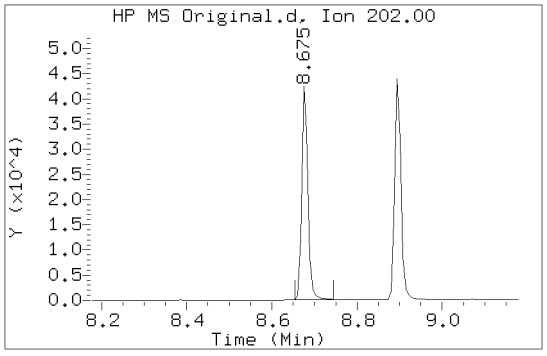


Fluoranthene (206-44-0)

Reason Code:

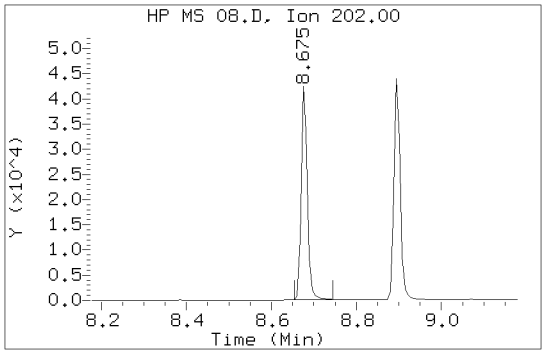
BEFORE

MASS
202
AREA
42723
HEIGHT
42362
18-Dec-2023
10:16
linh
pham



AFTER

MASS
202
AREA
42723
HEIGHT
42362
18-Dec-2023
10:16
linh
pham



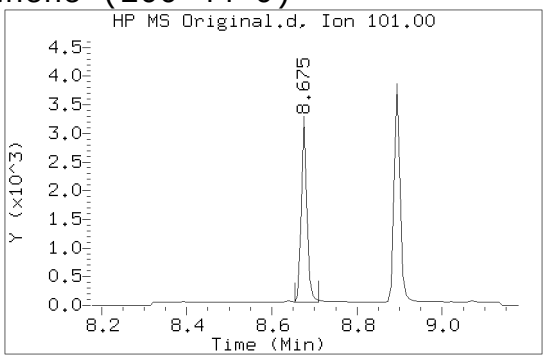
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Fluoranthene (206-44-0)

Reason Code:

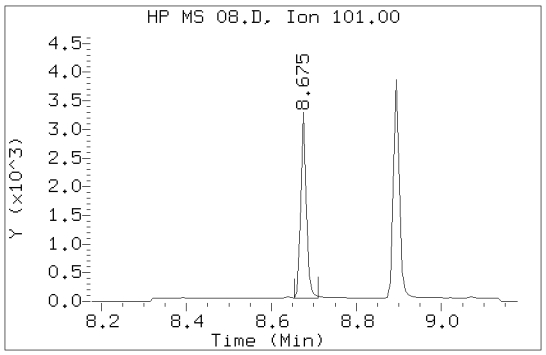
BEFORE

MASS
101
AREA
2971
HEIGHT
3235
18-Dec-2023
10:16
linh
pham



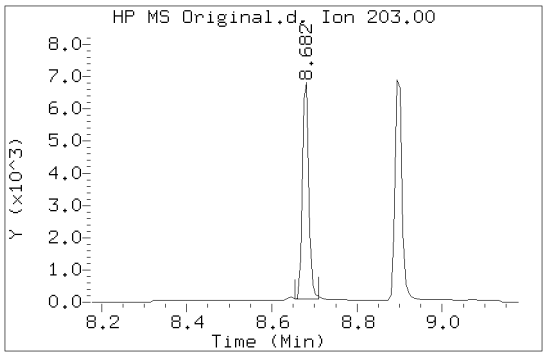
AFTER

MASS
101
AREA
2971
HEIGHT
3235
18-Dec-2023
10:16
linh
pham



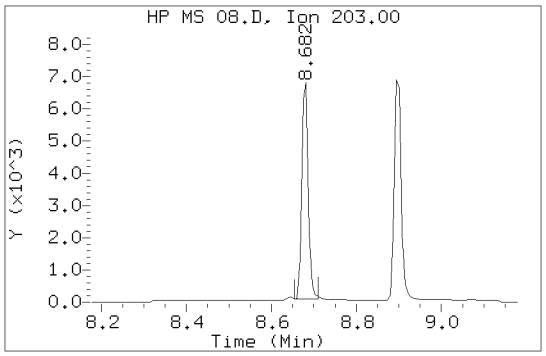
BEFORE

MASS
203
AREA
7180
HEIGHT
6726
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
7180
HEIGHT
6726
18-Dec-2023
10:16
linh
pham

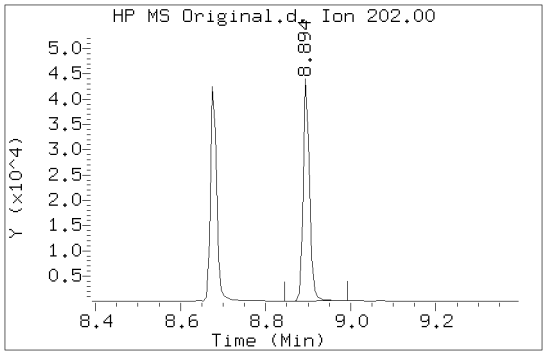


Pyrene (129-00-0)

Reason Code:

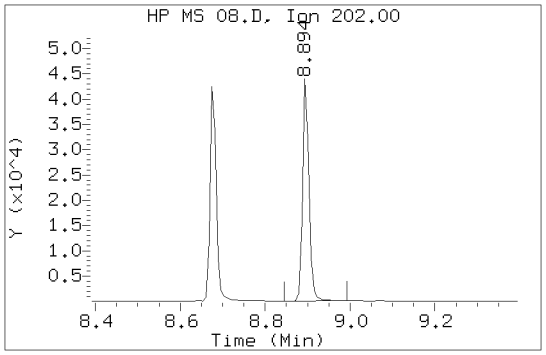
BEFORE

MASS
202
AREA
45084
HEIGHT
43896
18-Dec-2023
10:16
linh
pham



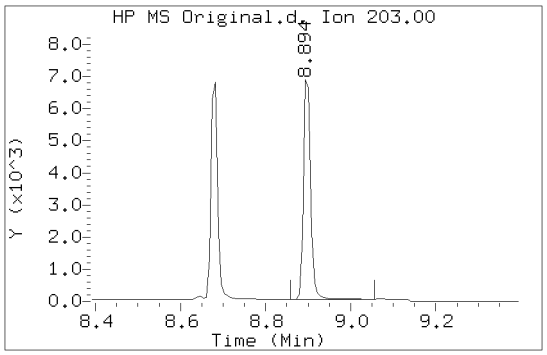
AFTER

MASS
202
AREA
45084
HEIGHT
43896
18-Dec-2023
10:16
linh
pham



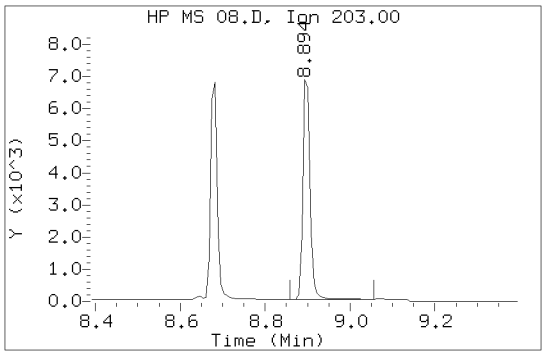
BEFORE

MASS
203
AREA
7919
HEIGHT
6836
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
7919
HEIGHT
6836
18-Dec-2023
10:16
linh
pham



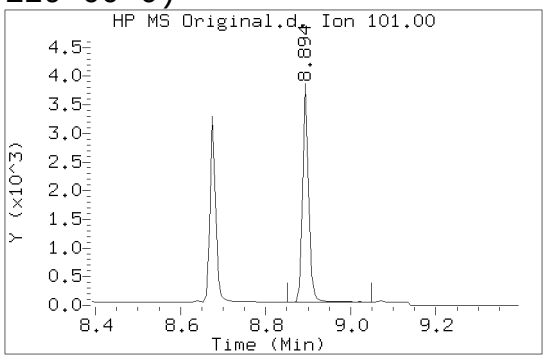
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Pyrene (129-00-0)

Reason Code:

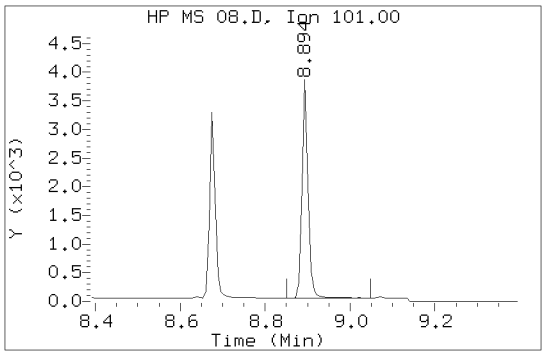
BEFORE

MASS
101
AREA
3749
HEIGHT
3812
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
3749
HEIGHT
3812
18-Dec-2023
10:16
linh
pham

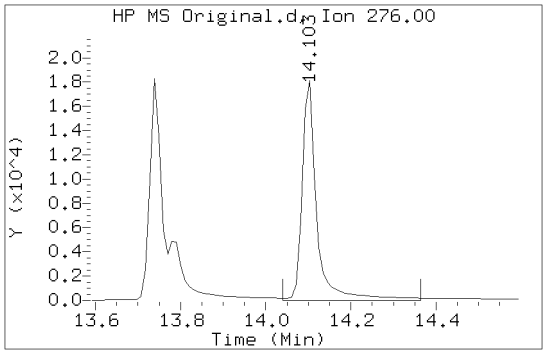


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

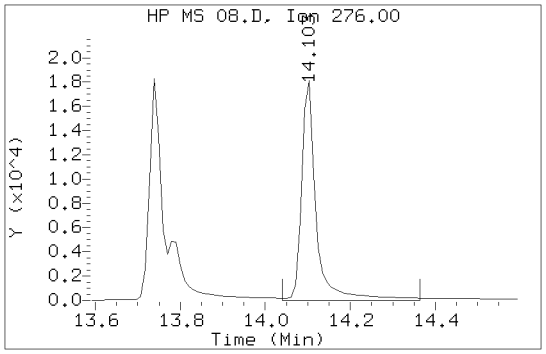
BEFORE

MASS
276
AREA
42774
HEIGHT
18111
18-Dec-2023
10:16
linh
pham



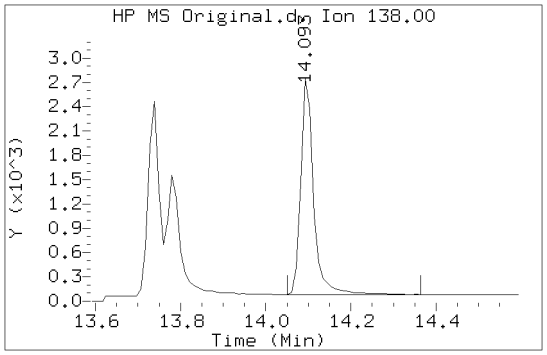
AFTER

MASS
276
AREA
42774
HEIGHT
18111
18-Dec-2023
10:16
linh
pham



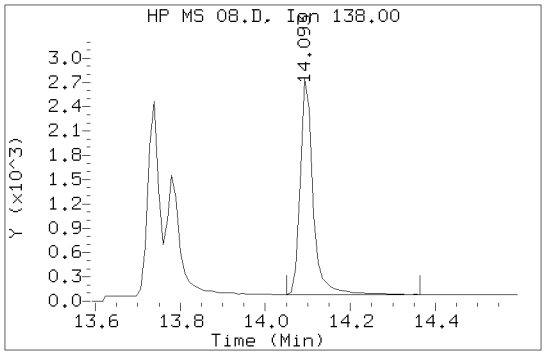
BEFORE

MASS
138
AREA
5536
HEIGHT
2662
18-Dec-2023
10:16
linh
pham



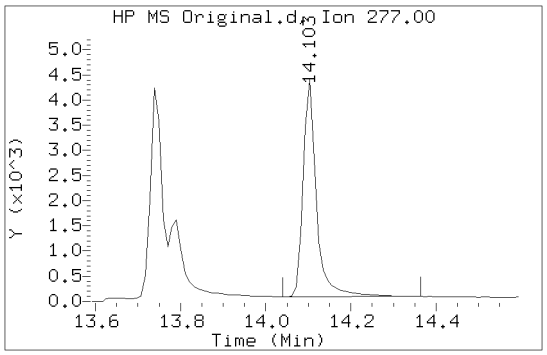
AFTER

MASS
138
AREA
5536
HEIGHT
2662
18-Dec-2023
10:16
linh
pham



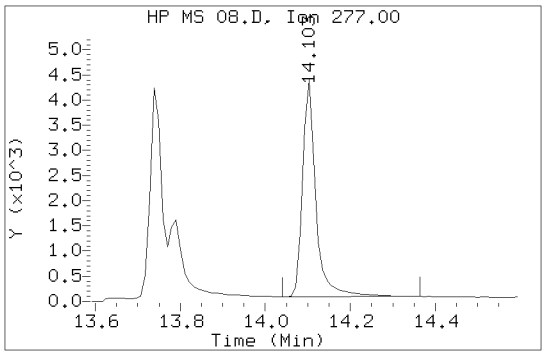
BEFORE

MASS
277
AREA
9389
HEIGHT
4317
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
9389
HEIGHT
4317
18-Dec-2023
10:16
linh
pham



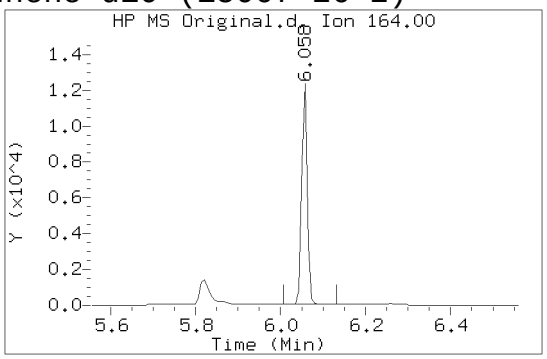
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Acenaphthene-d10 (15067-26-2)

Reason Code:

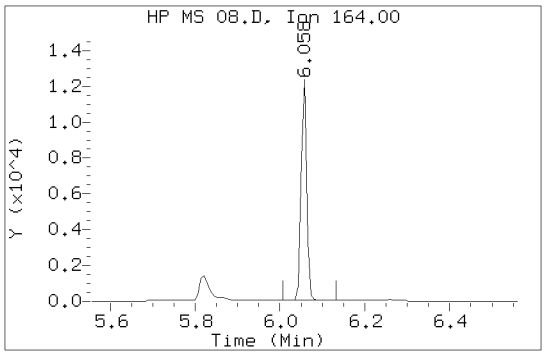
BEFORE

MASS
164
AREA
10954
HEIGHT
12313
18-Dec-2023
10:16
linh
pham



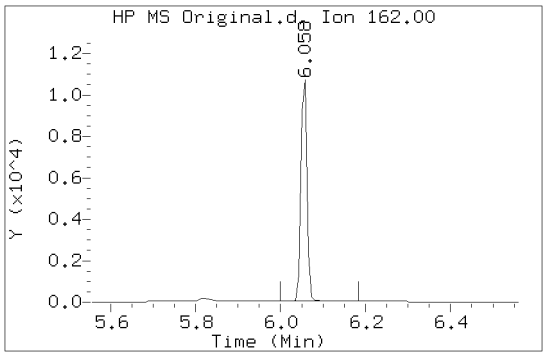
AFTER

MASS
164
AREA
10954
HEIGHT
12313
18-Dec-2023
10:16
linh
pham



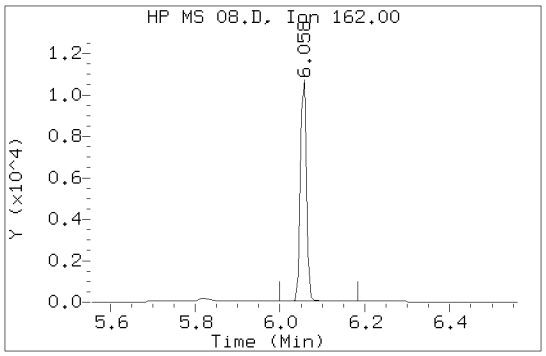
BEFORE

MASS
162
AREA
10539
HEIGHT
10667
18-Dec-2023
10:16
linh
pham



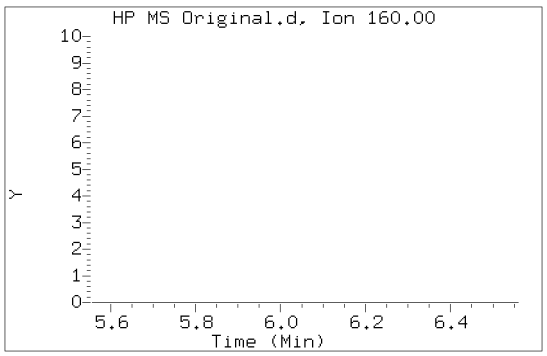
AFTER

MASS
162
AREA
10539
HEIGHT
10667
18-Dec-2023
10:16
linh
pham



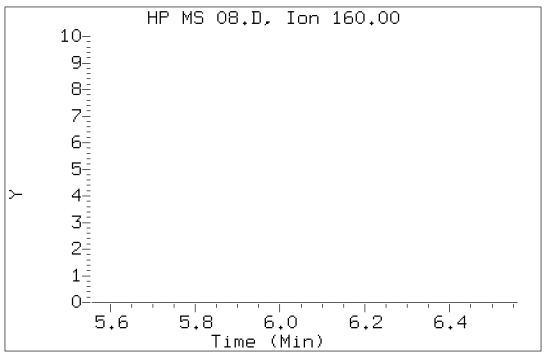
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

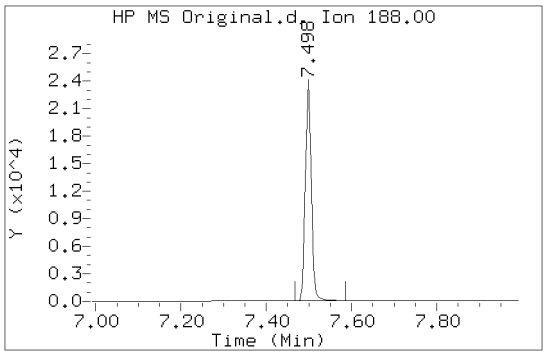


Phenanthrene-d10 (1517-22-2)

Reason Code:

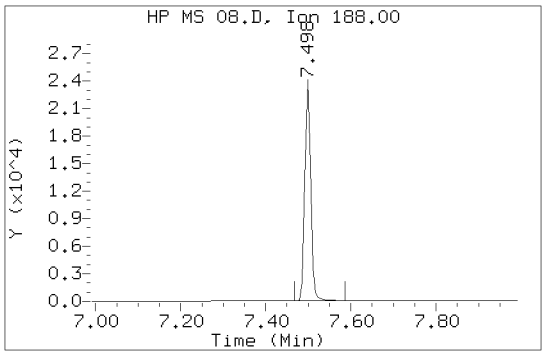
BEFORE

MASS
188
AREA
22321
HEIGHT
24096
18-Dec-2023
10:16
linh
pham



AFTER

MASS
188
AREA
22321
HEIGHT
24096
18-Dec-2023
10:16
linh
pham



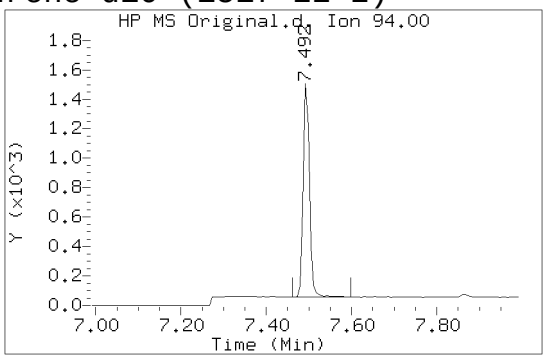
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Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Phenanthrene-d10 (1517-22-2)

Reason Code:

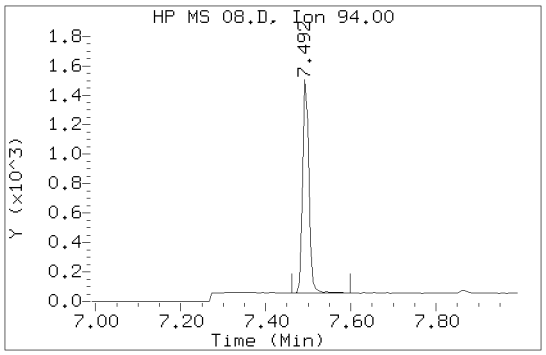
BEFORE

MASS
94
AREA
1436
HEIGHT
1450
18-Dec-2023
10:16
linh
pham



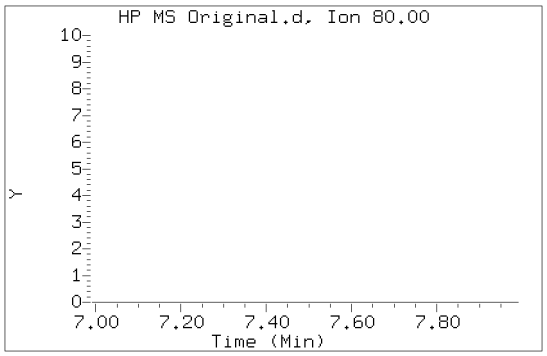
AFTER

MASS
94
AREA
1436
HEIGHT
1450
18-Dec-2023
10:16
linh
pham



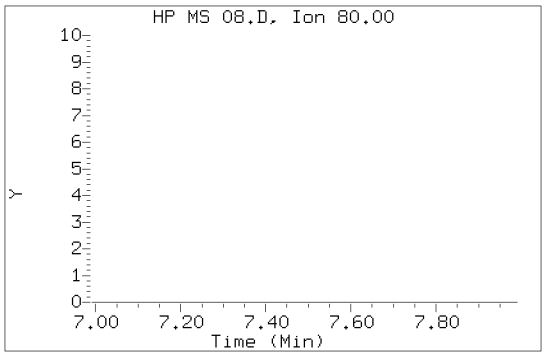
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

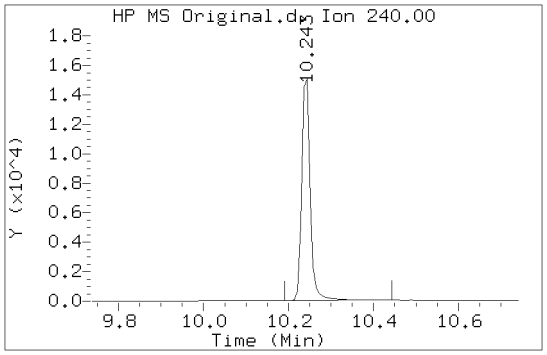


Chrysene-d12 (1719-03-5)

Reason Code:

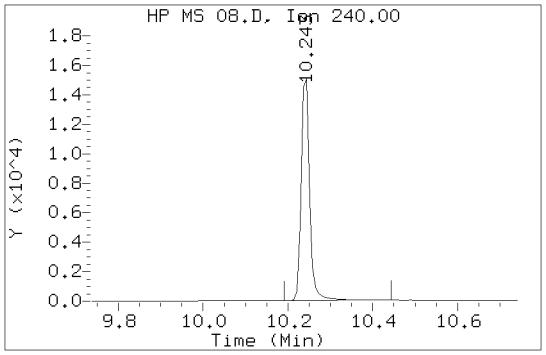
BEFORE

MASS
240
AREA
20983
HEIGHT
15023
18-Dec-2023
10:16
linh
pham



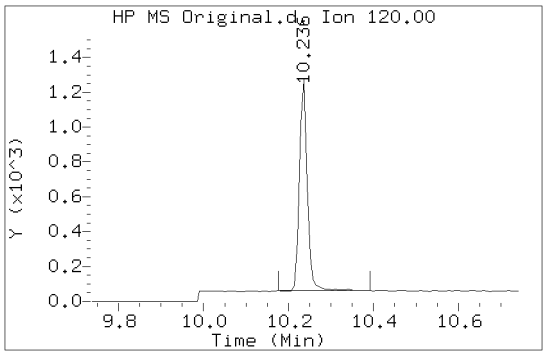
AFTER

MASS
240
AREA
20983
HEIGHT
15023
18-Dec-2023
10:16
linh
pham



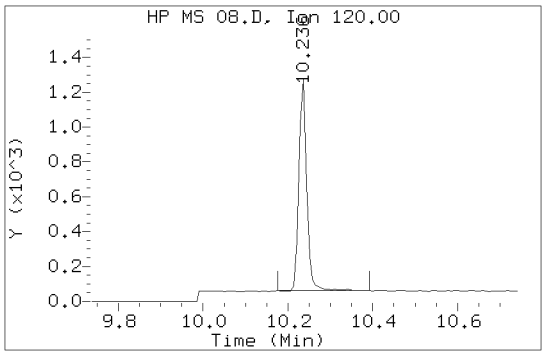
BEFORE

MASS
120
AREA
1547
HEIGHT
1211
18-Dec-2023
10:16
linh
pham



AFTER

MASS
120
AREA
1547
HEIGHT
1211
18-Dec-2023
10:16
linh
pham



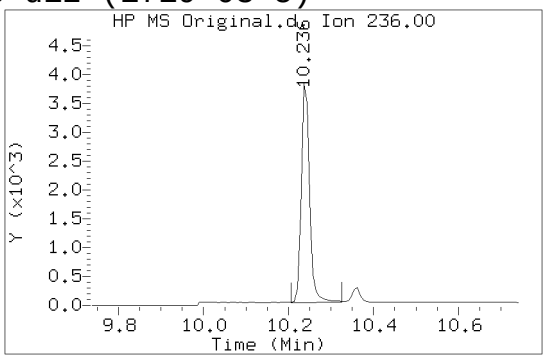
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

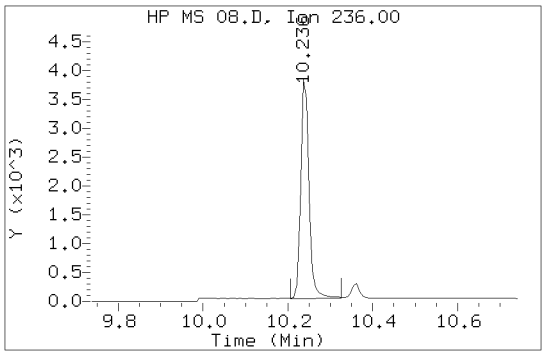
BEFORE

MASS
236
AREA
5163
HEIGHT
3797
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5163
HEIGHT
3797
18-Dec-2023
10:16
linh
pham

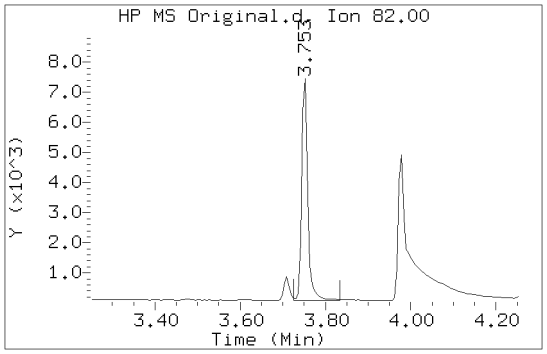


Nitrobenzene-d5 (4165-60-0)

Reason Code:

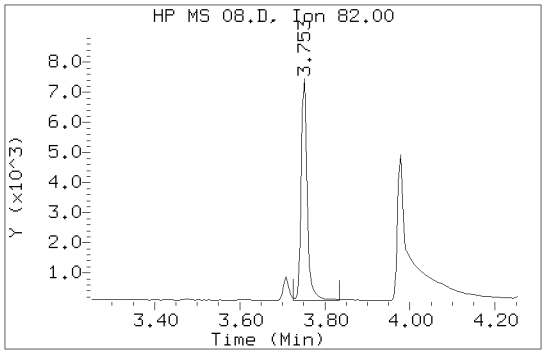
BEFORE

MASS
82
AREA
7134
HEIGHT
7357
18-Dec-2023
10:16
linh
pham



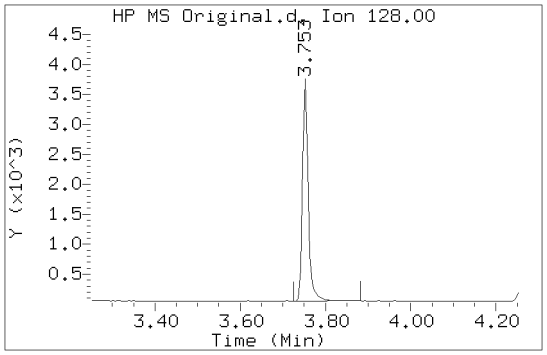
AFTER

MASS
82
AREA
7134
HEIGHT
7357
18-Dec-2023
10:16
linh
pham



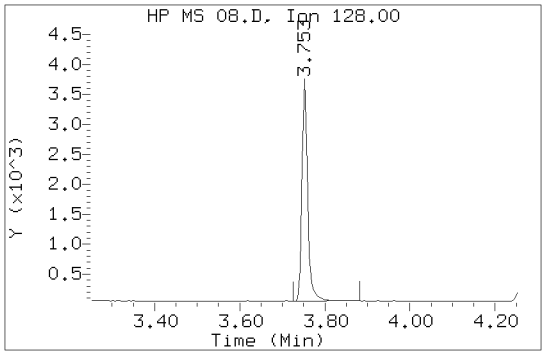
BEFORE

MASS
128
AREA
3358
HEIGHT
3706
18-Dec-2023
10:16
linh
pham



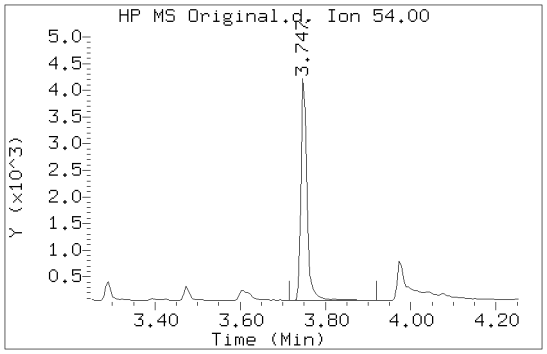
AFTER

MASS
128
AREA
3358
HEIGHT
3706
18-Dec-2023
10:16
linh
pham



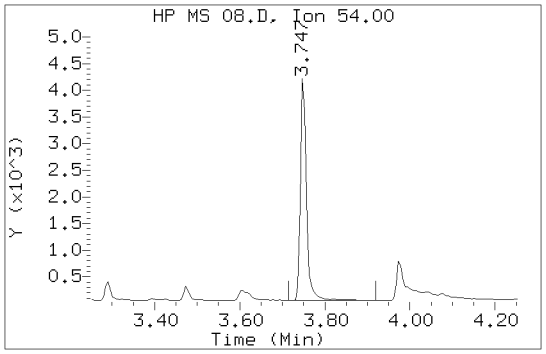
BEFORE

MASS
54
AREA
4005
HEIGHT
4152
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
4005
HEIGHT
4152
18-Dec-2023
10:16
linh
pham



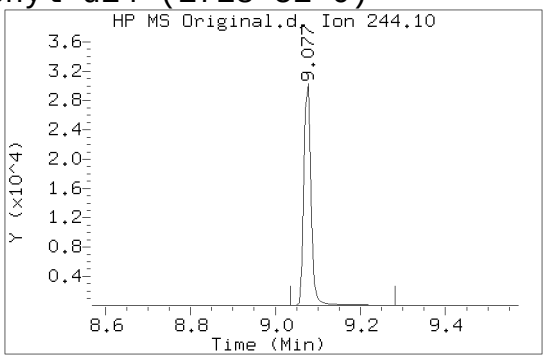
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

4-Terphenyl-d14 (1718-51-0)

Reason Code:

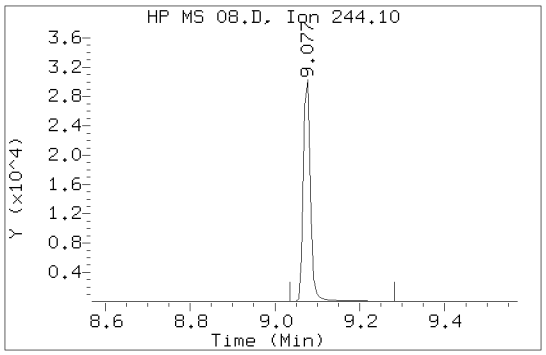
BEFORE

MASS
244.1
AREA
29263
HEIGHT
30253
18-Dec-2023
10:16
linh
pham



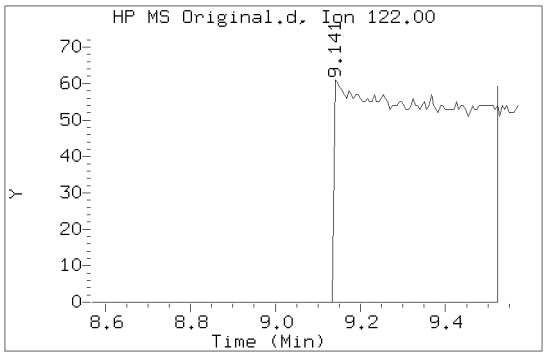
AFTER

MASS
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AREA
29263
HEIGHT
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10:16
linh
pham



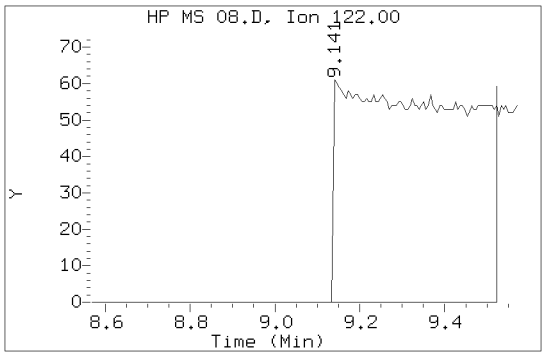
BEFORE

MASS
122
AREA
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HEIGHT
61
18-Dec-2023
10:16
linh
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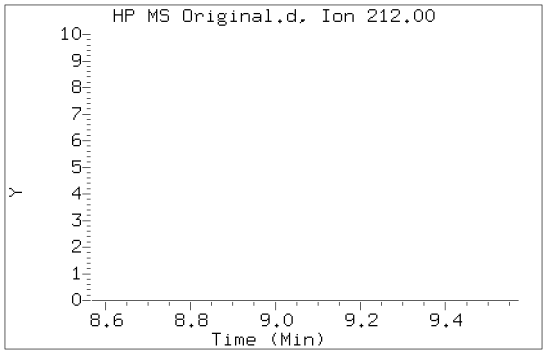
AFTER

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1276
HEIGHT
61
18-Dec-2023
10:16
linh
pham



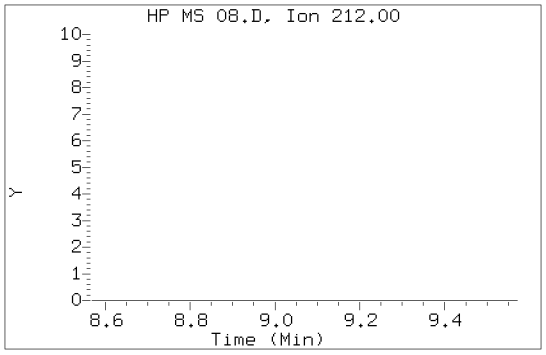
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Lab Smp Id: PAHSIM-0.20 Client Smp ID: PAHSIM-0.20
Inj Date : 12-DEC-2023 15:39
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:19 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	20197	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	11339	0.20000	0.2036(AM)
* 86 Acenaphthene-d10	164	6.056	6.056	(1.000)	12397	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	40079	0.20000	0.2030(AM)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	25613	0.10000	(M)
* 182 Chrysene-d12	240	10.235	10.235	(1.000)	24600	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.887)	47723	0.20000	0.1910(AM)
* 198 Perylene-d12	264	12.218	12.218	(1.000)	25962	0.10000	
46 Naphthalene	128	4.407	4.407	(1.004)	44126	0.20000	0.1991(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	30275	0.20000	0.2043(M)
62 1-Methylnaphthalene	142	5.151	5.151	(1.204)	28126	0.20000	0.2034
83 Acenaphthylene	152	5.915	5.915	(0.977)	46661	0.20000	0.2058
88 Acenaphthene	154	6.086	6.086	(1.005)	28559	0.20000	0.1998
98 Fluorene	166	6.588	6.588	(1.088)	35908	0.20000	0.2044
92 Dibenzofuran	168	6.717	6.717	(1.109)	18738	0.20000	0.2022(AM)
128 Phenanthrene	178	7.516	7.516	(1.002)	56684	0.20000	0.2022
130 Anthracene	178	7.566	7.566	(1.009)	56240	0.20000	0.2013(M)
149 Fluoranthene	202	8.674	8.674	(1.157)	66819	0.20000	0.2004
155 Pyrene	202	8.893	8.893	(0.869)	71204	0.20000	0.1991(M)

181 Benzo(a)Anthracene	228	10.221	10.221 (0.999)	67102	0.20000	0.2012(M)
183 Chrysene	228	10.265	10.265 (1.003)	74306	0.20000	0.1998(M)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.956)	62840	0.20000	0.1950
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.959)	77579	0.20000	0.1989(M)
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	64341	0.20000	0.2060(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	74022	0.20000	0.1980(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.129)	64775	0.20000	0.2086(M)
212 Benzo(g,h,i)perylene	276	14.103	14.103	(1.154)	68404	0.20000	0.2049(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D

Date : 12-DEC-2023 15:39

Client ID: PAHSIM-0.20

Instrument: SV6.i

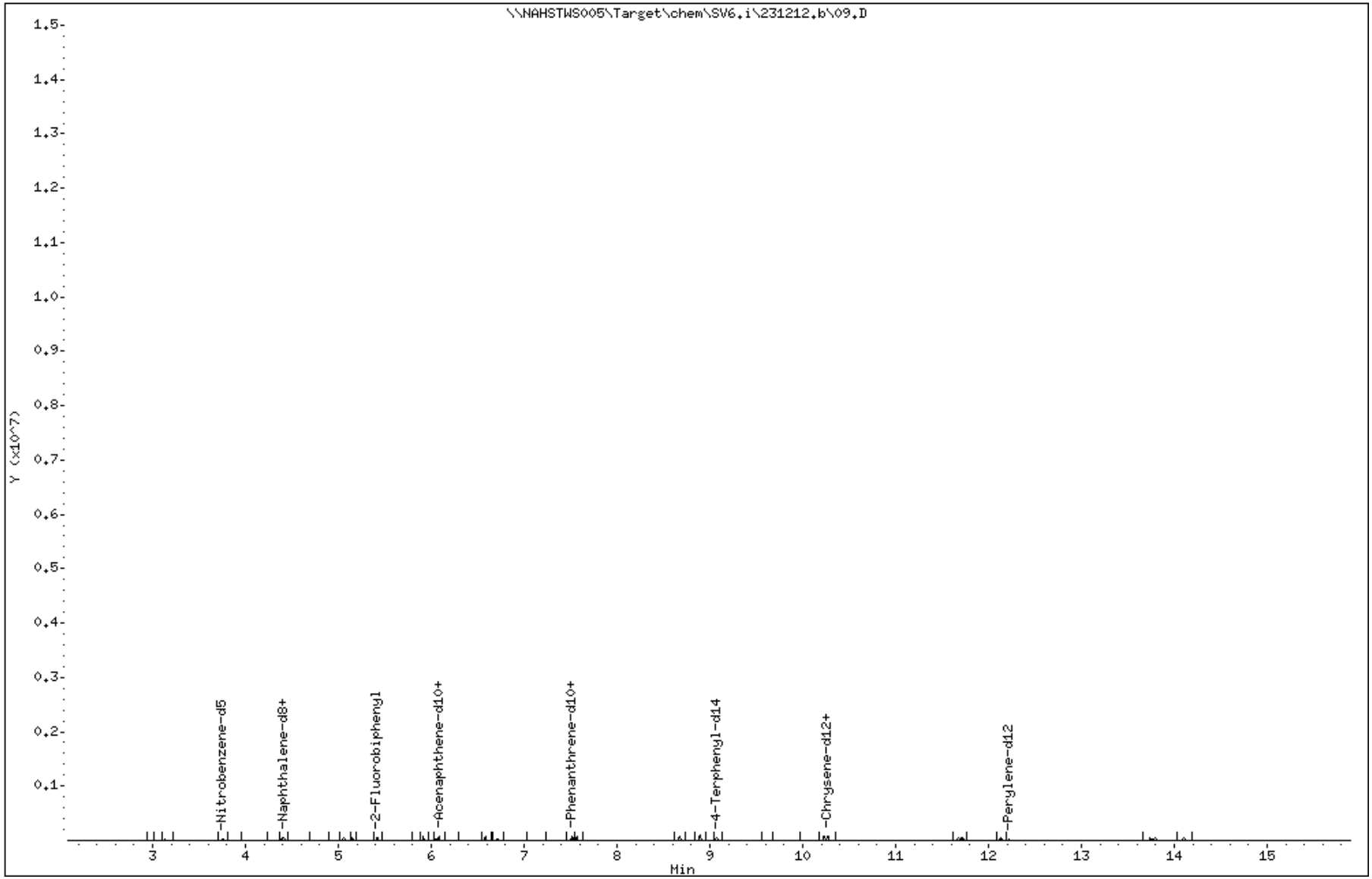
Sample Info: PAHSIM-0.20

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



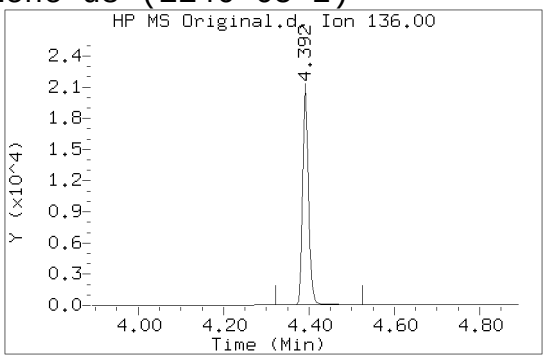
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Naphthalene-d8 (1146-65-2)

Reason Code:

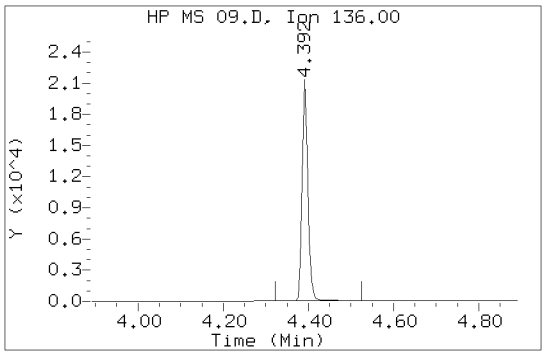
BEFORE

MASS
136
AREA
20197
HEIGHT
21278
18-Dec-2023
10:16
linh
pham



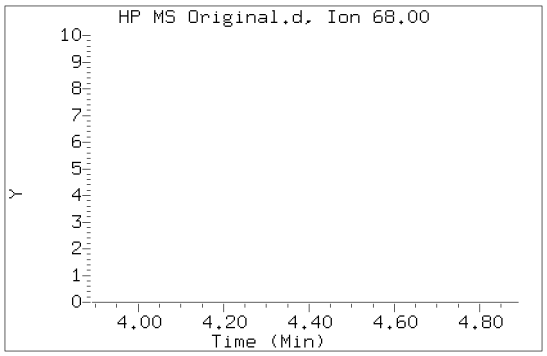
AFTER

MASS
136
AREA
20197
HEIGHT
21278
18-Dec-2023
10:16
linh
pham



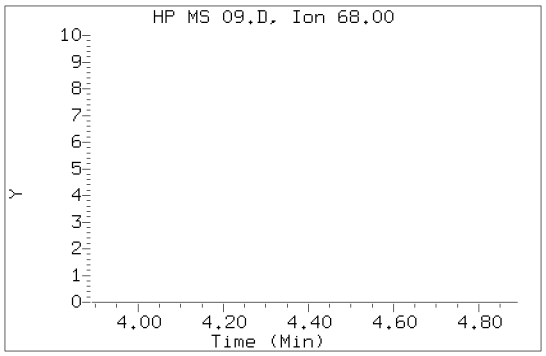
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

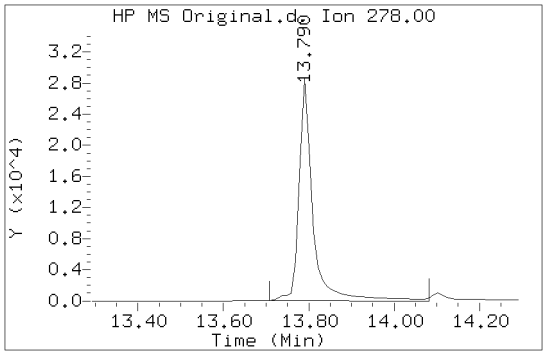


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

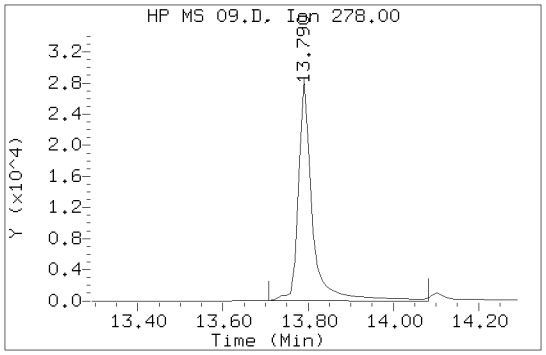
BEFORE

MASS
278
AREA
64775
HEIGHT
28507
18-Dec-2023
10:16
linh
pham



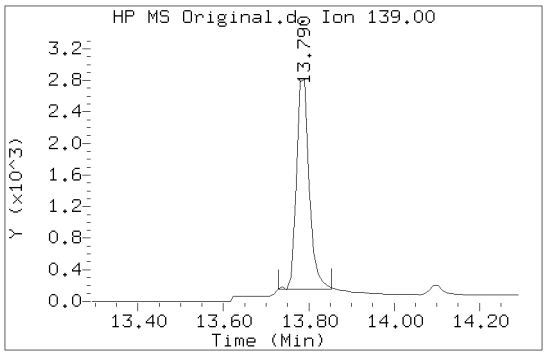
AFTER

MASS
278
AREA
64775
HEIGHT
28507
18-Dec-2023
10:16
linh
pham



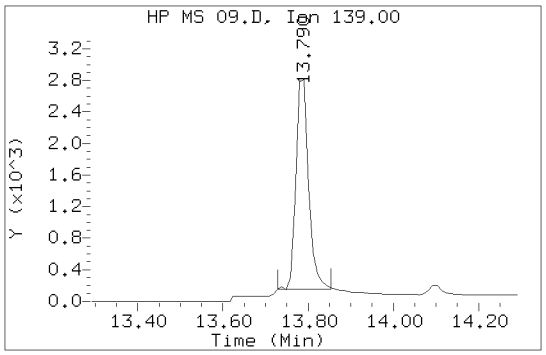
BEFORE

MASS
139
AREA
5454
HEIGHT
2652
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
5454
HEIGHT
2652
18-Dec-2023
10:16
linh
pham



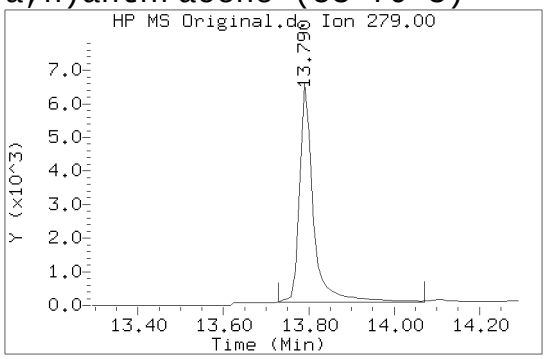
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

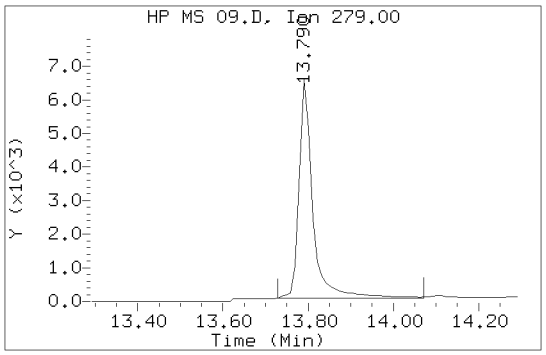
BEFORE

MASS
279
AREA
14451
HEIGHT
6499
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
14451
HEIGHT
6499
18-Dec-2023
10:16
linh
pham

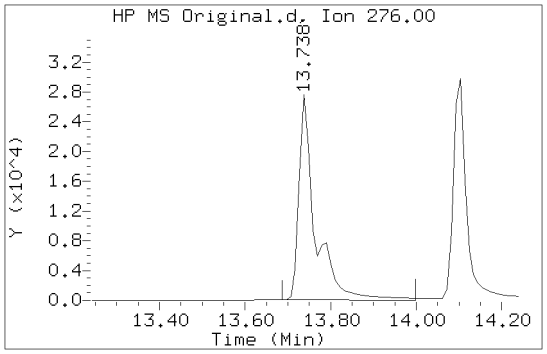


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

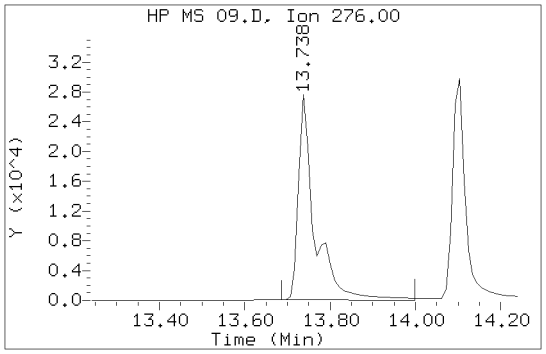
BEFORE

MASS
276
AREA
74022
HEIGHT
27593
18-Dec-2023
10:16
linh
pham



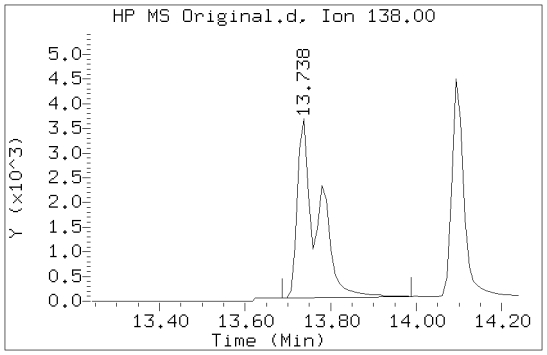
AFTER

MASS
276
AREA
74022
HEIGHT
27593
18-Dec-2023
10:16
linh
pham



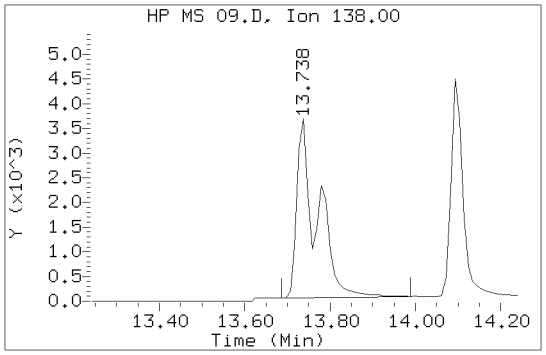
BEFORE

MASS
138
AREA
11944
HEIGHT
3635
18-Dec-2023
10:16
linh
pham



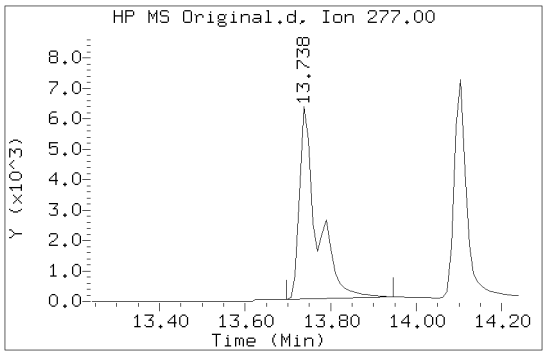
AFTER

MASS
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AREA
11944
HEIGHT
3635
18-Dec-2023
10:16
linh
pham



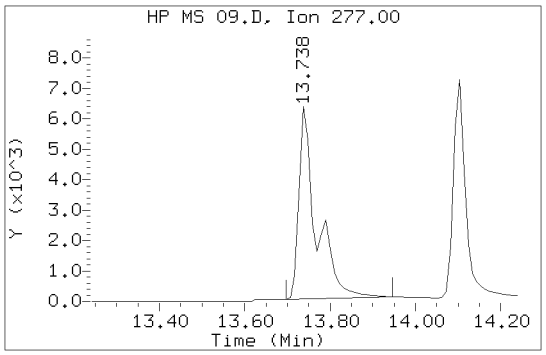
BEFORE

MASS
277
AREA
17958
HEIGHT
6332
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
17958
HEIGHT
6332
18-Dec-2023
10:16
linh
pham



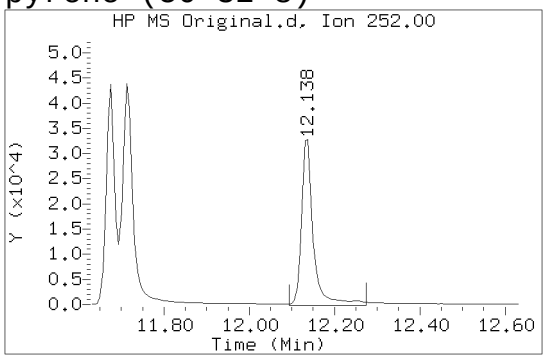
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(a)pyrene (50-32-8)

Reason Code:

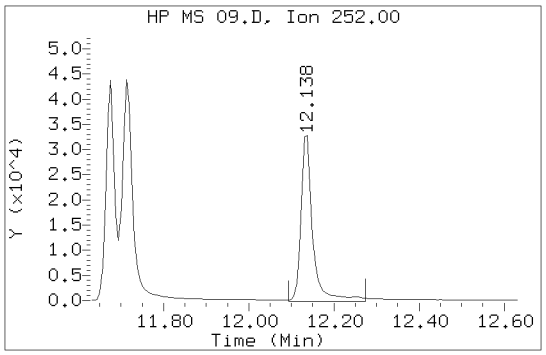
BEFORE

MASS
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AREA
64341
HEIGHT
32933
18-Dec-2023
10:16
linh
pham



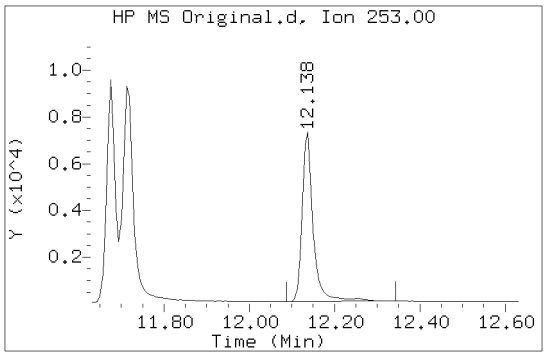
AFTER

MASS
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AREA
64341
HEIGHT
32933
18-Dec-2023
10:16
linh
pham



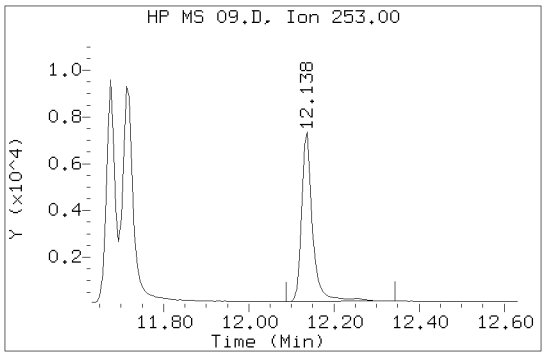
BEFORE

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13238
HEIGHT
7270
18-Dec-2023
10:16
linh
pham



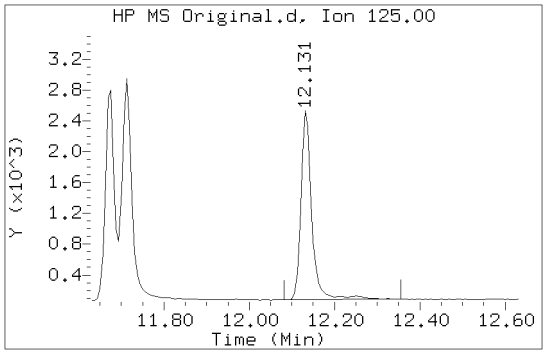
AFTER

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18-Dec-2023
10:16
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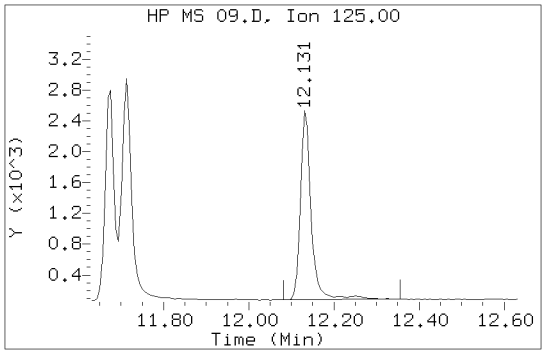
BEFORE

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125
AREA
4385
HEIGHT
2456
18-Dec-2023
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linh
pham



AFTER

MASS
125
AREA
4385
HEIGHT
2456
18-Dec-2023
10:16
linh
pham

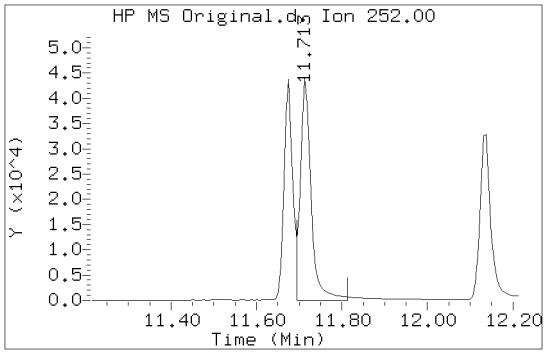


Benzo(k)fluoranthene (207-08-9)

Reason Code:

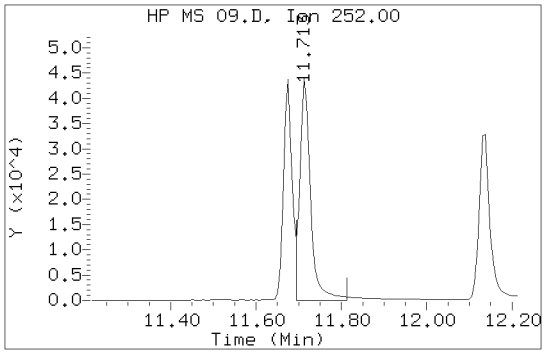
BEFORE

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252
AREA
77579
HEIGHT
43820
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
77579
HEIGHT
43820
18-Dec-2023
10:16
linh
pham



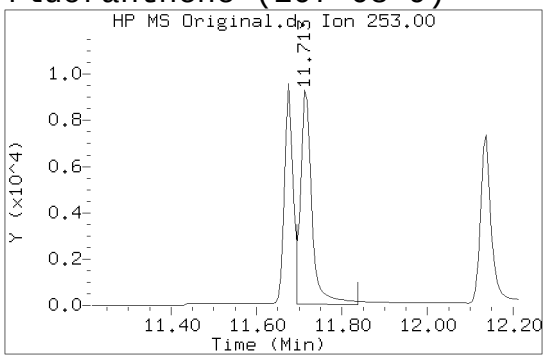
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(k)fluoranthene (207-08-9)

Reason Code:

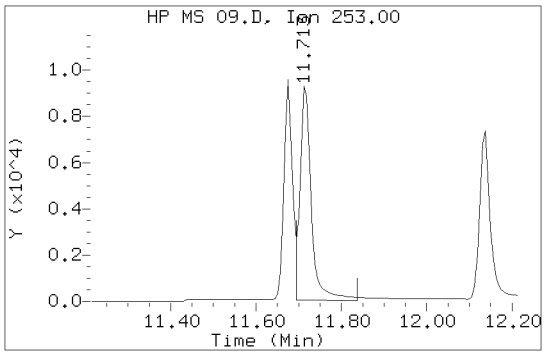
BEFORE

MASS
253
AREA
17280
HEIGHT
9264
18-Dec-2023
10:16
linh
pham



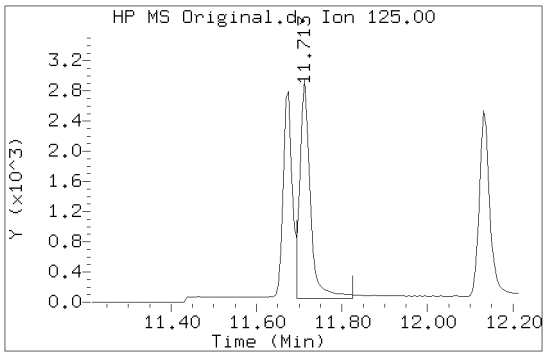
AFTER

MASS
253
AREA
17280
HEIGHT
9264
18-Dec-2023
10:16
linh
pham



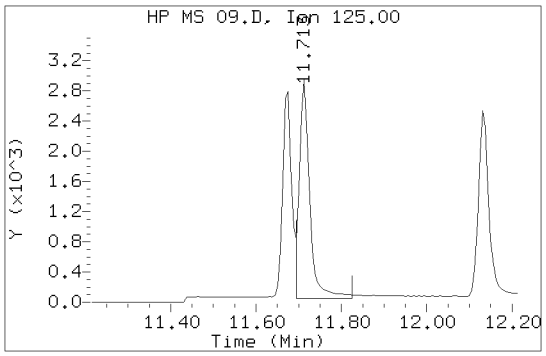
BEFORE

MASS
125
AREA
5006
HEIGHT
2896
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
5006
HEIGHT
2896
18-Dec-2023
10:16
linh
pham

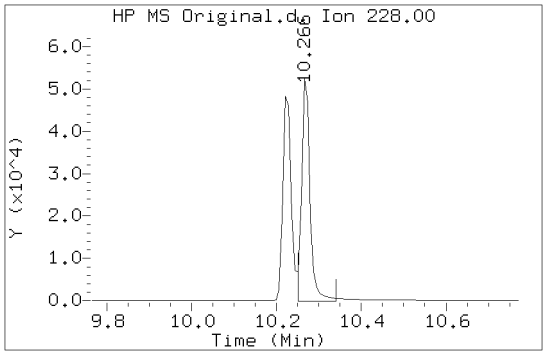


Chrysene (218-01-9)

Reason Code:

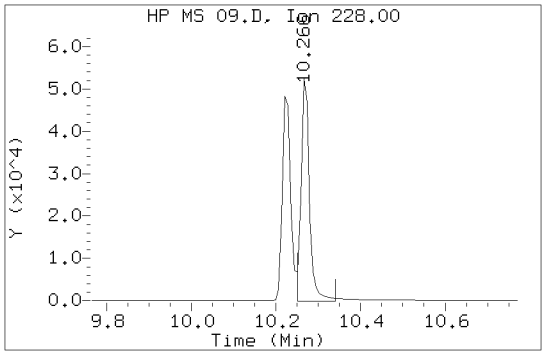
BEFORE

MASS
228
AREA
74306
HEIGHT
52462
18-Dec-2023
10:16
linh
pham



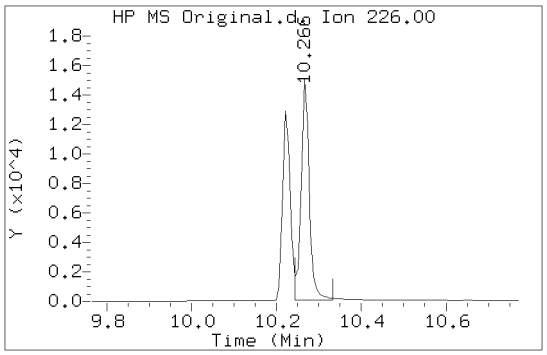
AFTER

MASS
228
AREA
74306
HEIGHT
52462
18-Dec-2023
10:16
linh
pham



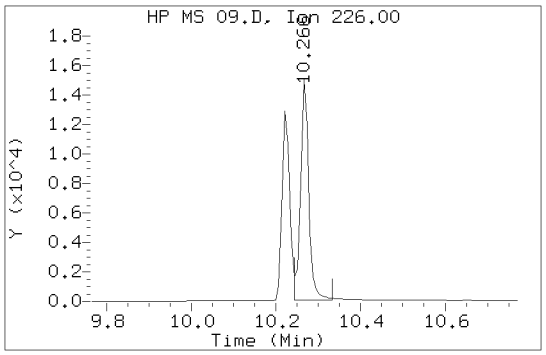
BEFORE

MASS
226
AREA
20815
HEIGHT
14976
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
20815
HEIGHT
14976
18-Dec-2023
10:16
linh
pham



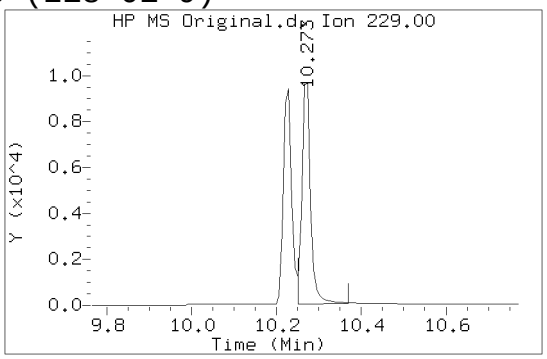
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Chrysene (218-01-9)

Reason Code:

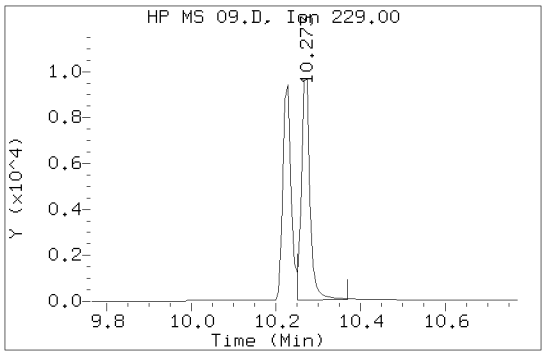
BEFORE

MASS
229
AREA
14264
HEIGHT
9593
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
14264
HEIGHT
9593
18-Dec-2023
10:16
linh
pham

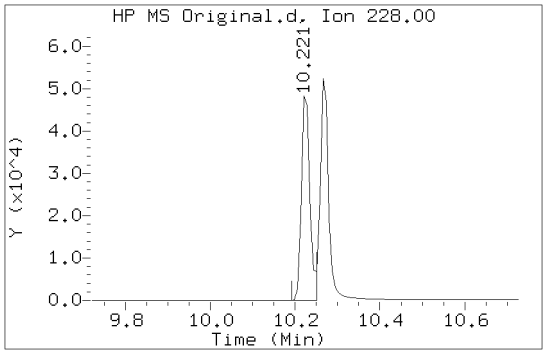


Benzo(a)Anthracene (56-55-3)

Reason Code:

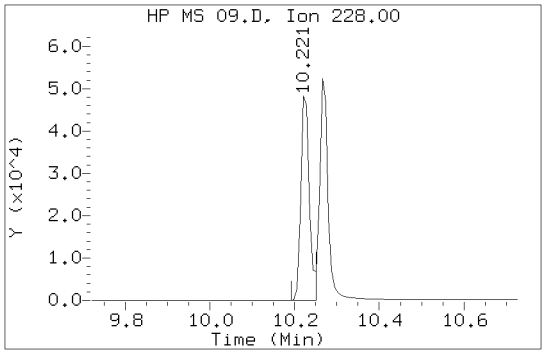
BEFORE

MASS
228
AREA
67102
HEIGHT
48245
18-Dec-2023
10:16
linh
pham



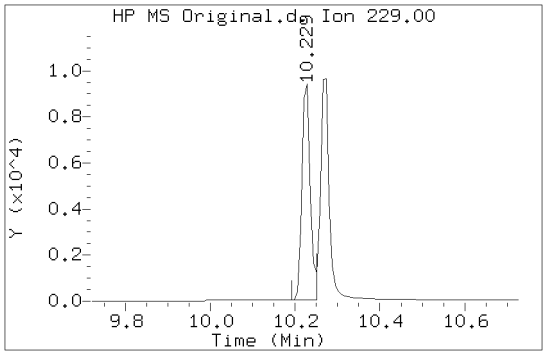
AFTER

MASS
228
AREA
67102
HEIGHT
48245
18-Dec-2023
10:16
linh
pham



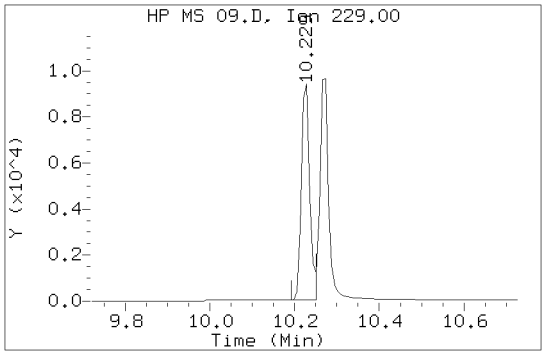
BEFORE

MASS
229
AREA
12851
HEIGHT
9394
18-Dec-2023
10:16
linh
pham



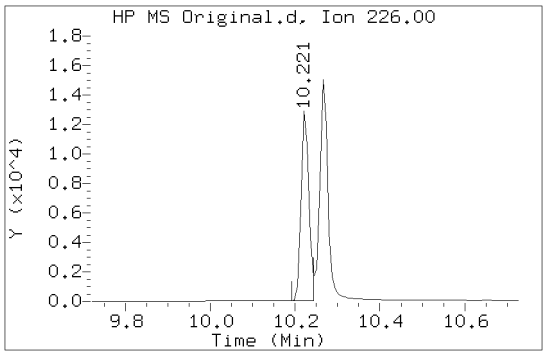
AFTER

MASS
229
AREA
12851
HEIGHT
9394
18-Dec-2023
10:16
linh
pham



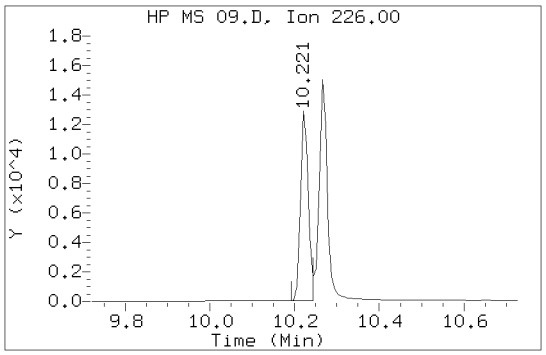
BEFORE

MASS
226
AREA
16283
HEIGHT
12886
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
16283
HEIGHT
12886
18-Dec-2023
10:16
linh
pham



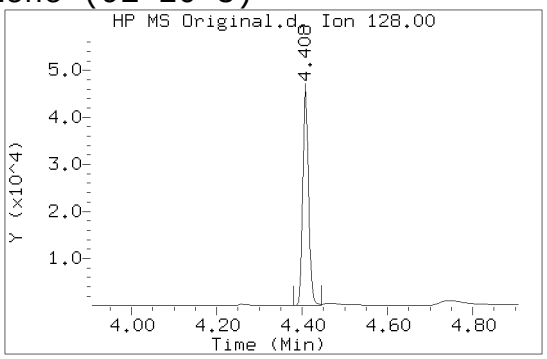
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Naphthalene (91-20-3)

Reason Code:

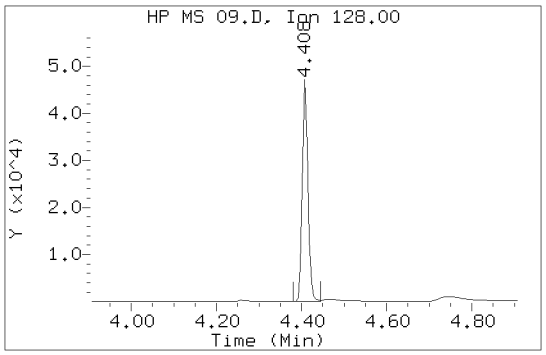
BEFORE

MASS
128
AREA
44126
HEIGHT
47089
18-Dec-2023
10:16
linh
pham



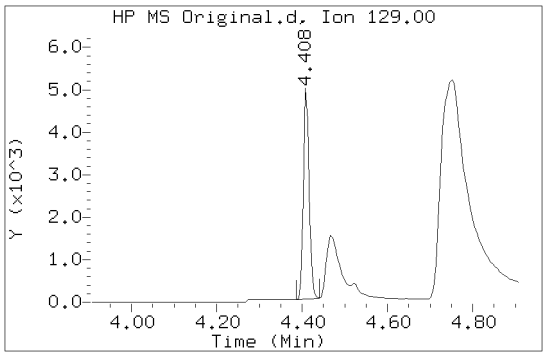
AFTER

MASS
128
AREA
44126
HEIGHT
47089
18-Dec-2023
10:16
linh
pham



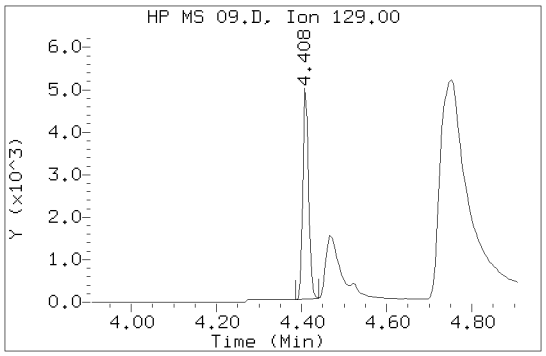
BEFORE

MASS
129
AREA
4723
HEIGHT
4969
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
4723
HEIGHT
4969
18-Dec-2023
10:16
linh
pham

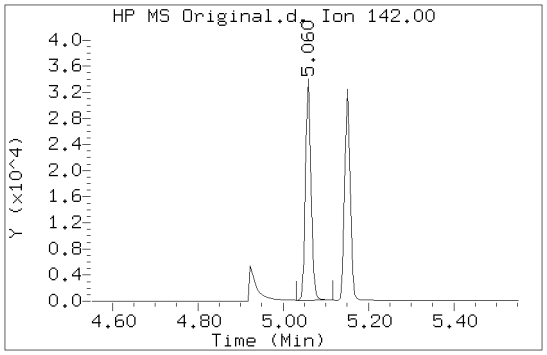


2-Methylnaphthalene (91-57-6)

Reason Code:

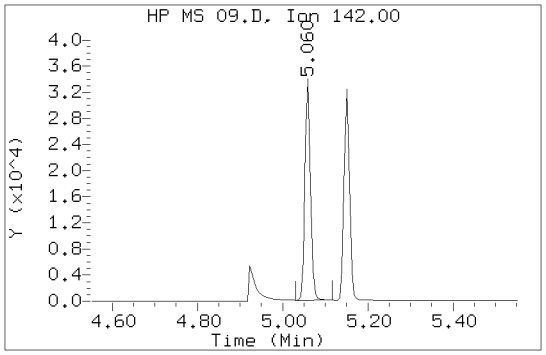
BEFORE

MASS
142
AREA
30275
HEIGHT
33892
18-Dec-2023
10:16
linh
pham



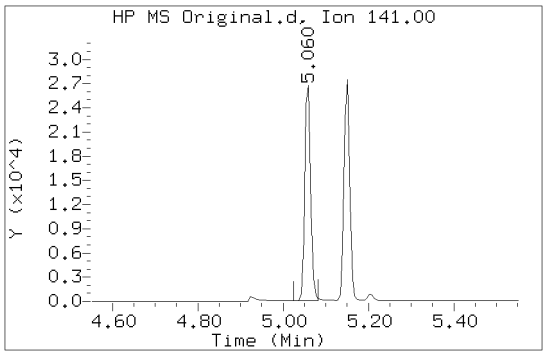
AFTER

MASS
142
AREA
30275
HEIGHT
33892
18-Dec-2023
10:16
linh
pham



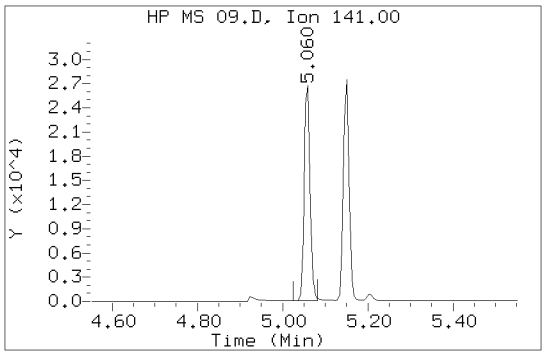
BEFORE

MASS
141
AREA
25610
HEIGHT
26726
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
25610
HEIGHT
26726
18-Dec-2023
10:16
linh
pham



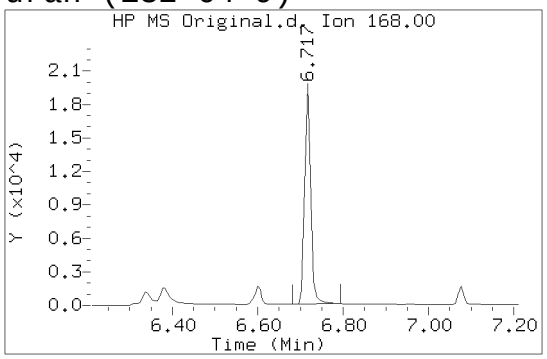
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Dibenzofuran (132-64-9)

Reason Code:

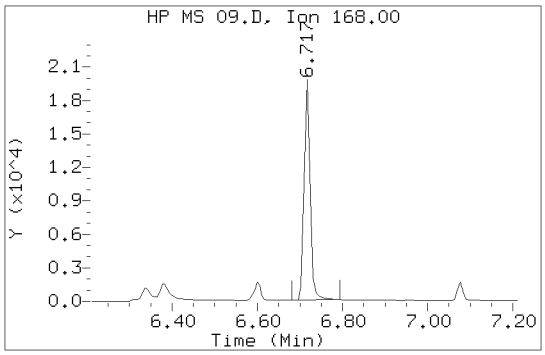
BEFORE

MASS
168
AREA
18738
HEIGHT
19747
18-Dec-2023
10:16
linh
pham



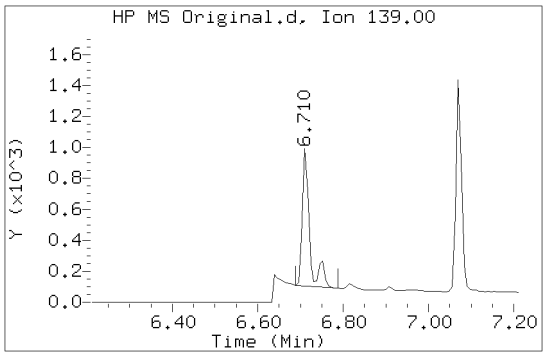
AFTER

MASS
168
AREA
18738
HEIGHT
19747
18-Dec-2023
10:16
linh
pham



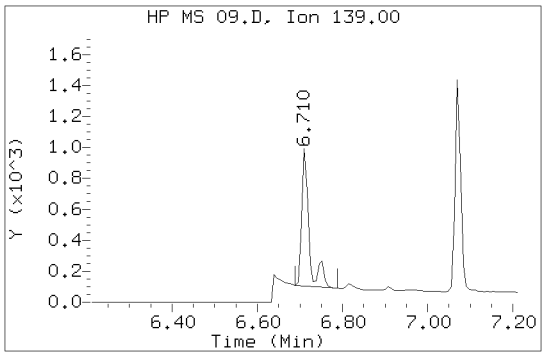
BEFORE

MASS
139
AREA
1040
HEIGHT
891
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
1040
HEIGHT
891
18-Dec-2023
10:16
linh
pham

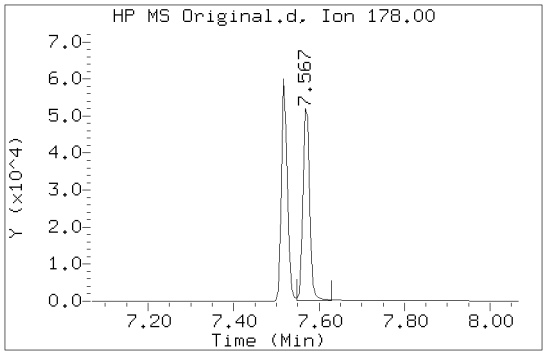


Anthracene (120-12-7)

Reason Code:

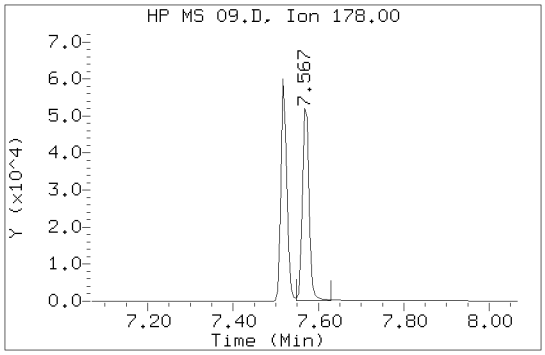
BEFORE

MASS
178
AREA
56240
HEIGHT
51854
18-Dec-2023
10:16
linh
pham



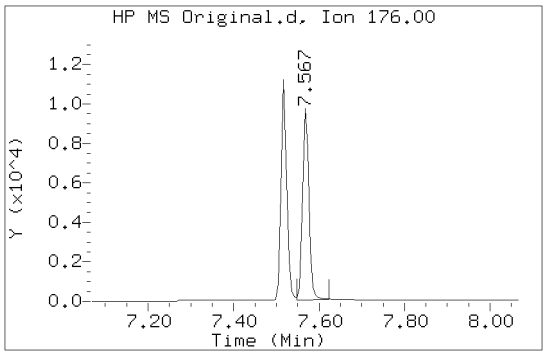
AFTER

MASS
178
AREA
56240
HEIGHT
51854
18-Dec-2023
10:16
linh
pham



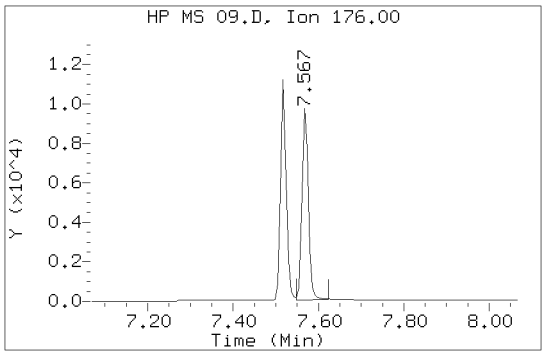
BEFORE

MASS
176
AREA
9794
HEIGHT
9685
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
9794
HEIGHT
9685
18-Dec-2023
10:16
linh
pham



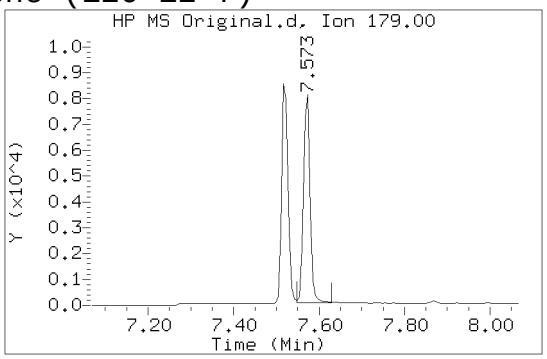
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Anthracene (120-12-7)

Reason Code:

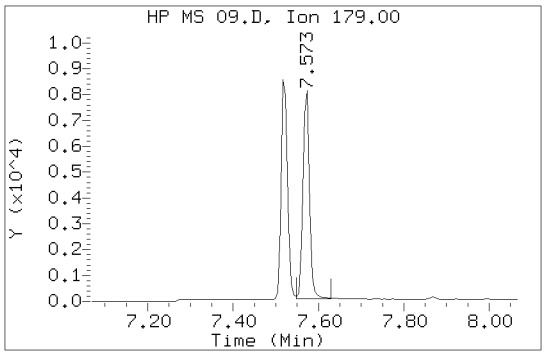
BEFORE

MASS
179
AREA
8519
HEIGHT
8067
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
8519
HEIGHT
8067
18-Dec-2023
10:16
linh
pham

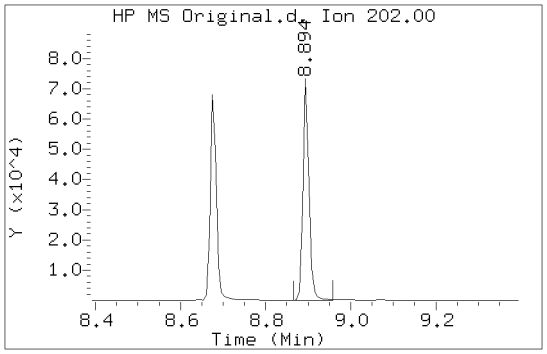


Pyrene (129-00-0)

Reason Code:

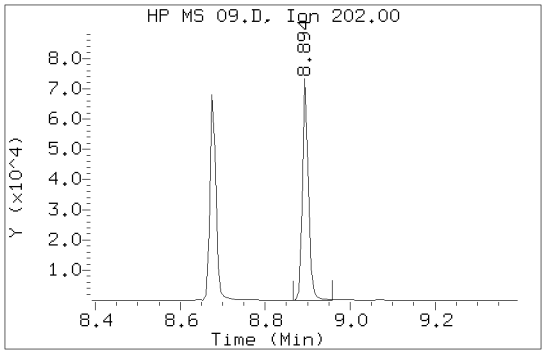
BEFORE

MASS
202
AREA
71204
HEIGHT
73233
18-Dec-2023
10:16
linh
pham



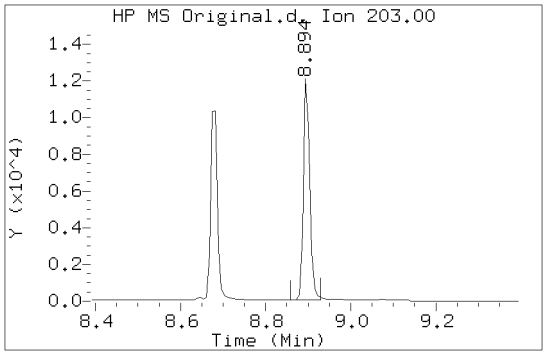
AFTER

MASS
202
AREA
71204
HEIGHT
73233
18-Dec-2023
10:16
linh
pham



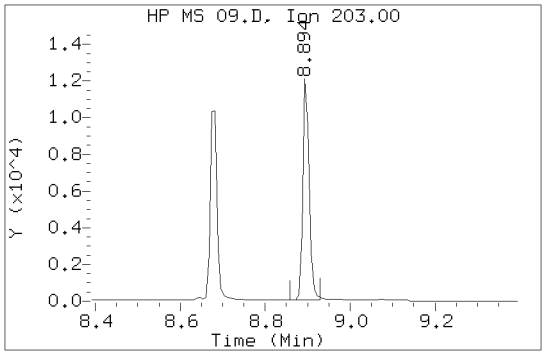
BEFORE

MASS
203
AREA
12346
HEIGHT
12049
18-Dec-2023
10:16
linh
pham



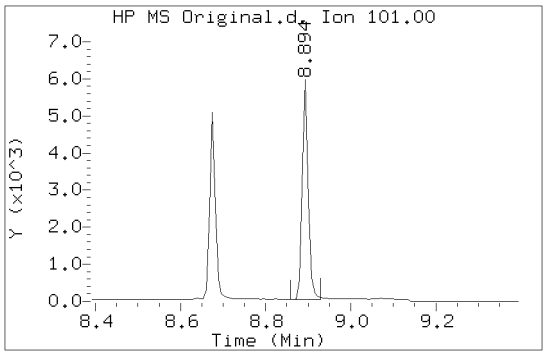
AFTER

MASS
203
AREA
12346
HEIGHT
12049
18-Dec-2023
10:16
linh
pham



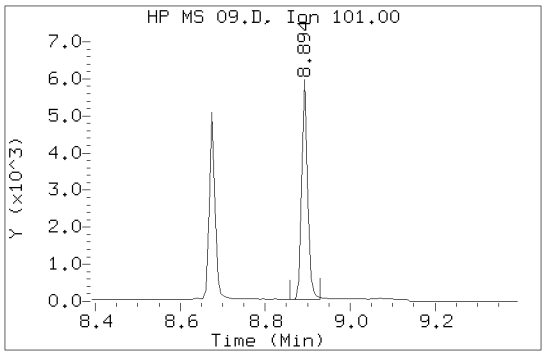
BEFORE

MASS
101
AREA
5784
HEIGHT
5919
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
5784
HEIGHT
5919
18-Dec-2023
10:16
linh
pham



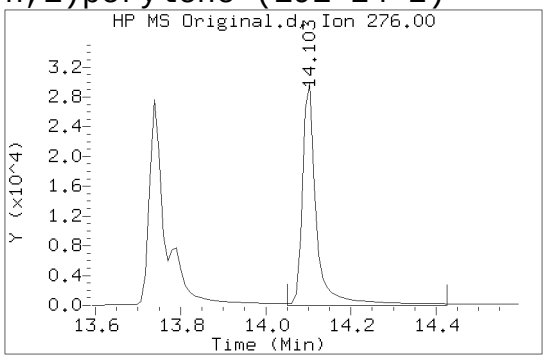
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

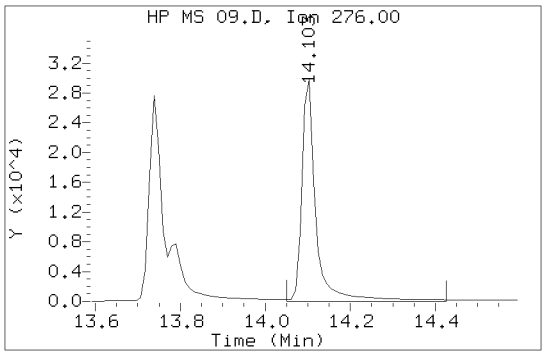
BEFORE

MASS
276
AREA
68404
HEIGHT
29782
18-Dec-2023
10:16
linh
pham



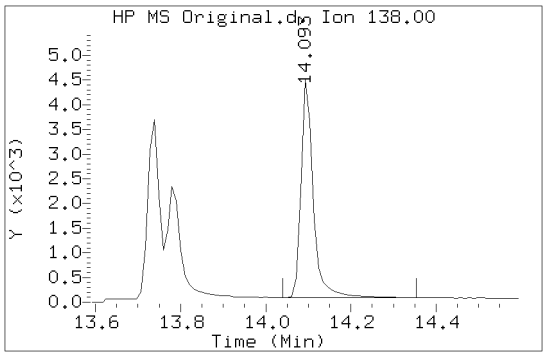
AFTER

MASS
276
AREA
68404
HEIGHT
29782
18-Dec-2023
10:16
linh
pham



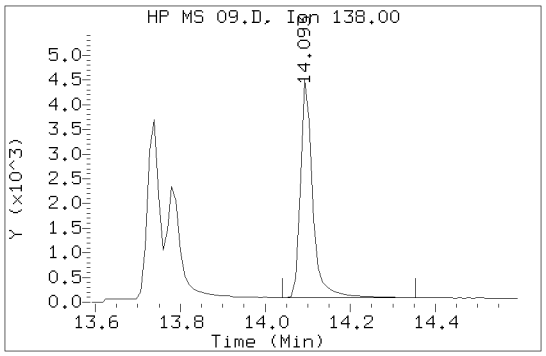
BEFORE

MASS
138
AREA
8729
HEIGHT
4411
18-Dec-2023
10:16
linh
pham



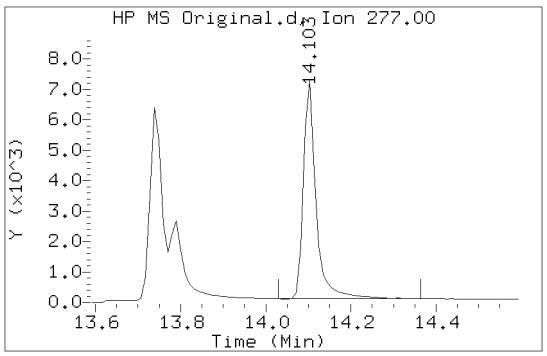
AFTER

MASS
138
AREA
8729
HEIGHT
4411
18-Dec-2023
10:16
linh
pham



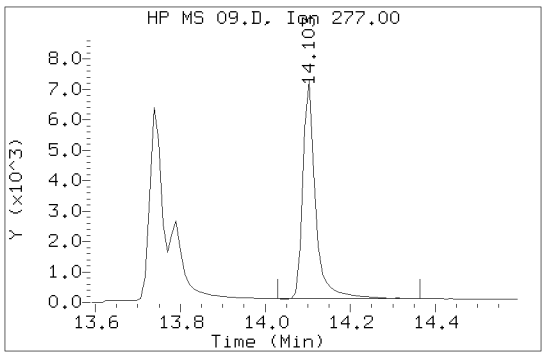
BEFORE

MASS
277
AREA
14756
HEIGHT
7165
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
14756
HEIGHT
7165
18-Dec-2023
10:16
linh
pham

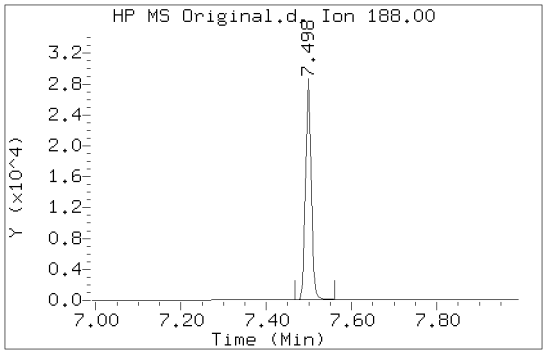


Phenanthrene-d10 (1517-22-2)

Reason Code:

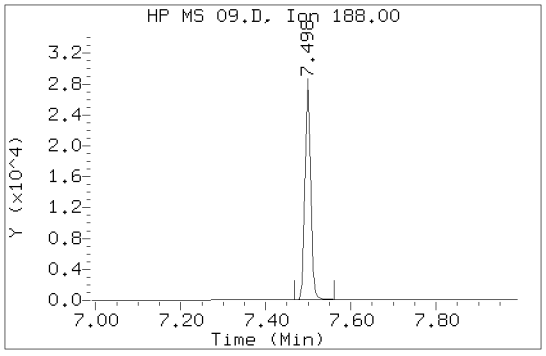
BEFORE

MASS
188
AREA
25613
HEIGHT
28649
18-Dec-2023
10:16
linh
pham



AFTER

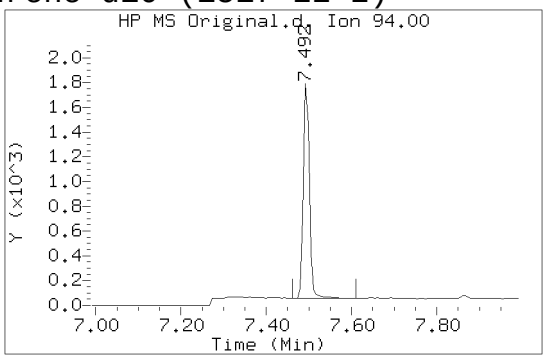
MASS
188
AREA
25613
HEIGHT
28649
18-Dec-2023
10:16
linh
pham



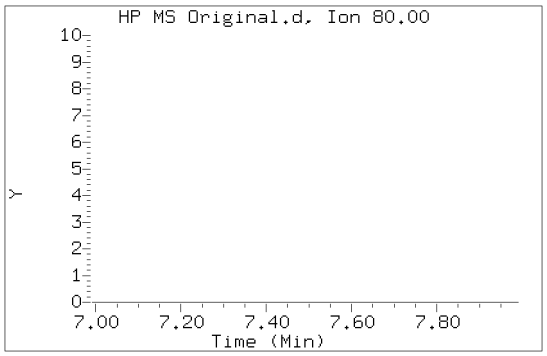
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Phenanthrene-d10 (1517-22-2)

BEFORE
MASS
94
AREA
1646
HEIGHT
1732
18-Dec-2023
10:16
linh
pham

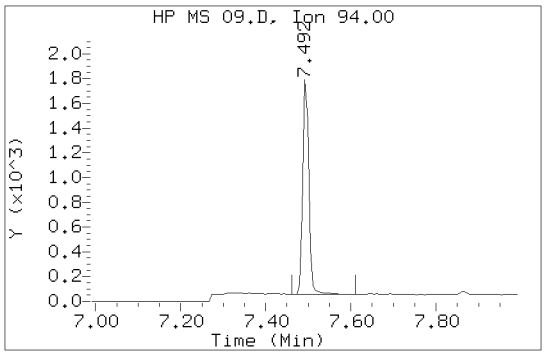


BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

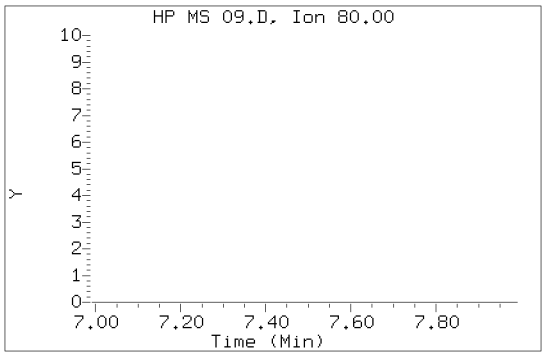


Reason Code:

AFTER
MASS
94
AREA
1646
HEIGHT
1732
18-Dec-2023
10:16
linh
pham

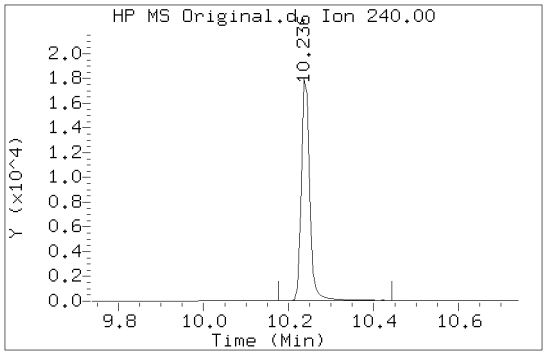


AFTER
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

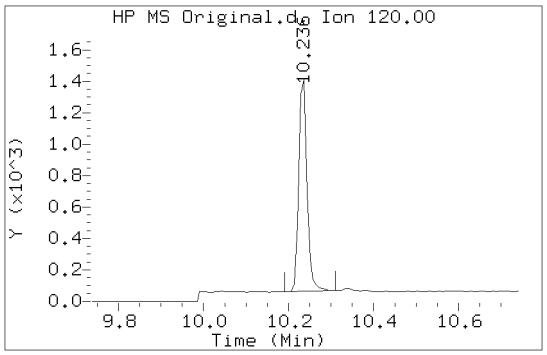


Chrysene-d12 (1719-03-5)

BEFORE
MASS
240
AREA
24600
HEIGHT
17904
18-Dec-2023
10:16
linh
pham

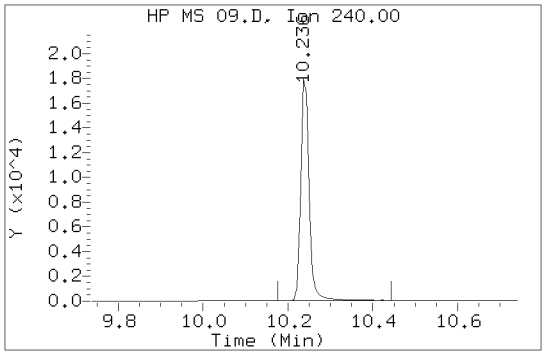


BEFORE
MASS
120
AREA
1798
HEIGHT
1344
18-Dec-2023
10:16
linh
pham

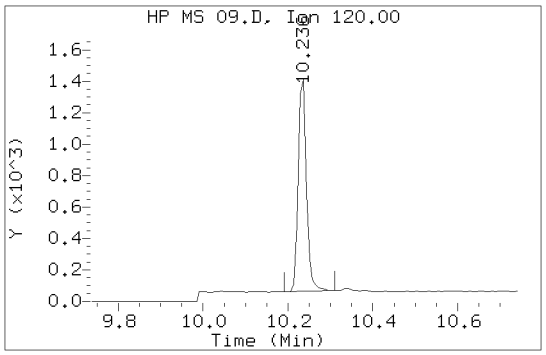


Reason Code:

AFTER
MASS
240
AREA
24600
HEIGHT
17904
18-Dec-2023
10:16
linh
pham



AFTER
MASS
120
AREA
1798
HEIGHT
1344
18-Dec-2023
10:16
linh
pham



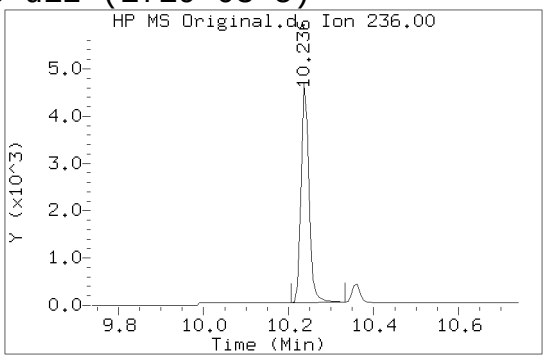
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Chrysene-d12 (1719-03-5)

Reason Code:

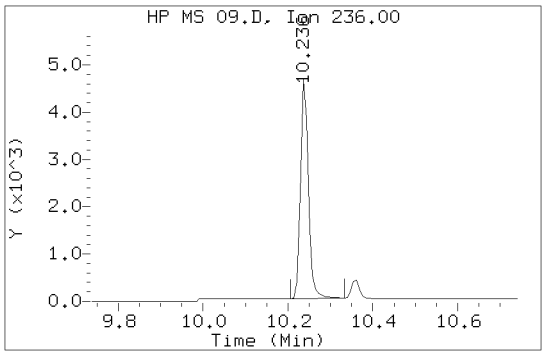
BEFORE

MASS
236
AREA
5994
HEIGHT
4630
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5994
HEIGHT
4630
18-Dec-2023
10:16
linh
pham

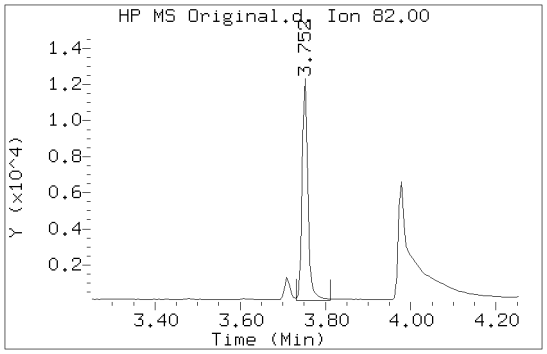


Nitrobenzene-d5 (4165-60-0)

Reason Code:

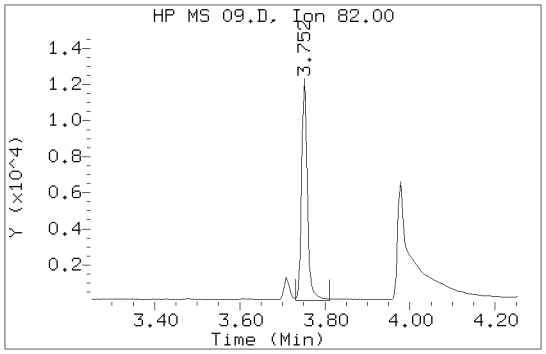
BEFORE

MASS
82
AREA
11339
HEIGHT
12271
18-Dec-2023
10:16
linh
pham



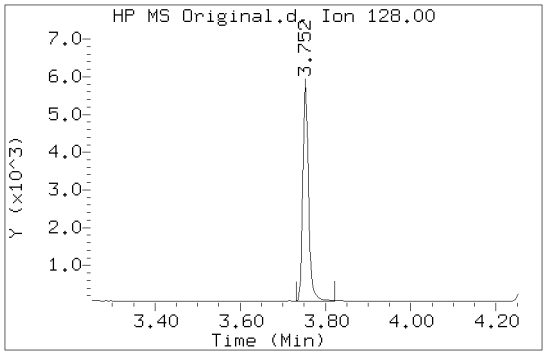
AFTER

MASS
82
AREA
11339
HEIGHT
12271
18-Dec-2023
10:16
linh
pham



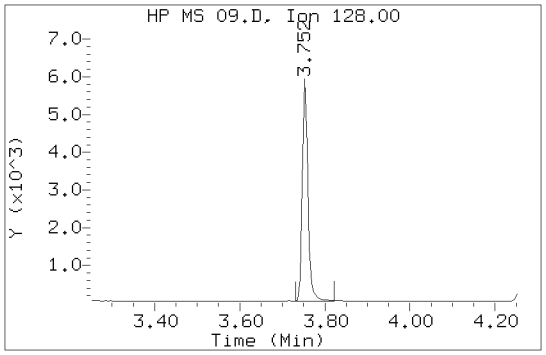
BEFORE

MASS
128
AREA
5249
HEIGHT
5890
18-Dec-2023
10:16
linh
pham



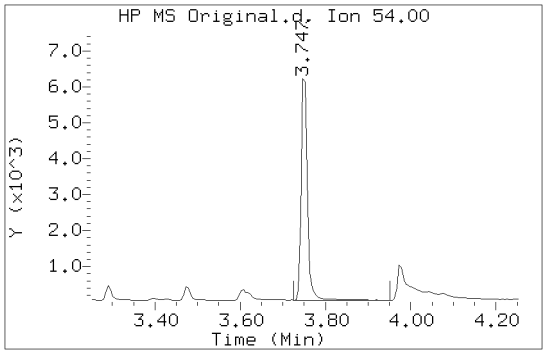
AFTER

MASS
128
AREA
5249
HEIGHT
5890
18-Dec-2023
10:16
linh
pham



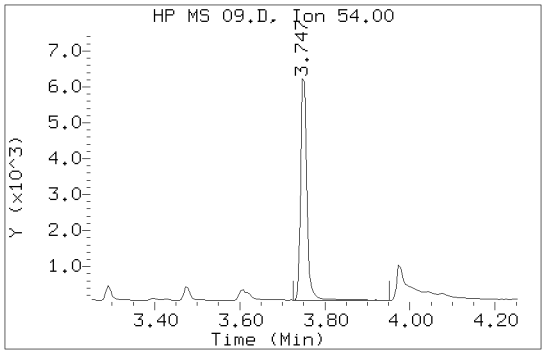
BEFORE

MASS
54
AREA
6228
HEIGHT
6166
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
6228
HEIGHT
6166
18-Dec-2023
10:16
linh
pham



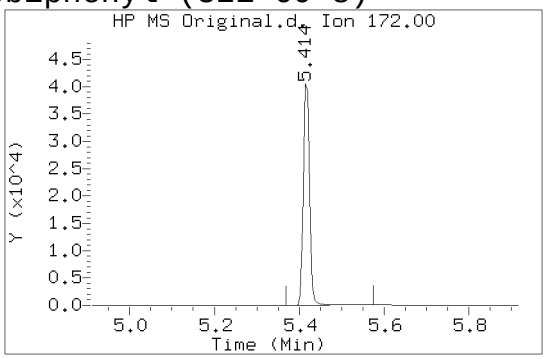
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

2-Fluorobiphenyl (321-60-8)

Reason Code:

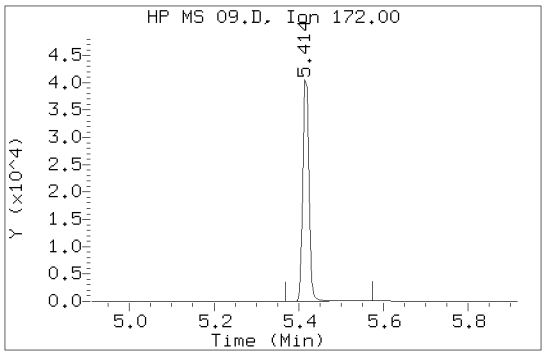
BEFORE

MASS
172
AREA
40079
HEIGHT
40484
18-Dec-2023
10:16
linh
pham



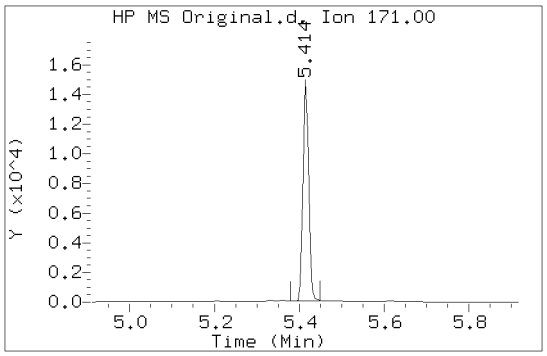
AFTER

MASS
172
AREA
40079
HEIGHT
40484
18-Dec-2023
10:16
linh
pham



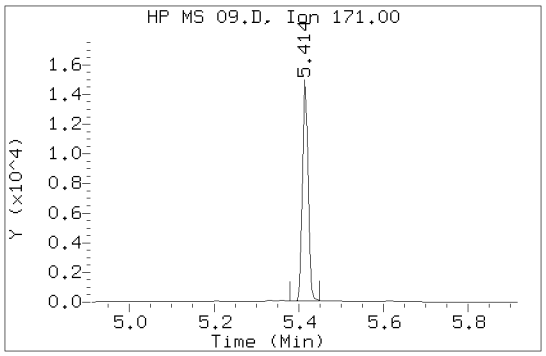
BEFORE

MASS
171
AREA
13405
HEIGHT
14904
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
13405
HEIGHT
14904
18-Dec-2023
10:16
linh
pham

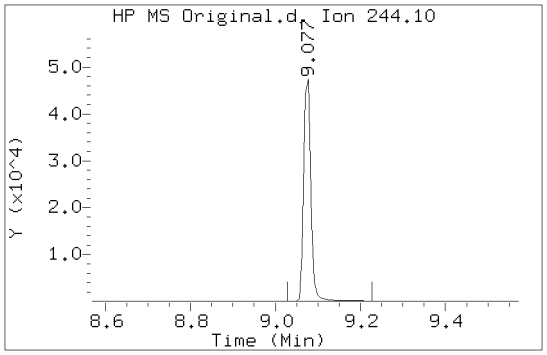


4-Terphenyl-d14 (1718-51-0)

Reason Code:

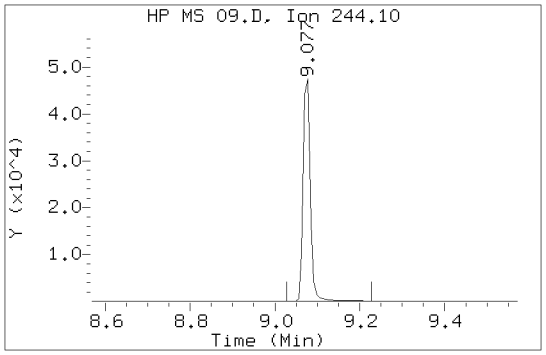
BEFORE

MASS
244.1
AREA
47723
HEIGHT
47403
18-Dec-2023
10:16
linh
pham



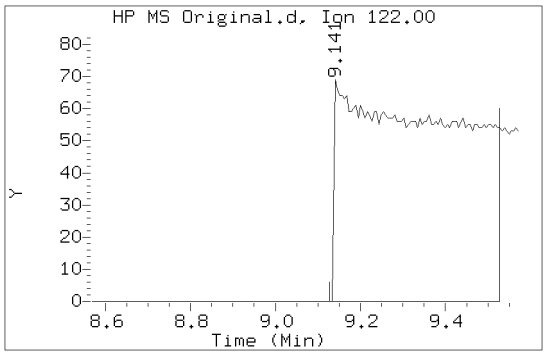
AFTER

MASS
244.1
AREA
47723
HEIGHT
47403
18-Dec-2023
10:16
linh
pham



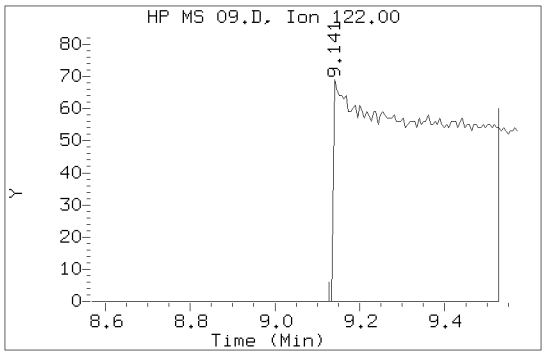
BEFORE

MASS
122
AREA
1351
HEIGHT
69
18-Dec-2023
10:16
linh
pham



AFTER

MASS
122
AREA
1351
HEIGHT
69
18-Dec-2023
10:16
linh
pham



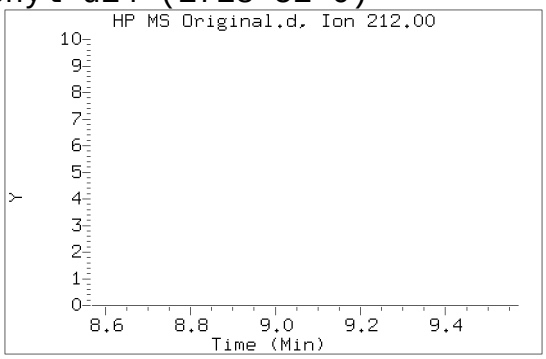
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Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

4-Terphenyl-d14 (1718-51-0)

Reason Code:

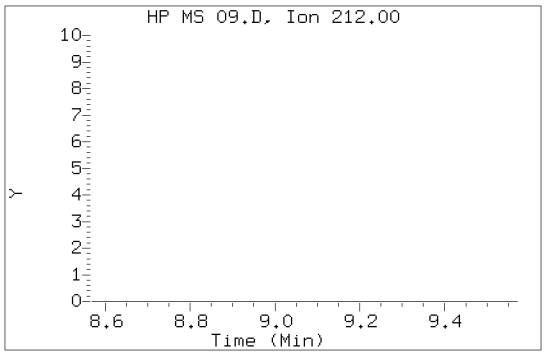
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Lab Smp Id: PAHSIM-0.50 Client Smp ID: PAHSIM-0.50
Inj Date : 12-DEC-2023 15:59
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:39 Cal File: 09.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	22630	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	31571	0.50000	0.5059(AM)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	14197	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	110011	0.50000	0.4866(AM)
* 126 Phenanthrene-d10	188	7.493	7.493	(1.000)	29477	0.10000	
* 182 Chrysene-d12	240	10.237	10.237	(1.000)	28359	0.10000	
$ 158 4-Terphenyl-d14	244	9.071	9.071	(0.886)	140743	0.50000	0.4887(AM)
* 198 Perylene-d12	264	12.220	12.220	(1.000)	30143	0.10000	
46 Naphthalene	128	4.407	4.407	(1.031)	120220	0.50000	0.4842
61 2-Methylnaphthalene	142	5.053	5.053	(1.183)	83121	0.50000	0.5006(A)
62 1-Methylnaphthalene	142	5.150	5.150	(1.205)	77104	0.50000	0.4977
83 Acenaphthylene	152	5.910	5.910	(0.976)	130746	0.50000	0.5037(A)
88 Acenaphthene	154	6.080	6.080	(1.004)	79145	0.50000	0.4835
98 Fluorene	166	6.583	6.583	(1.087)	100064	0.50000	0.4973
92 Dibenzofuran	168	6.711	6.711	(1.108)	54352	0.50000	0.5122(AM)
128 Phenanthrene	178	7.518	7.518	(1.003)	158427	0.50000	0.4910
130 Anthracene	178	7.568	7.568	(1.010)	161208	0.50000	0.5014(AM)
149 Fluoranthene	202	8.676	8.676	(1.158)	192859	0.50000	0.5026(AM)
155 Pyrene	202	8.895	8.895	(0.869)	202802	0.50000	0.4919(M)

181 Benzo(a)Anthracene	228	10.222	10.222 (0.999)	192587	0.50000	0.5008(A)
183 Chrysene	228	10.267	10.267 (1.003)	210602	0.50000	0.4913(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.670	11.670	(0.955)	184151	0.50000	0.4922
195 Benzo(k)fluoranthene	252	11.714	11.714	(0.959)	228007	0.50000	0.5036(AM)
197 Benzo(a)pyrene	252	12.132	12.132	(0.993)	182895	0.50000	0.5043(AM)
209 Indeno(1,2,3-cd)pyrene	276	13.739	13.739	(1.124)	217277	0.50000	0.5007(AM)
210 Dibenzo(a,h)anthracene	278	13.791	13.791	(1.129)	180668	0.50000	0.5012(AM)
212 Benzo(g,h,i)perylene	276	14.094	14.094	(1.153)	183621	0.50000	0.4738(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D

Date : 12-DEC-2023 15:59

Client ID: PAHSIM-0.50

Instrument: SV6.i

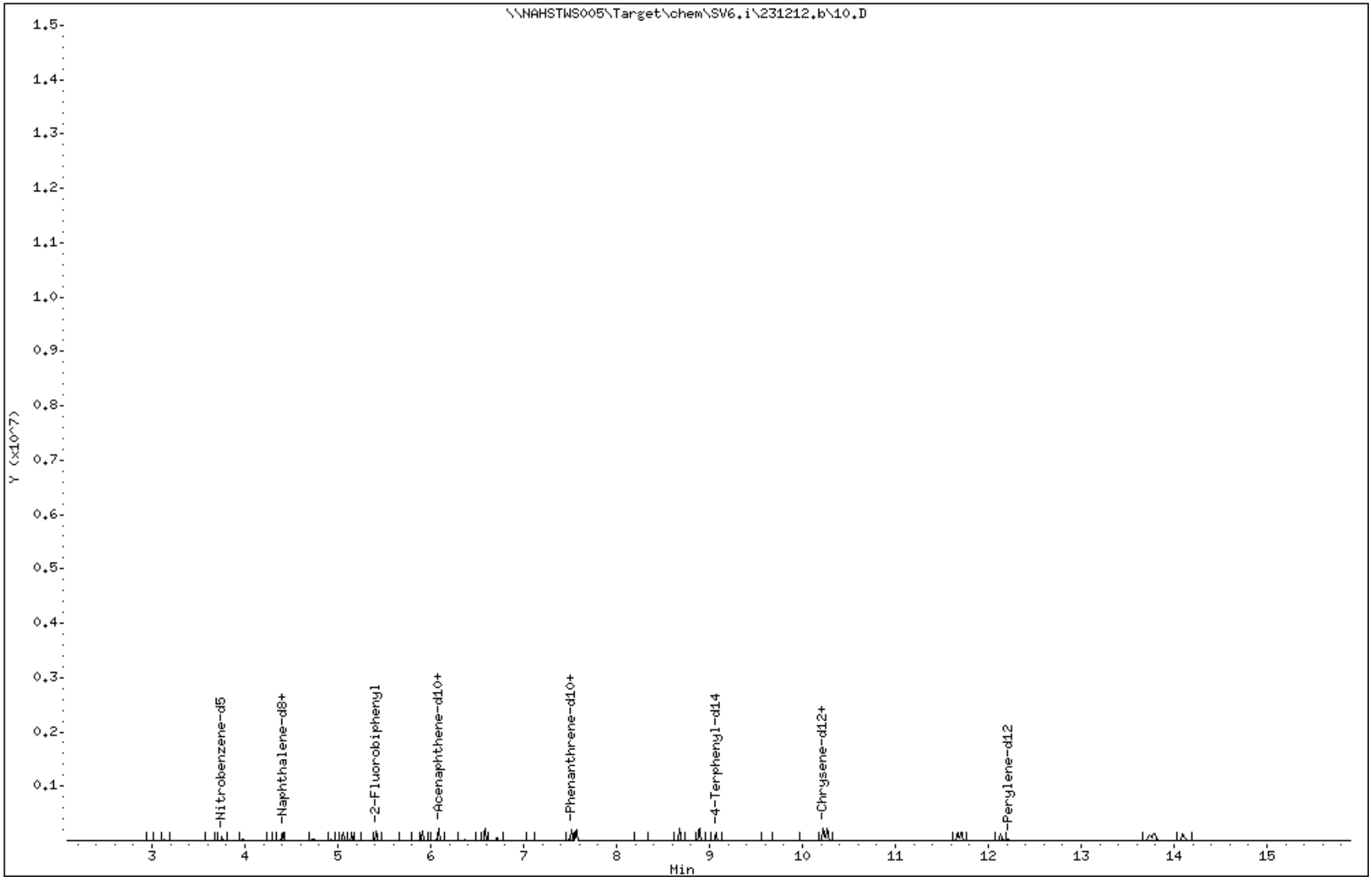
Sample Info: PAHSIM-0.50

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



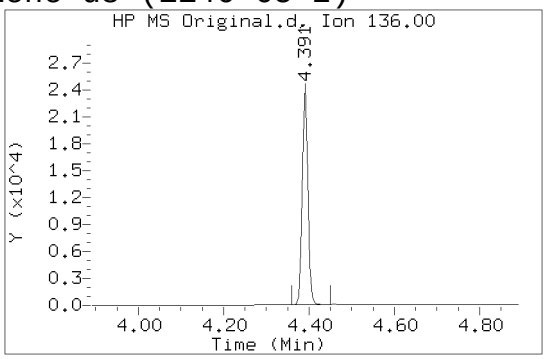
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Naphthalene-d8 (1146-65-2)

Reason Code:

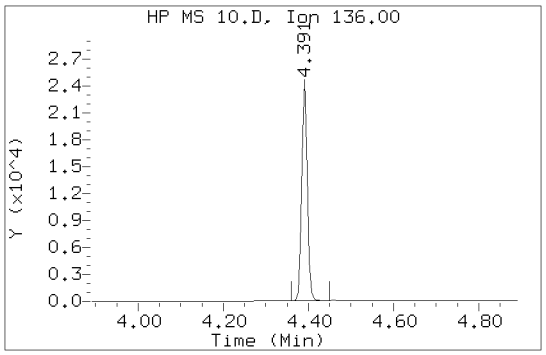
BEFORE

MASS
136
AREA
22630
HEIGHT
24658
18-Dec-2023
10:16
linh
pham



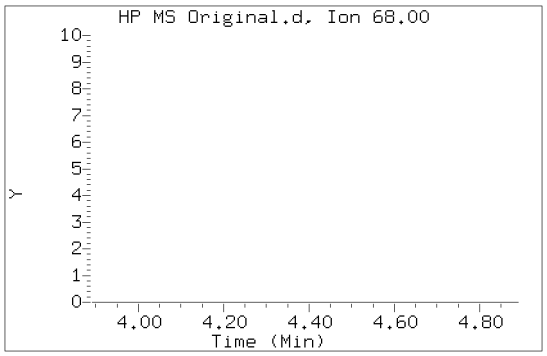
AFTER

MASS
136
AREA
22630
HEIGHT
24658
18-Dec-2023
10:16
linh
pham



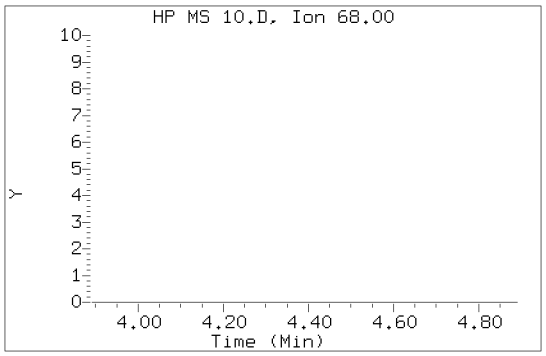
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

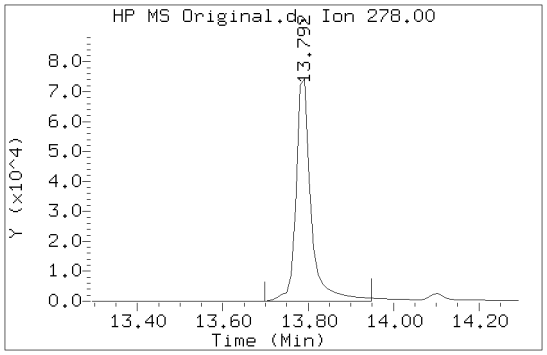


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

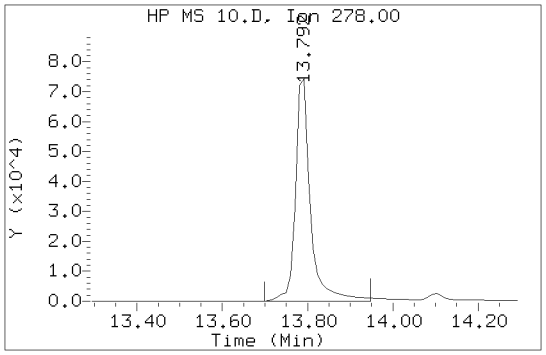
BEFORE

MASS
278
AREA
180668
HEIGHT
74252
18-Dec-2023
10:16
linh
pham



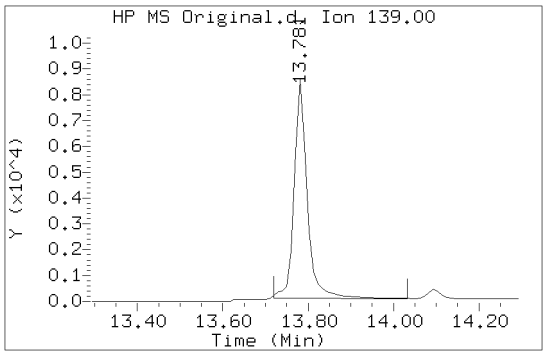
AFTER

MASS
278
AREA
180668
HEIGHT
74252
18-Dec-2023
10:16
linh
pham



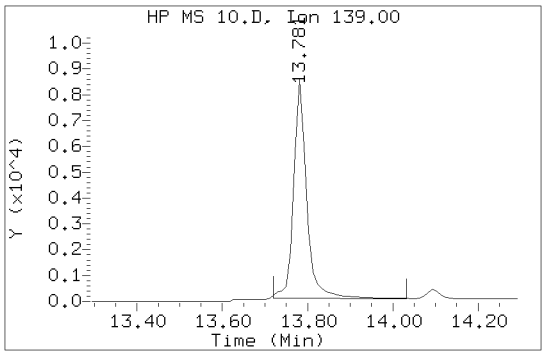
BEFORE

MASS
139
AREA
18114
HEIGHT
8475
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
18114
HEIGHT
8475
18-Dec-2023
10:16
linh
pham



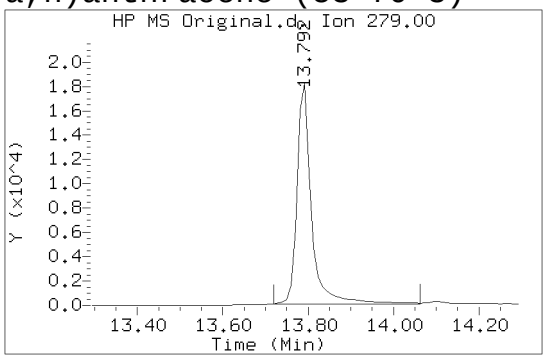
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

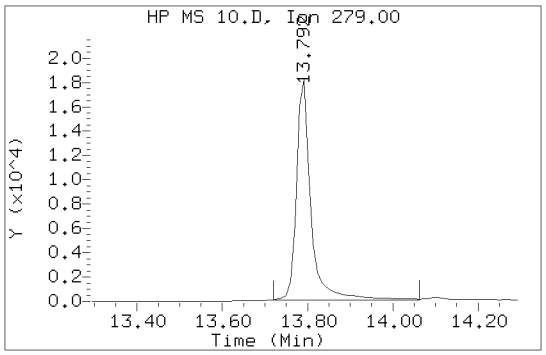
BEFORE

MASS
279
AREA
42443
HEIGHT
18124
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
42443
HEIGHT
18124
18-Dec-2023
10:16
linh
pham

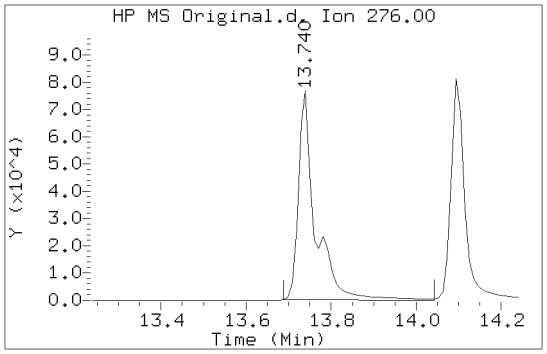


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

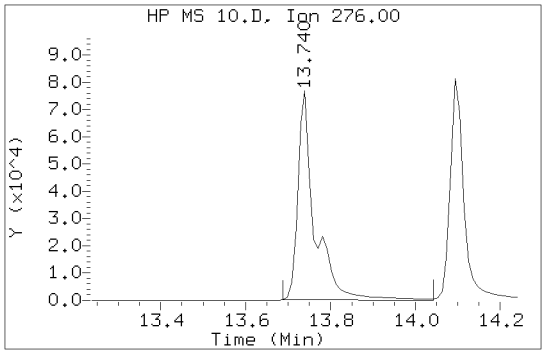
BEFORE

MASS
276
AREA
217277
HEIGHT
76840
18-Dec-2023
10:16
linh
pham



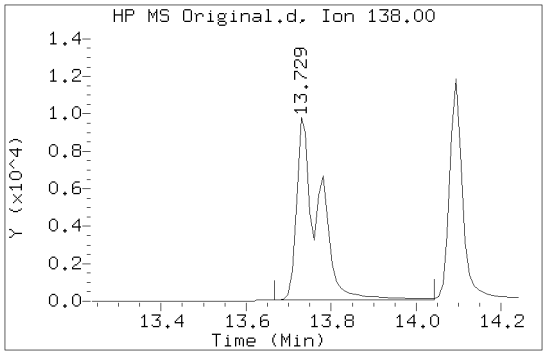
AFTER

MASS
276
AREA
217277
HEIGHT
76840
18-Dec-2023
10:16
linh
pham



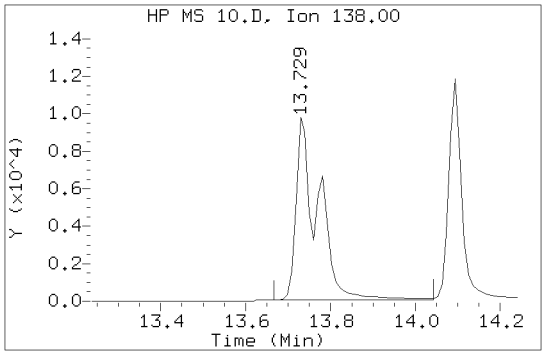
BEFORE

MASS
138
AREA
35678
HEIGHT
9739
18-Dec-2023
10:16
linh
pham



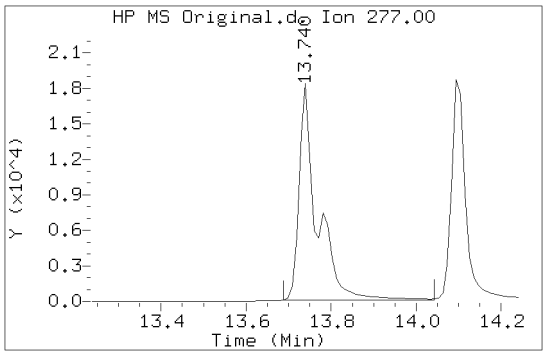
AFTER

MASS
138
AREA
35678
HEIGHT
9739
18-Dec-2023
10:16
linh
pham



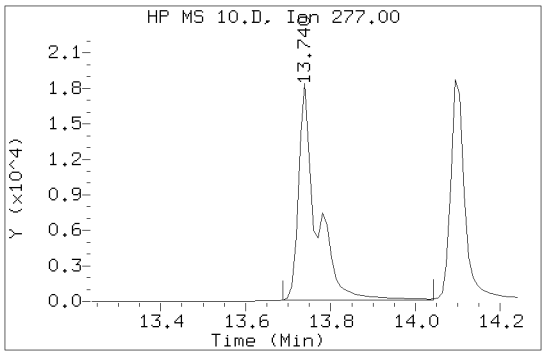
BEFORE

MASS
277
AREA
55424
HEIGHT
18321
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
55424
HEIGHT
18321
18-Dec-2023
10:16
linh
pham



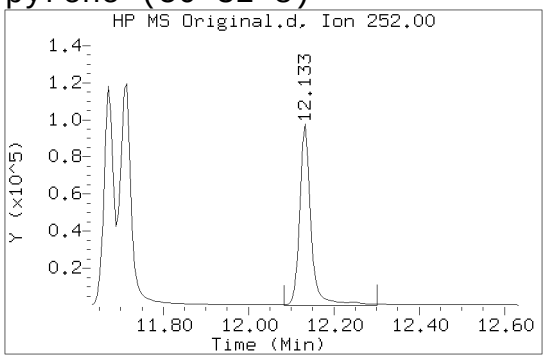
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(a)pyrene (50-32-8)

Reason Code:

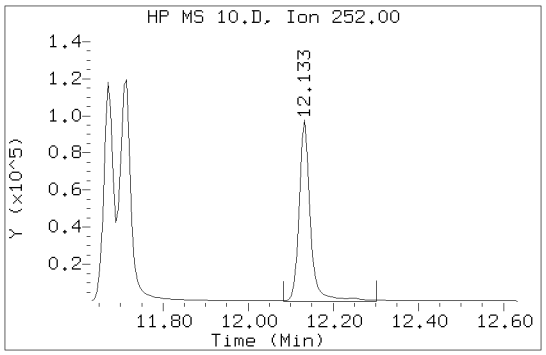
BEFORE

MASS
252
AREA
182895
HEIGHT
97759
18-Dec-2023
10:16
linh
pham



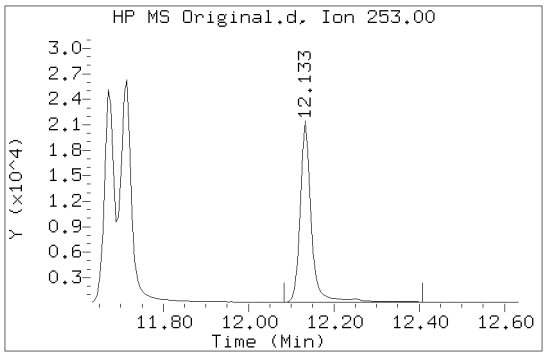
AFTER

MASS
252
AREA
182895
HEIGHT
97759
18-Dec-2023
10:16
linh
pham



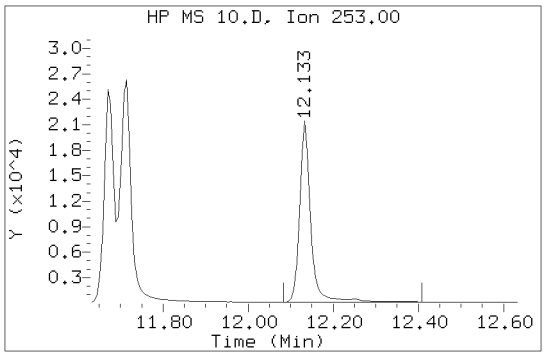
BEFORE

MASS
253
AREA
38846
HEIGHT
21301
18-Dec-2023
10:16
linh
pham



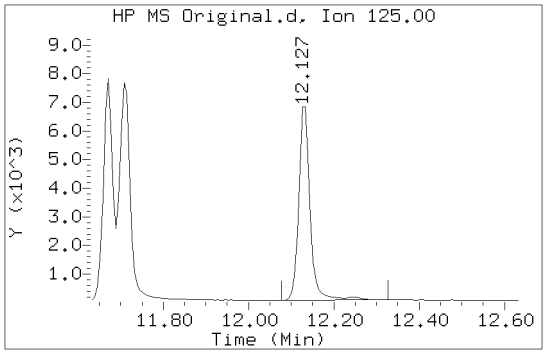
AFTER

MASS
253
AREA
38846
HEIGHT
21301
18-Dec-2023
10:16
linh
pham



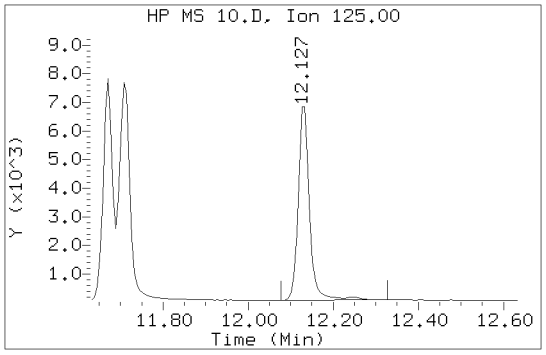
BEFORE

MASS
125
AREA
12592
HEIGHT
6754
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
12592
HEIGHT
6754
18-Dec-2023
10:16
linh
pham

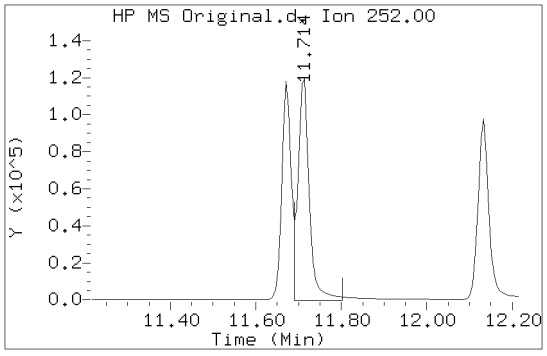


Benzo(k)fluoranthene (207-08-9)

Reason Code:

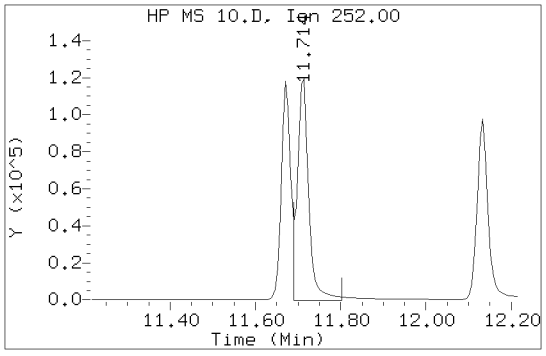
BEFORE

MASS
252
AREA
228007
HEIGHT
119657
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
228007
HEIGHT
119657
18-Dec-2023
10:16
linh
pham

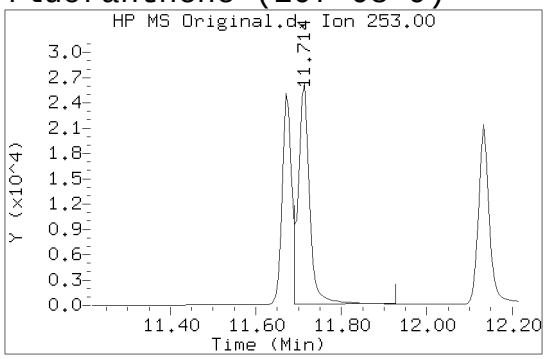


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

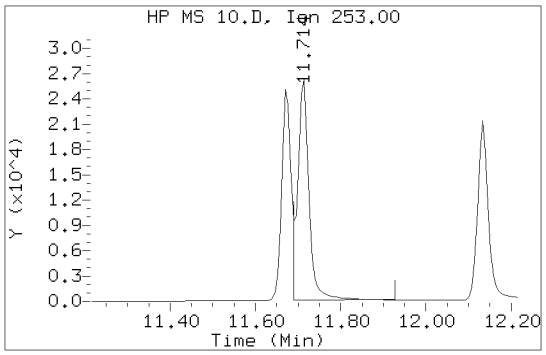
Benzo(k)fluoranthene (207-08-9)

Reason Code:

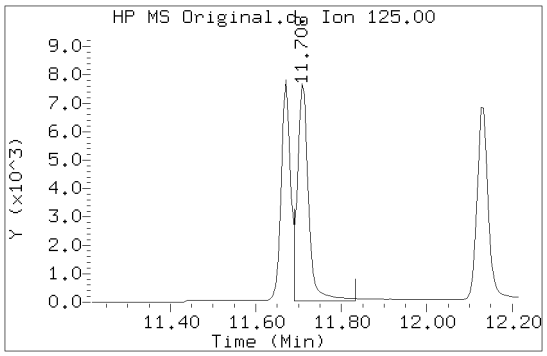
BEFORE
MASS
253
AREA
49284
HEIGHT
26133
18-Dec-2023
10:16
linh
pham



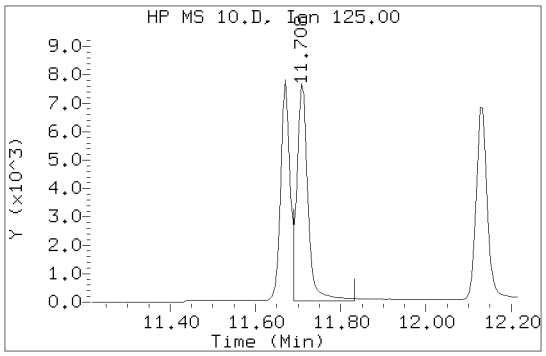
AFTER
MASS
253
AREA
49284
HEIGHT
26133
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
14142
HEIGHT
7646
18-Dec-2023
10:16
linh
pham



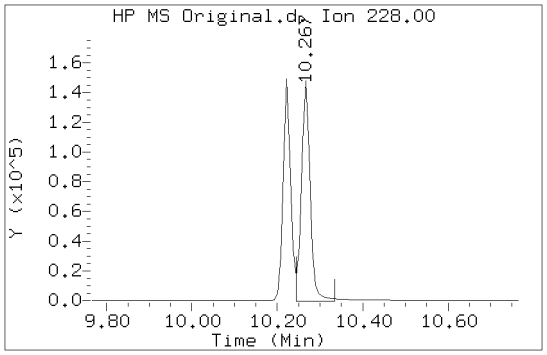
AFTER
MASS
125
AREA
14142
HEIGHT
7646
18-Dec-2023
10:16
linh
pham



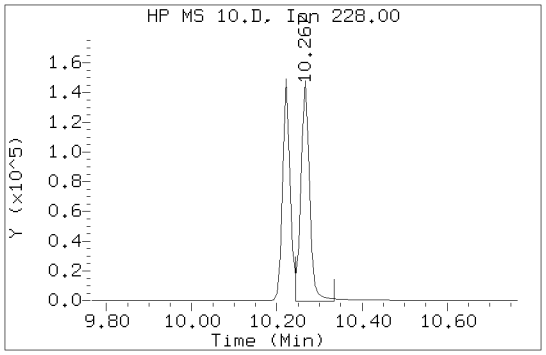
Chrysene (218-01-9)

Reason Code:

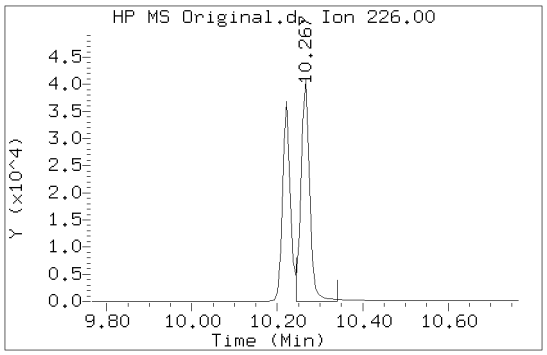
BEFORE
MASS
228
AREA
210602
HEIGHT
148295
18-Dec-2023
10:16
linh
pham



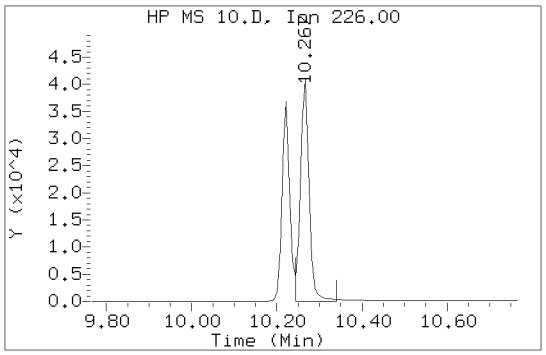
AFTER
MASS
228
AREA
210602
HEIGHT
148295
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
226
AREA
57456
HEIGHT
40793
18-Dec-2023
10:16
linh
pham



AFTER
MASS
226
AREA
57456
HEIGHT
40793
18-Dec-2023
10:16
linh
pham



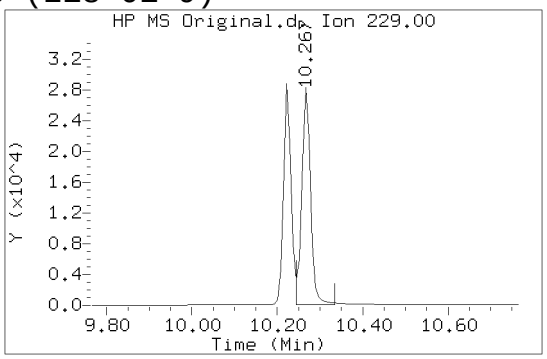
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Chrysene (218-01-9)

Reason Code:

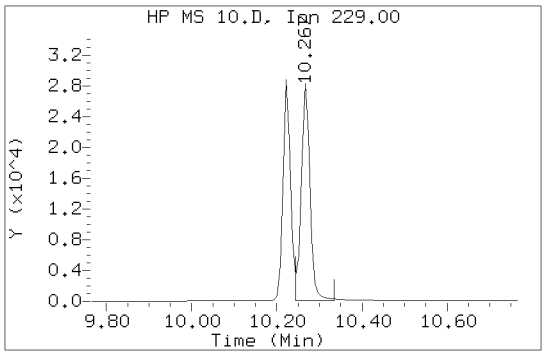
BEFORE

MASS
229
AREA
40267
HEIGHT
28218
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
40267
HEIGHT
28218
18-Dec-2023
10:16
linh
pham

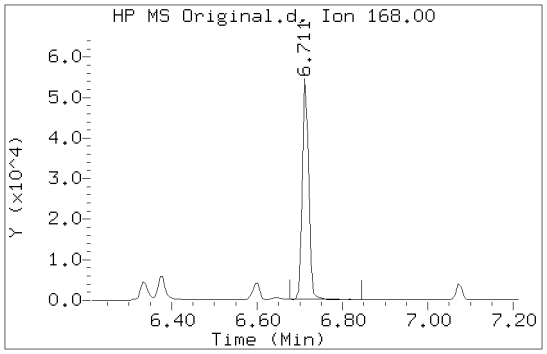


Dibenzofuran (132-64-9)

Reason Code:

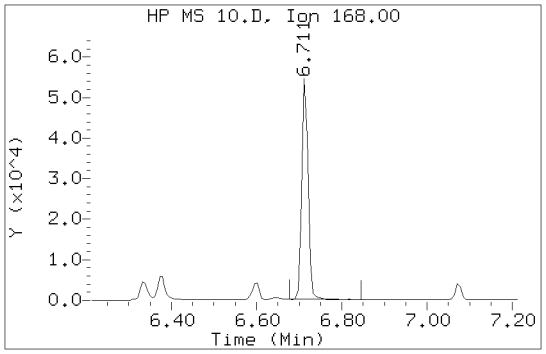
BEFORE

MASS
168
AREA
54352
HEIGHT
54390
18-Dec-2023
10:16
linh
pham



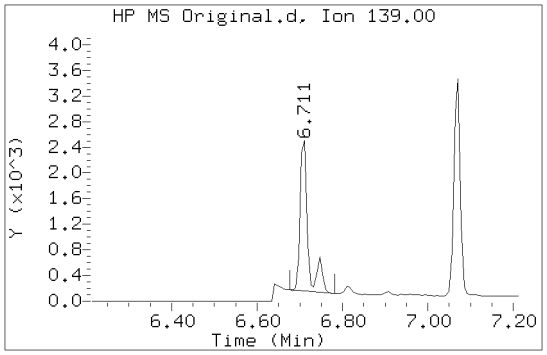
AFTER

MASS
168
AREA
54352
HEIGHT
54390
18-Dec-2023
10:16
linh
pham



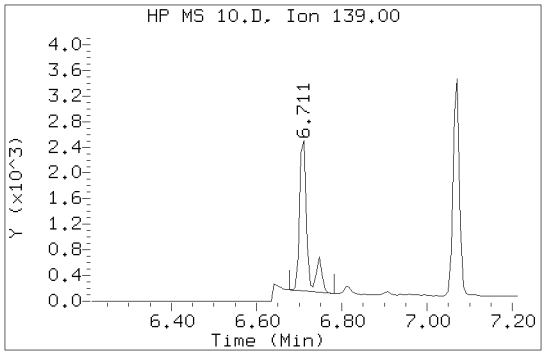
BEFORE

MASS
139
AREA
2985
HEIGHT
2340
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
2985
HEIGHT
2340
18-Dec-2023
10:16
linh
pham

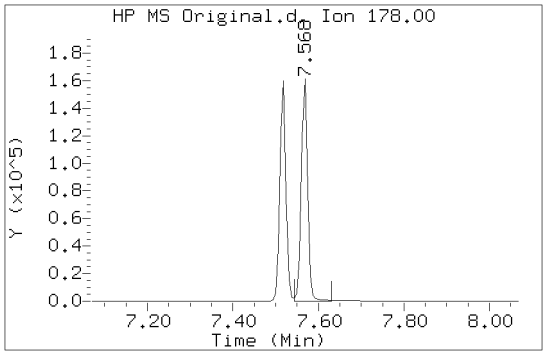


Anthracene (120-12-7)

Reason Code:

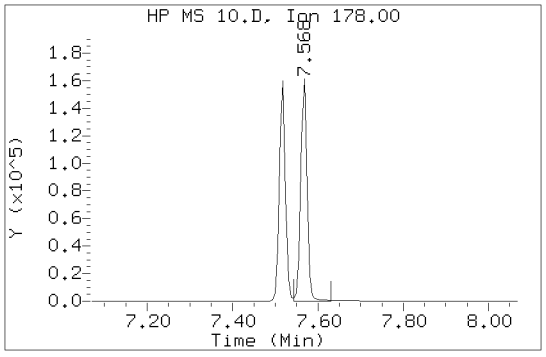
BEFORE

MASS
178
AREA
161208
HEIGHT
161236
18-Dec-2023
10:16
linh
pham



AFTER

MASS
178
AREA
161208
HEIGHT
161236
18-Dec-2023
10:16
linh
pham



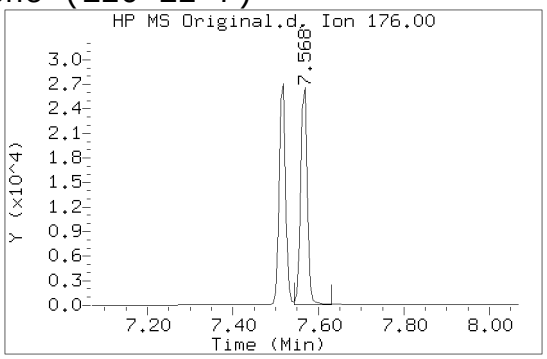
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Anthracene (120-12-7)

Reason Code:

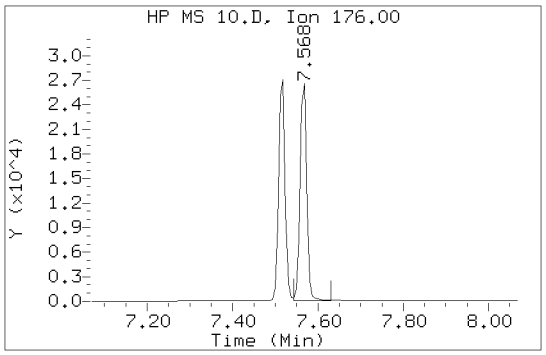
BEFORE

MASS
176
AREA
27911
HEIGHT
26558
18-Dec-2023
10:16
linh
pham



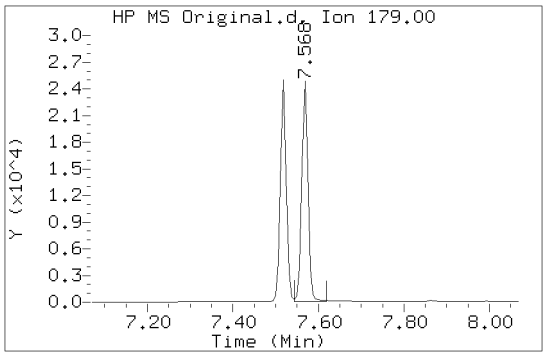
AFTER

MASS
176
AREA
27911
HEIGHT
26558
18-Dec-2023
10:16
linh
pham



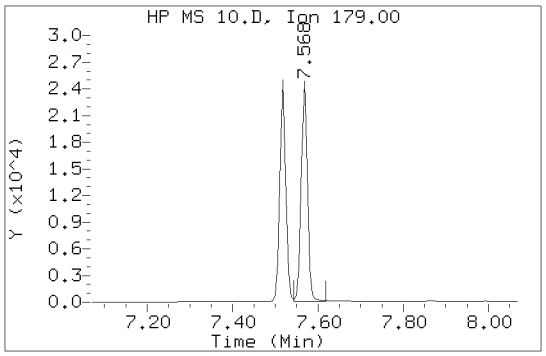
BEFORE

MASS
179
AREA
24507
HEIGHT
24781
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
24507
HEIGHT
24781
18-Dec-2023
10:16
linh
pham

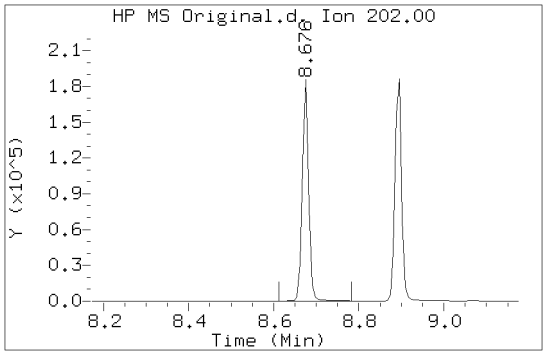


Fluoranthene (206-44-0)

Reason Code:

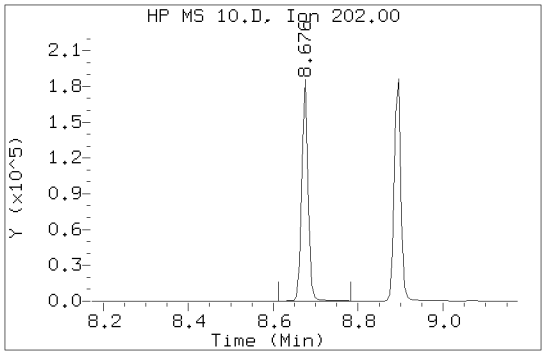
BEFORE

MASS
202
AREA
192859
HEIGHT
185917
18-Dec-2023
10:16
linh
pham



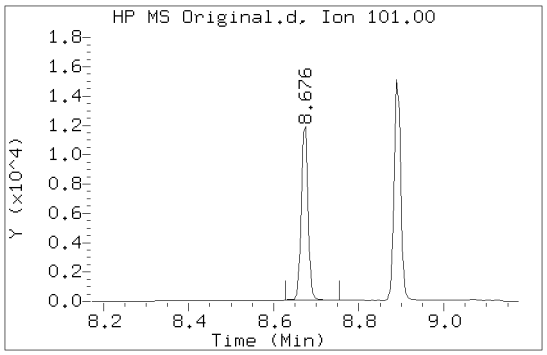
AFTER

MASS
202
AREA
192859
HEIGHT
185917
18-Dec-2023
10:16
linh
pham



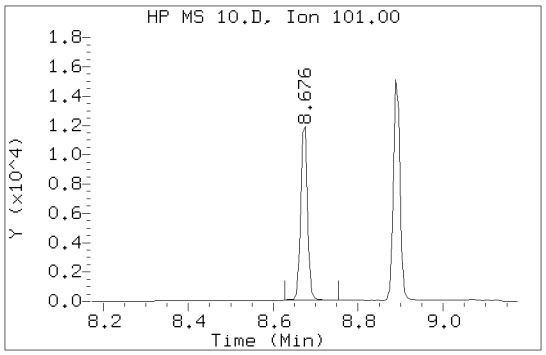
BEFORE

MASS
101
AREA
13501
HEIGHT
11853
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
13501
HEIGHT
11853
18-Dec-2023
10:16
linh
pham



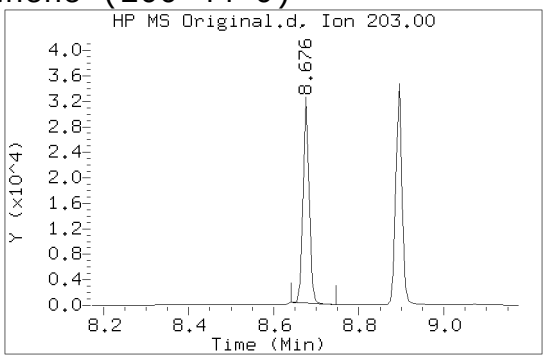
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Fluoranthene (206-44-0)

Reason Code:

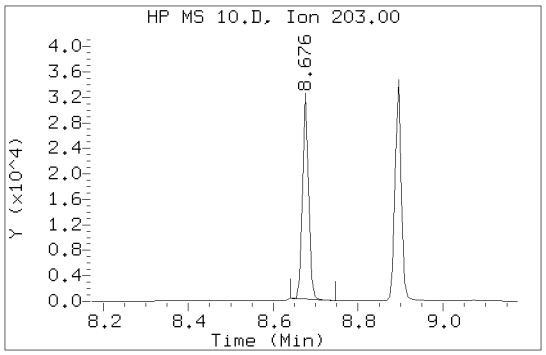
BEFORE

MASS
203
AREA
31574
HEIGHT
32325
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
31574
HEIGHT
32325
18-Dec-2023
10:16
linh
pham

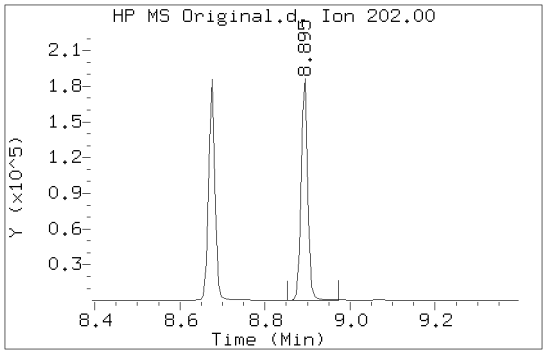


Pyrene (129-00-0)

Reason Code:

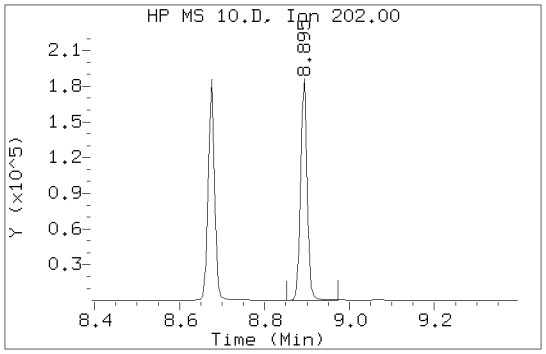
BEFORE

MASS
202
AREA
202802
HEIGHT
186212
18-Dec-2023
10:16
linh
pham



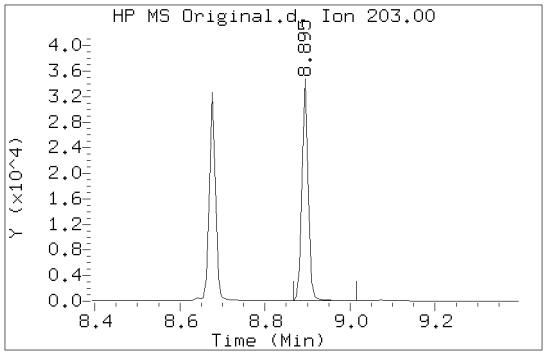
AFTER

MASS
202
AREA
202802
HEIGHT
186212
18-Dec-2023
10:16
linh
pham



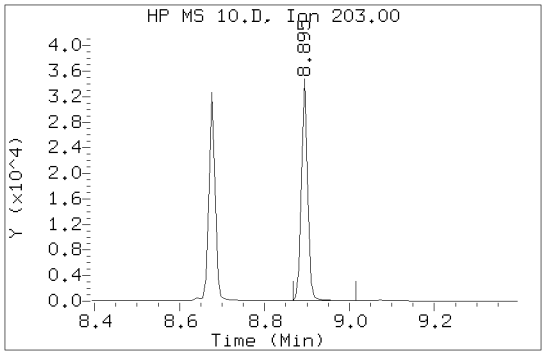
BEFORE

MASS
203
AREA
35356
HEIGHT
34661
18-Dec-2023
10:16
linh
pham



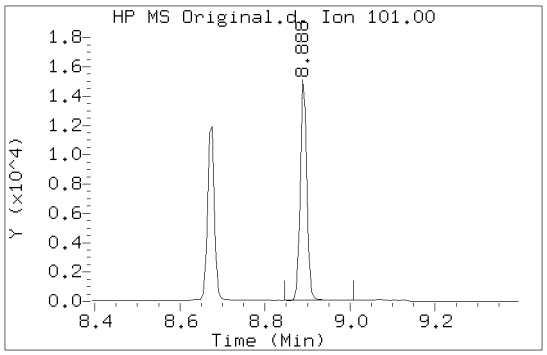
AFTER

MASS
203
AREA
35356
HEIGHT
34661
18-Dec-2023
10:16
linh
pham



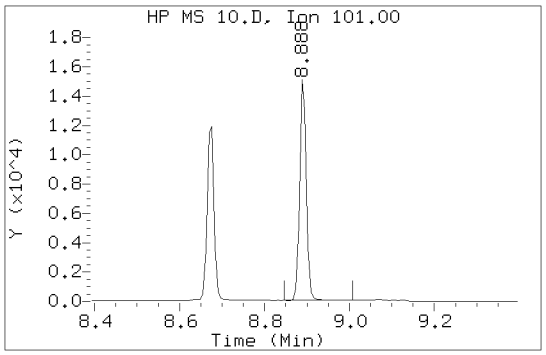
BEFORE

MASS
101
AREA
16385
HEIGHT
15050
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
16385
HEIGHT
15050
18-Dec-2023
10:16
linh
pham

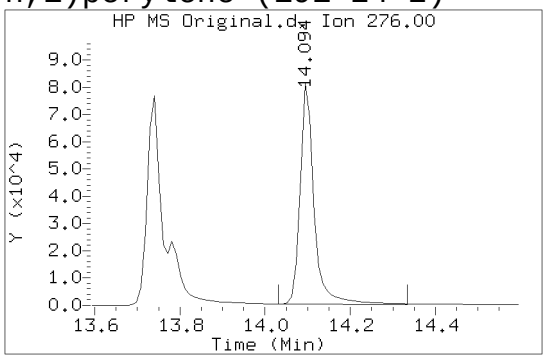


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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

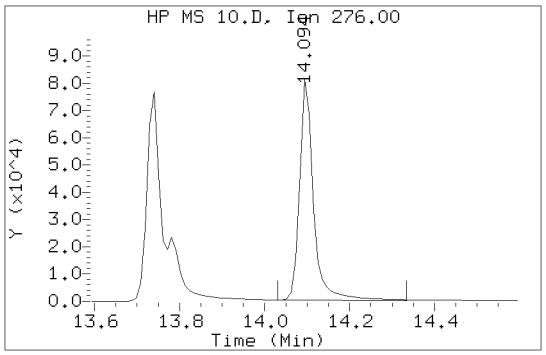
Benzo(g,h,i)perylene (191-24-2)

Reason Code:

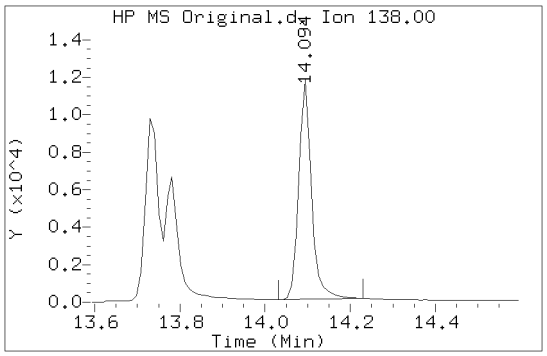
BEFORE
MASS
276
AREA
183621
HEIGHT
80859
18-Dec-2023
10:16
linh
pham



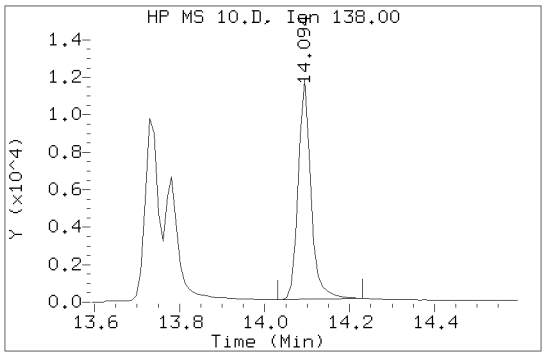
AFTER
MASS
276
AREA
183621
HEIGHT
80859
18-Dec-2023
10:16
linh
pham



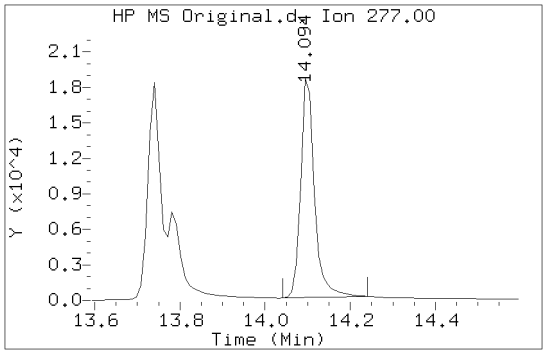
BEFORE
MASS
138
AREA
24272
HEIGHT
11714
18-Dec-2023
10:16
linh
pham



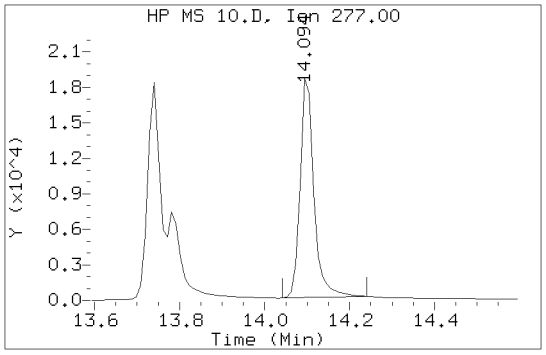
AFTER
MASS
138
AREA
24272
HEIGHT
11714
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
277
AREA
41408
HEIGHT
18507
18-Dec-2023
10:16
linh
pham



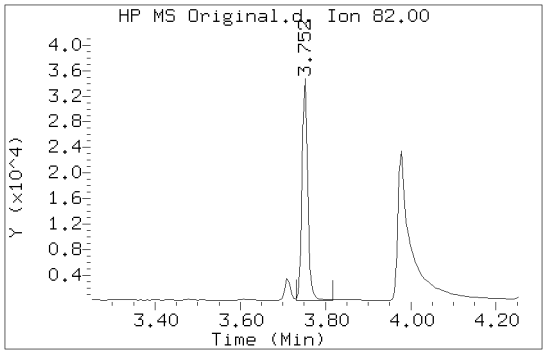
AFTER
MASS
277
AREA
41408
HEIGHT
18507
18-Dec-2023
10:16
linh
pham



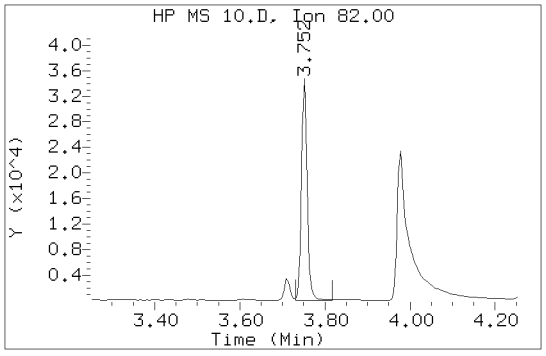
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
31571
HEIGHT
34695
18-Dec-2023
10:16
linh
pham



AFTER
MASS
82
AREA
31571
HEIGHT
34695
18-Dec-2023
10:16
linh
pham

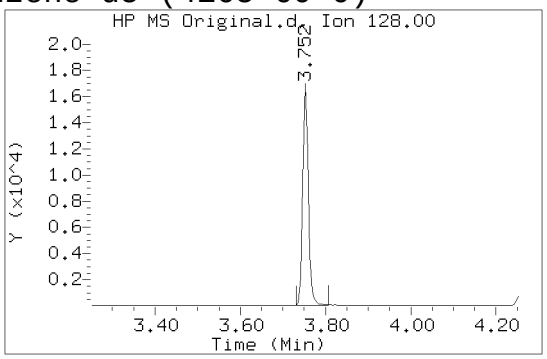


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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Nitrobenzene-d5 (4165-60-0)

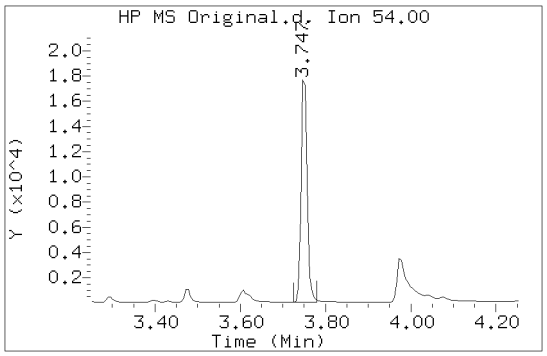
BEFORE

MASS
128
AREA
14964
HEIGHT
16937
18-Dec-2023
10:16
linh
pham



BEFORE

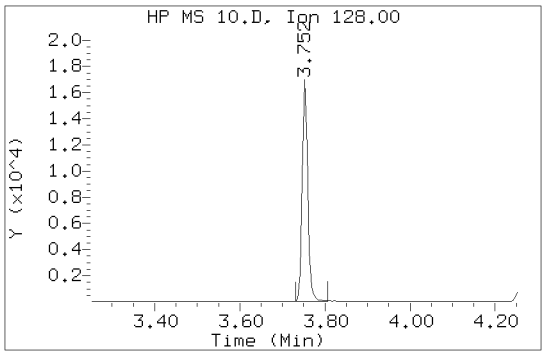
MASS
54
AREA
17244
HEIGHT
17626
18-Dec-2023
10:16
linh
pham



Reason Code:

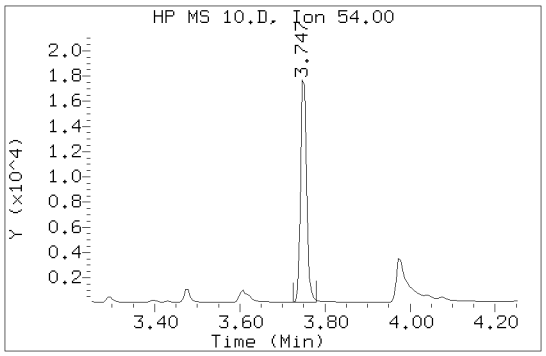
AFTER

MASS
128
AREA
14964
HEIGHT
16937
18-Dec-2023
10:16
linh
pham



AFTER

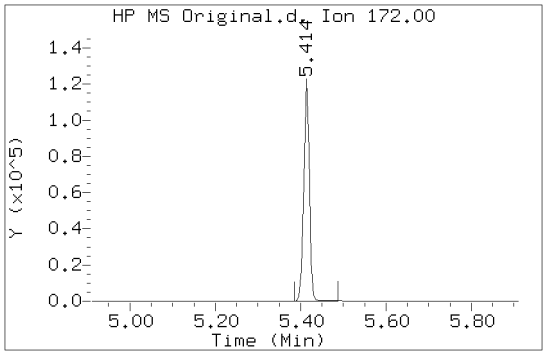
MASS
54
AREA
17244
HEIGHT
17626
18-Dec-2023
10:16
linh
pham



2-Fluorobiphenyl (321-60-8)

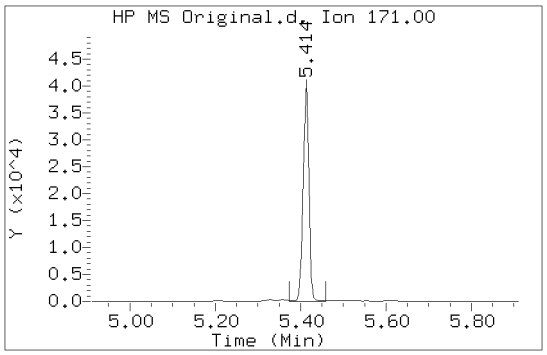
BEFORE

MASS
172
AREA
110011
HEIGHT
122858
18-Dec-2023
10:16
linh
pham



BEFORE

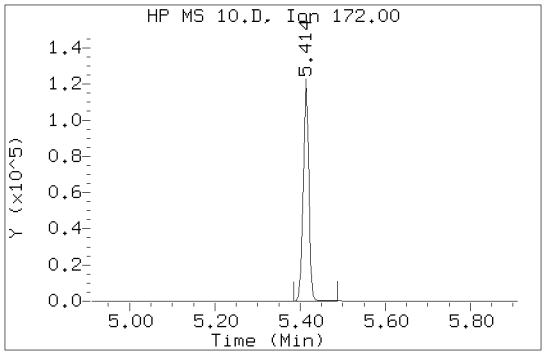
MASS
171
AREA
37375
HEIGHT
41160
18-Dec-2023
10:16
linh
pham



Reason Code:

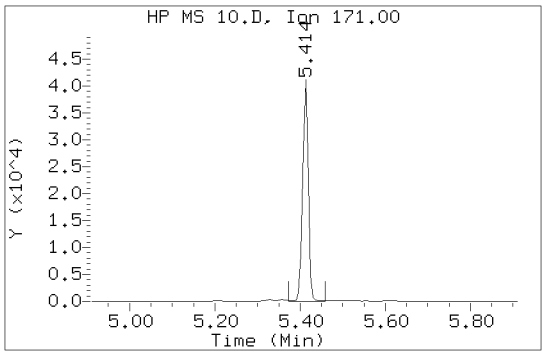
AFTER

MASS
172
AREA
110011
HEIGHT
122858
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
37375
HEIGHT
41160
18-Dec-2023
10:16
linh
pham



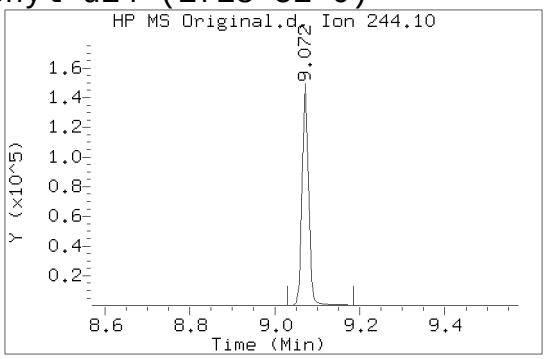
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Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

4-Terphenyl-d14 (1718-51-0)

Reason Code:

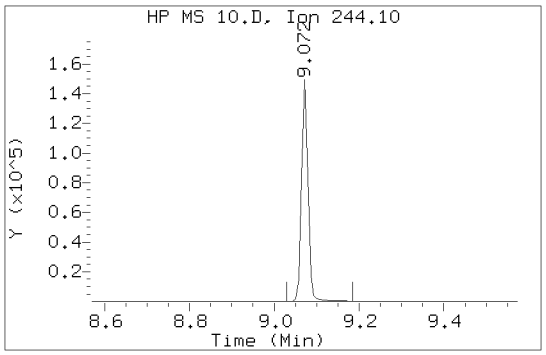
BEFORE

MASS
244.1
AREA
140743
HEIGHT
149344
18-Dec-2023
10:16
linh
pham



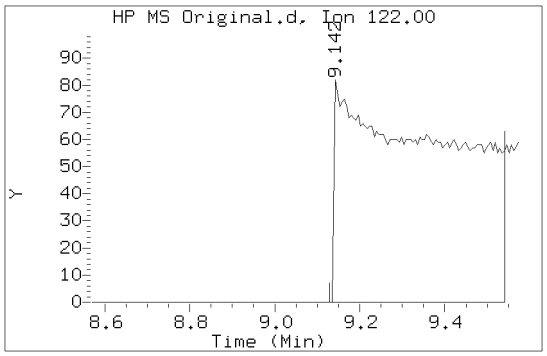
AFTER

MASS
244.1
AREA
140743
HEIGHT
149344
18-Dec-2023
10:16
linh
pham



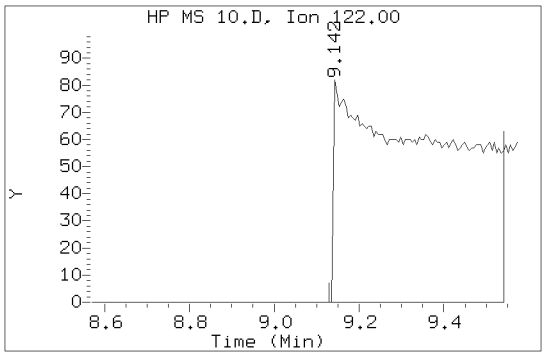
BEFORE

MASS
122
AREA
1493
HEIGHT
82
18-Dec-2023
10:16
linh
pham



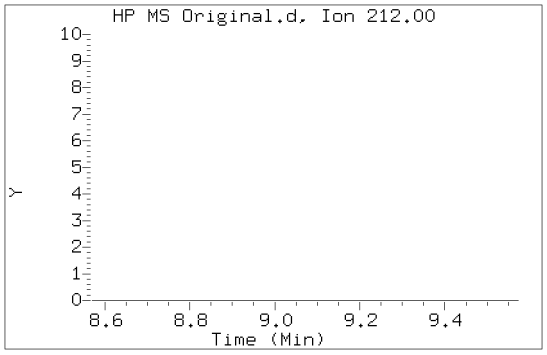
AFTER

MASS
122
AREA
1493
HEIGHT
82
18-Dec-2023
10:16
linh
pham



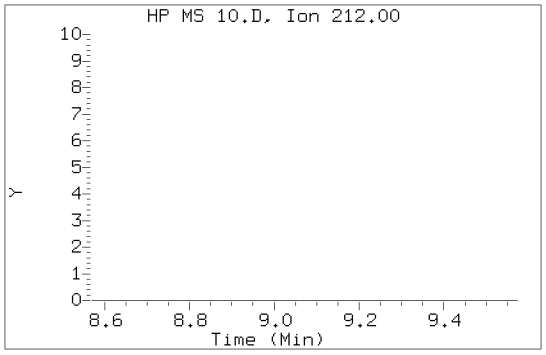
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Lab Smp Id: PAHSIM ICV-0.08 Client Smp ID: PAHSIM ICV-0.08
Inj Date : 12-DEC-2023 16:19
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:59 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	25175	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	5427	0.07818	0.07818(M)
* 86 Acenaphthene-d10	164	6.056	6.058	(1.000)	15648	0.10000	
$ 69 2-Fluorobiphenyl	172	5.419	5.413	(0.895)	19304	0.07747	0.07747
* 126 Phenanthrene-d10	188	7.498	7.493	(1.000)	32385	0.10000	
* 182 Chrysene-d12	240	10.243	10.237	(1.000)	29147	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.071	(0.908)	21376	0.07222	0.07222
* 198 Perylene-d12	264	12.218	12.220	(1.000)	29848	0.10000	
46 Naphthalene	128	4.407	4.407	(1.031)	22249	0.08055	0.08055
61 2-Methylnaphthalene	142	5.059	5.053	(1.184)	14713	0.07965	0.07965
62 1-Methylnaphthalene	142	5.150	5.150	(1.205)	13635	0.07911	0.07911
83 Acenaphthylene	152	5.915	5.910	(0.977)	22110	0.07727	0.07727
88 Acenaphthene	154	6.086	6.080	(1.005)	14152	0.07845	0.07844
98 Fluorene	166	6.588	6.583	(1.088)	17084	0.07703	0.07703
92 Dibenzofuran	168	6.716	6.711	(1.109)	9112	0.07791	0.07790
128 Phenanthrene	178	7.523	7.518	(1.003)	27676	0.07808	0.07808
130 Anthracene	178	7.572	7.568	(1.010)	27519	0.07791	0.07791(M)
149 Fluoranthene	202	8.674	8.676	(1.157)	32128	0.07620	0.07620
155 Pyrene	202	8.893	8.895	(0.890)	34127	0.08053	0.08053

181 Benzo(a)Anthracene	228	10.228	10.222 (0.999)	31817	0.08050	0.08050(M)
183 Chrysene	228	10.272	10.267 (1.003)	36118	0.08199	0.08199(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
192 Benzo(b)fluoranthene	252	11.675	11.670	(0.956)	29596	0.07988	0.07988
195 Benzo(k)fluoranthene	252	11.712	11.714	(0.959)	34804	0.07763	0.07763
197 Benzo(a)pyrene	252	12.137	12.132	(0.993)	27244	0.07587	0.07587(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.739	(1.124)	30452	0.07086	0.07086
210 Dibenzo(a,h)anthracene	278	13.790	13.791	(1.129)	25333	0.07098	0.07098(M)
212 Benzo(g,h,i)perylene	276	14.102	14.094	(1.154)	27319	0.07118	0.07118(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D

Date : 12-DEC-2023 16:19

Client ID: PAHSIM ICV-0.08

Instrument: SV6.i

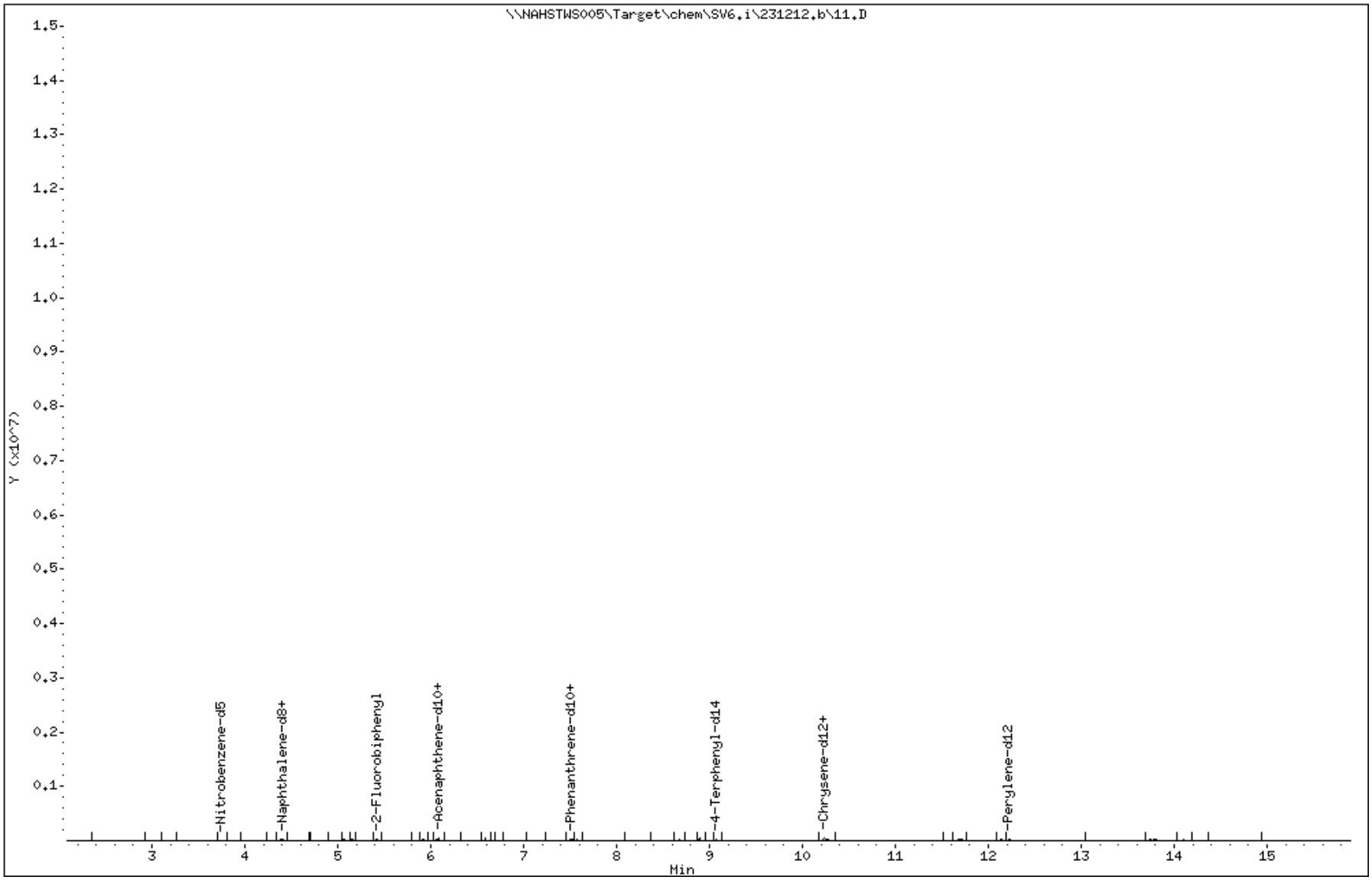
Sample Info: PAHSIM ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



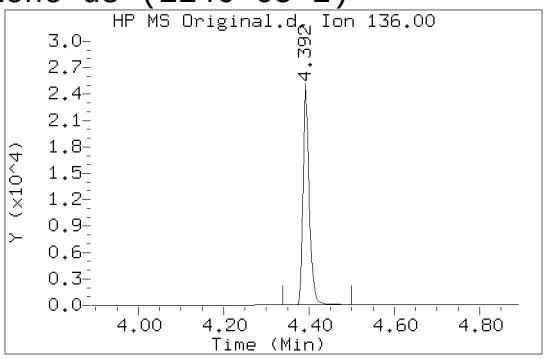
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

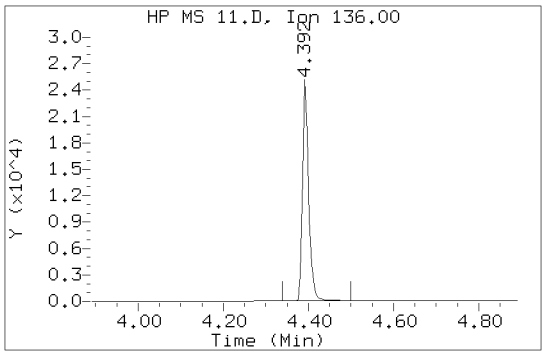
BEFORE

MASS
136
AREA
25175
HEIGHT
25116
18-Dec-2023
10:16
linh
pham



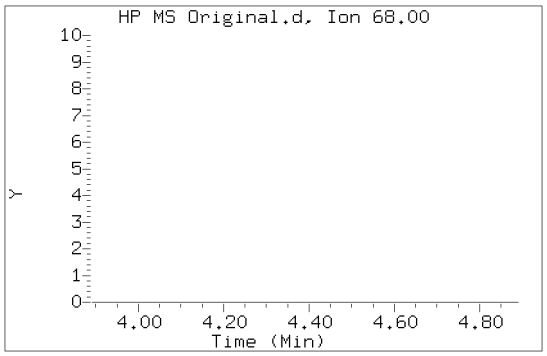
AFTER

MASS
136
AREA
25175
HEIGHT
25116
18-Dec-2023
10:16
linh
pham



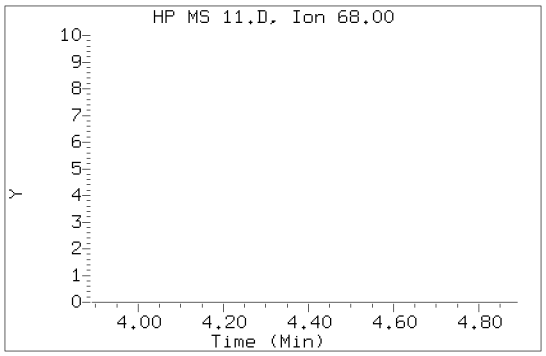
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

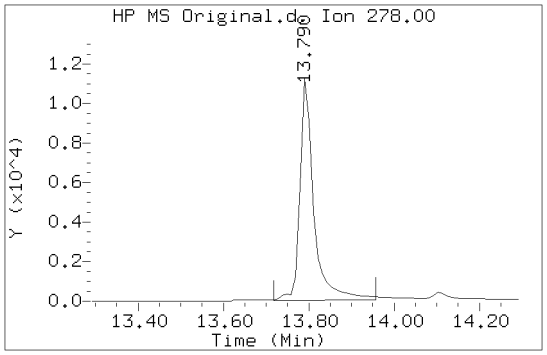


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

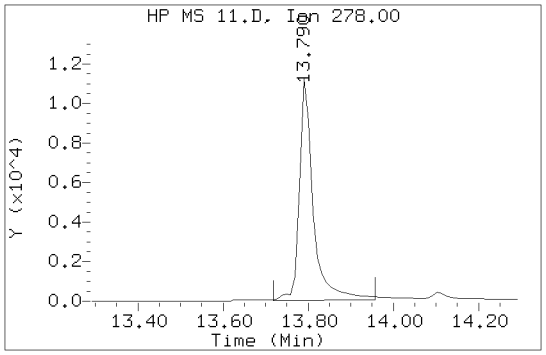
BEFORE

MASS
278
AREA
25333
HEIGHT
11194
18-Dec-2023
10:16
linh
pham



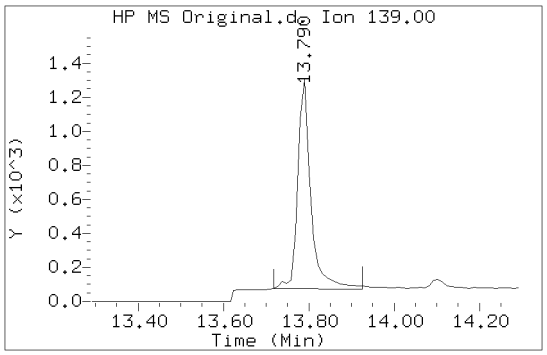
AFTER

MASS
278
AREA
25333
HEIGHT
11194
18-Dec-2023
10:16
linh
pham



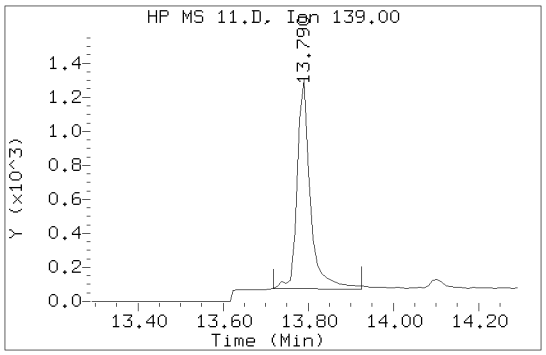
BEFORE

MASS
139
AREA
2624
HEIGHT
1229
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
2624
HEIGHT
1229
18-Dec-2023
10:16
linh
pham



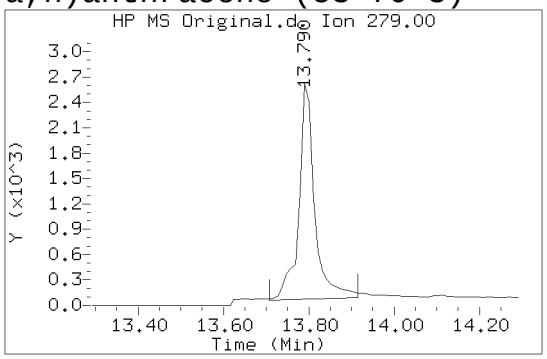
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

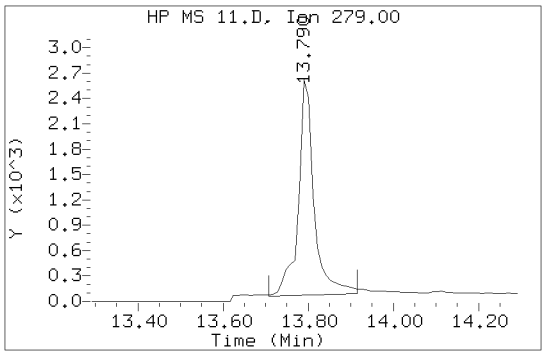
BEFORE

MASS
279
AREA
6544
HEIGHT
2548
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
6544
HEIGHT
2548
18-Dec-2023
10:16
linh
pham

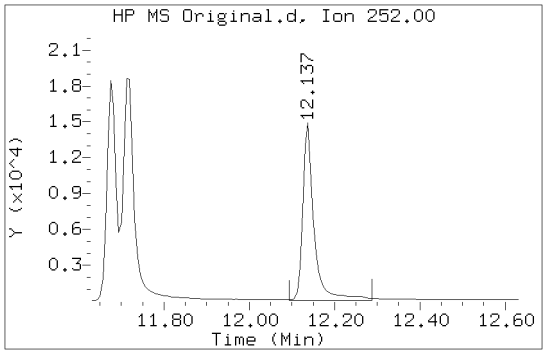


Benzo(a)pyrene (50-32-8)

Reason Code:

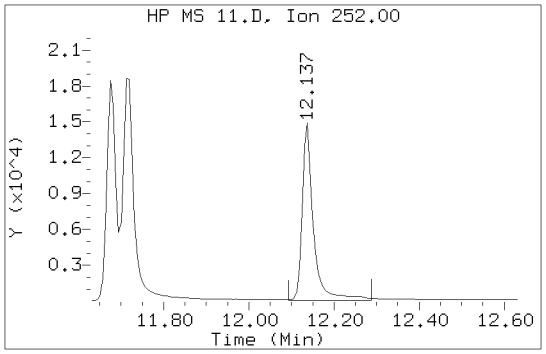
BEFORE

MASS
252
AREA
27244
HEIGHT
14841
18-Dec-2023
10:16
linh
pham



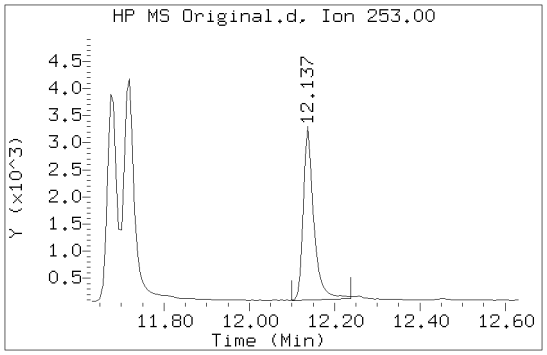
AFTER

MASS
252
AREA
27244
HEIGHT
14841
18-Dec-2023
10:16
linh
pham



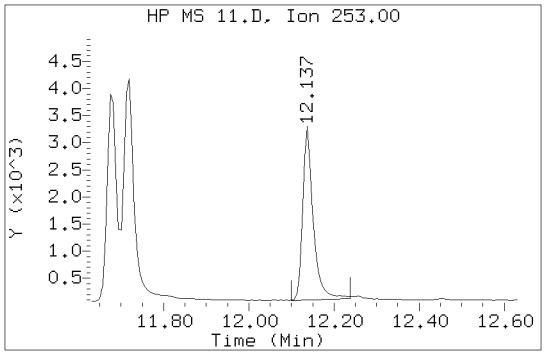
BEFORE

MASS
253
AREA
5589
HEIGHT
3204
18-Dec-2023
10:16
linh
pham



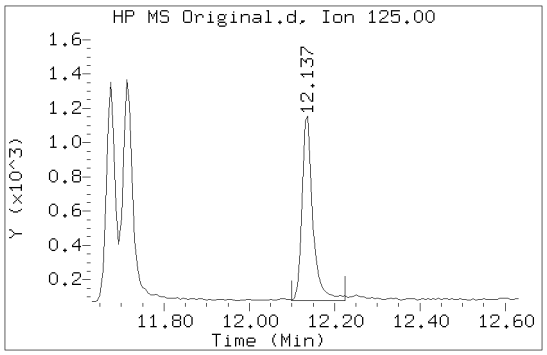
AFTER

MASS
253
AREA
5589
HEIGHT
3204
18-Dec-2023
10:16
linh
pham



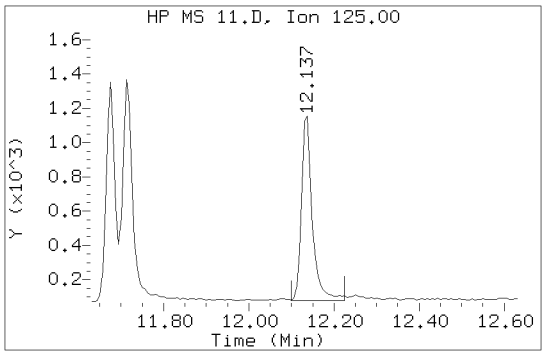
BEFORE

MASS
125
AREA
1933
HEIGHT
1075
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
1933
HEIGHT
1075
18-Dec-2023
10:16
linh
pham



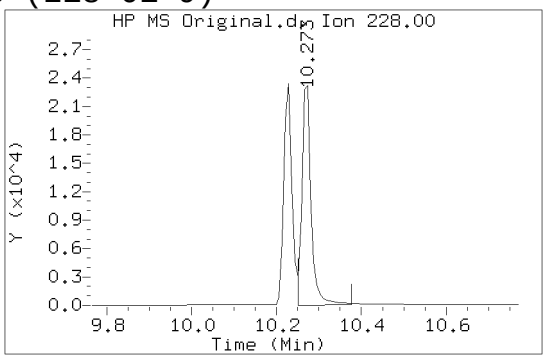
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Chrysene (218-01-9)

Reason Code:

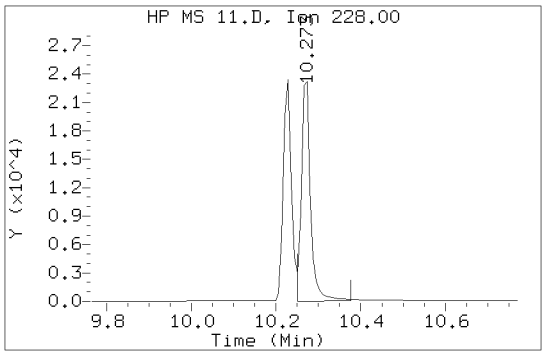
BEFORE

MASS
228
AREA
36118
HEIGHT
23168
18-Dec-2023
10:16
linh
pham



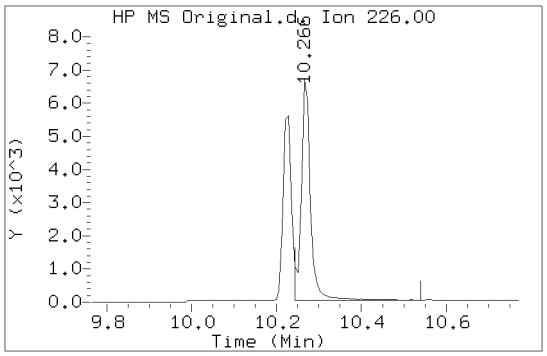
AFTER

MASS
228
AREA
36118
HEIGHT
23168
18-Dec-2023
10:16
linh
pham



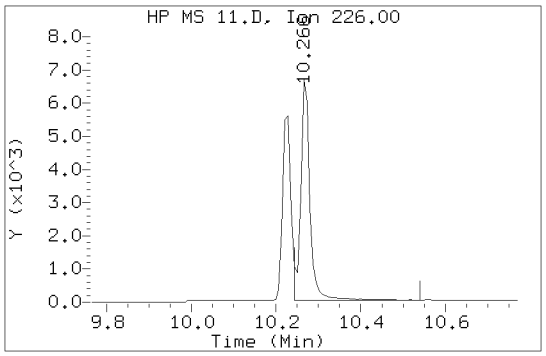
BEFORE

MASS
226
AREA
10410
HEIGHT
6644
18-Dec-2023
10:16
linh
pham



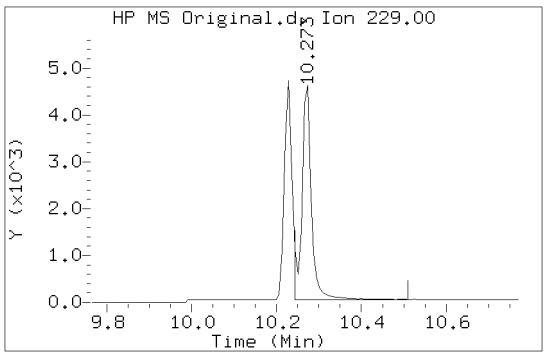
AFTER

MASS
226
AREA
10410
HEIGHT
6644
18-Dec-2023
10:16
linh
pham



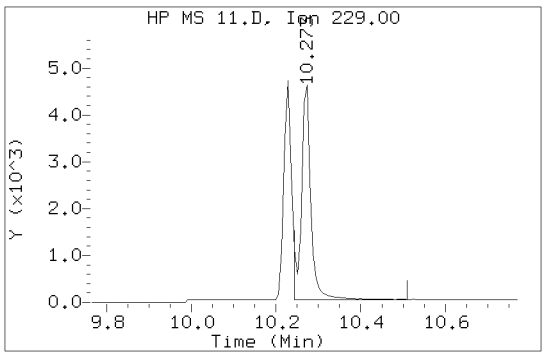
BEFORE

MASS
229
AREA
7513
HEIGHT
4584
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
7513
HEIGHT
4584
18-Dec-2023
10:16
linh
pham

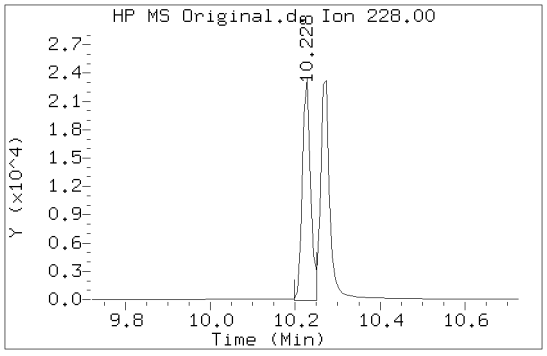


Benzo(a)Anthracene (56-55-3)

Reason Code:

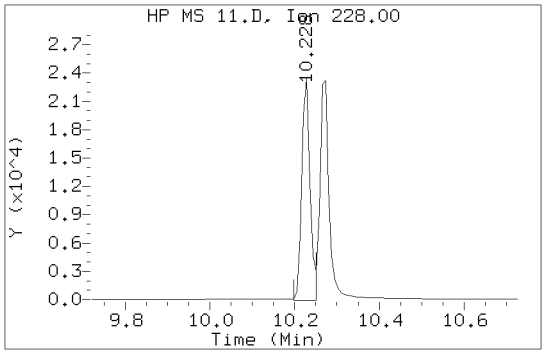
BEFORE

MASS
228
AREA
31817
HEIGHT
23478
18-Dec-2023
10:16
linh
pham



AFTER

MASS
228
AREA
31817
HEIGHT
23478
18-Dec-2023
10:16
linh
pham



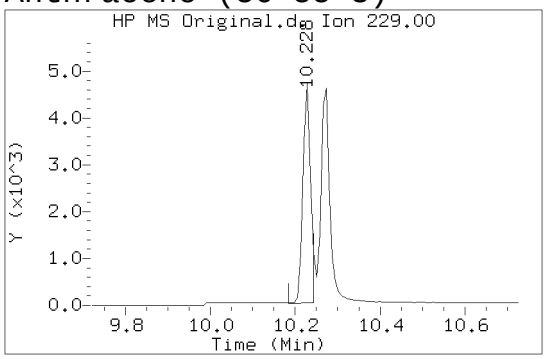
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Benzo(a)Anthracene (56-55-3)

Reason Code:

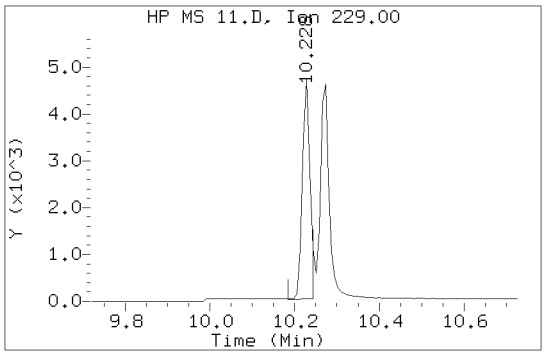
BEFORE

MASS
229
AREA
5825
HEIGHT
4680
18-Dec-2023
10:16
linh
pham



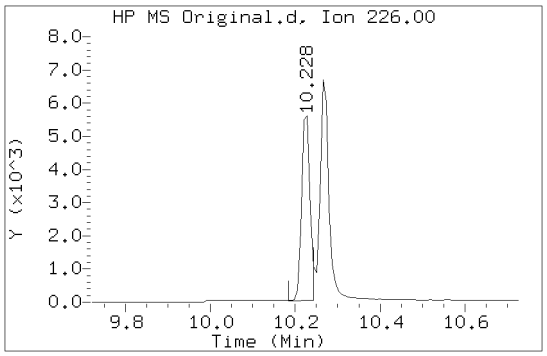
AFTER

MASS
229
AREA
5825
HEIGHT
4680
18-Dec-2023
10:16
linh
pham



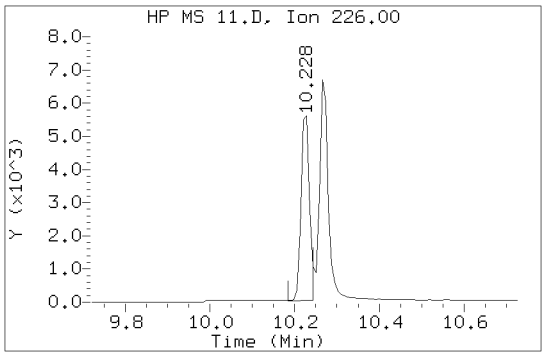
BEFORE

MASS
226
AREA
7676
HEIGHT
5565
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
7676
HEIGHT
5565
18-Dec-2023
10:16
linh
pham

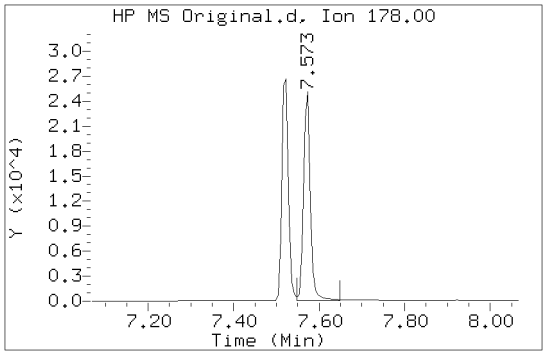


Anthracene (120-12-7)

Reason Code:

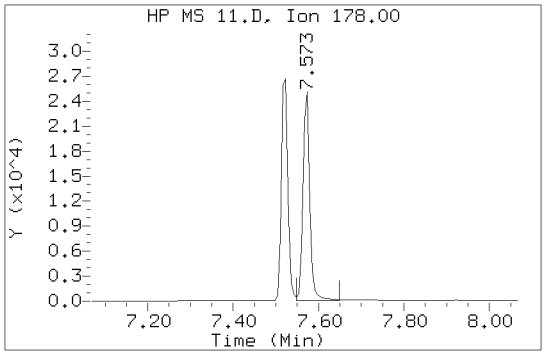
BEFORE

MASS
178
AREA
27519
HEIGHT
25045
18-Dec-2023
10:16
linh
pham



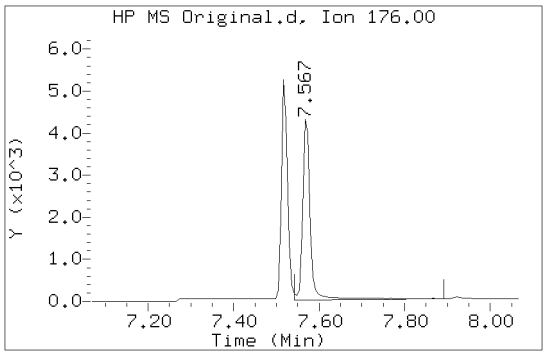
AFTER

MASS
178
AREA
27519
HEIGHT
25045
18-Dec-2023
10:16
linh
pham



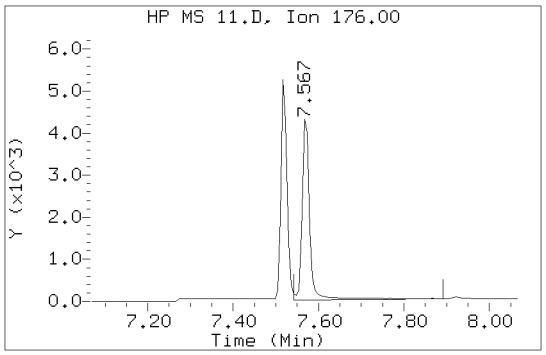
BEFORE

MASS
176
AREA
5290
HEIGHT
4301
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
5290
HEIGHT
4301
18-Dec-2023
10:16
linh
pham



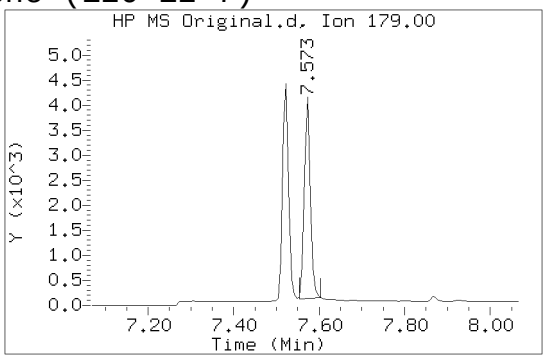
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Anthracene (120-12-7)

Reason Code:

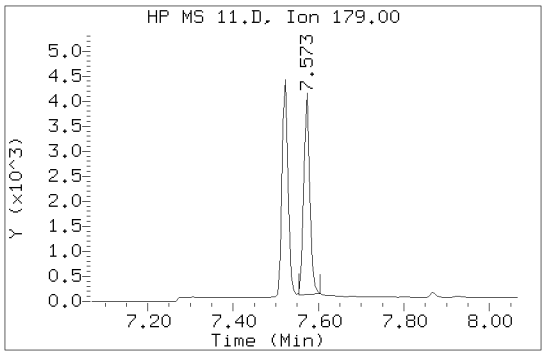
BEFORE

MASS
179
AREA
3902
HEIGHT
4017
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
3902
HEIGHT
4017
18-Dec-2023
10:16
linh
pham

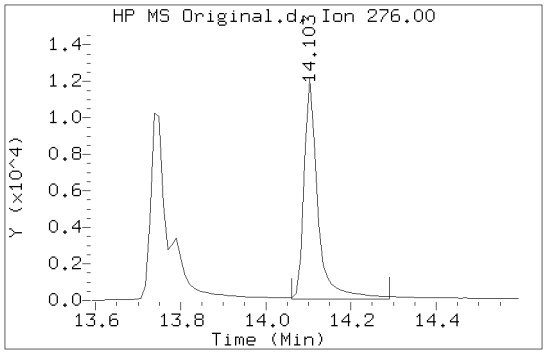


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

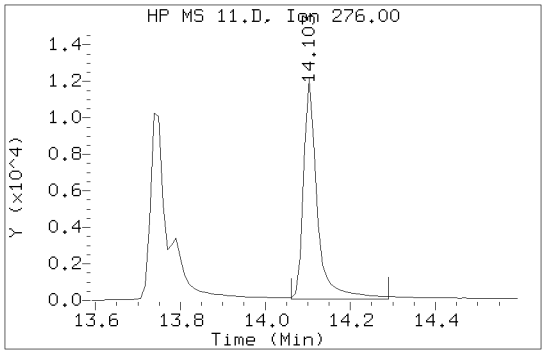
BEFORE

MASS
276
AREA
27319
HEIGHT
12091
18-Dec-2023
10:16
linh
pham



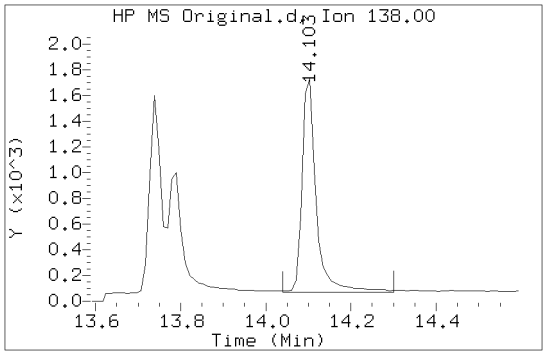
AFTER

MASS
276
AREA
27319
HEIGHT
12091
18-Dec-2023
10:16
linh
pham



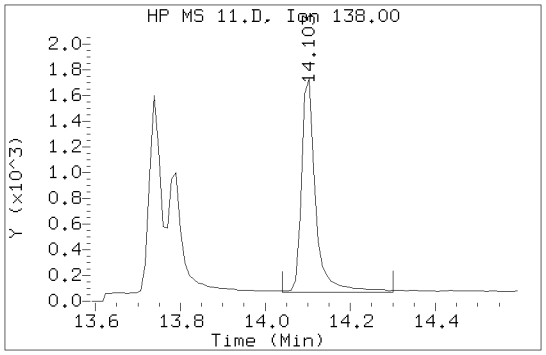
BEFORE

MASS
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AREA
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1659
18-Dec-2023
10:16
linh
pham



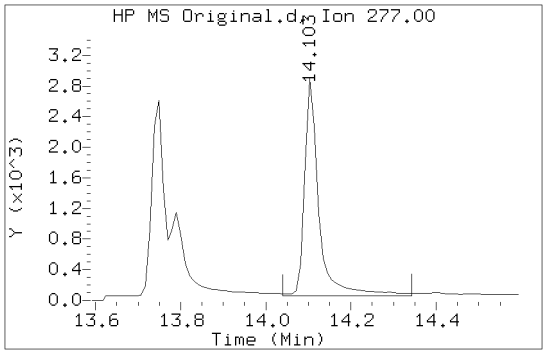
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18-Dec-2023
10:16
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pham



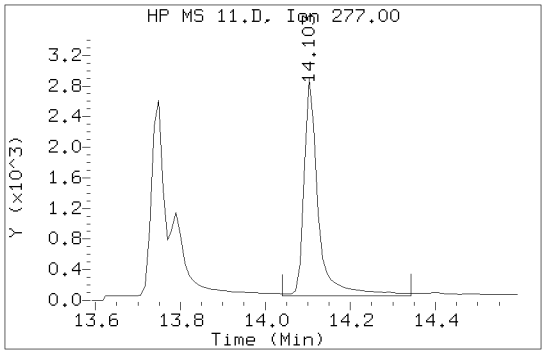
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18-Dec-2023
10:16
linh
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AFTER

MASS
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6650
HEIGHT
2837
18-Dec-2023
10:16
linh
pham



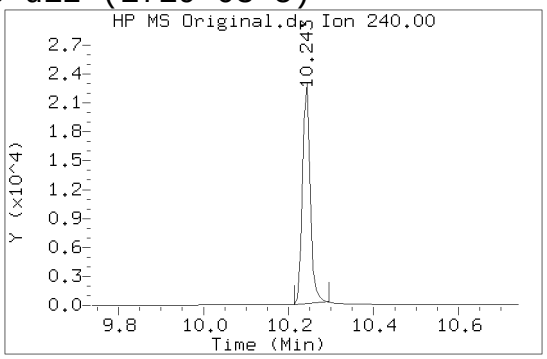
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

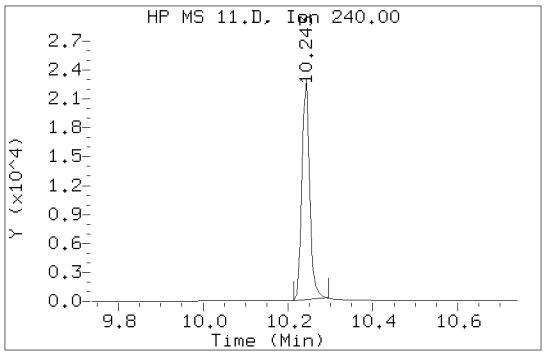
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18-Dec-2023
10:16
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pham



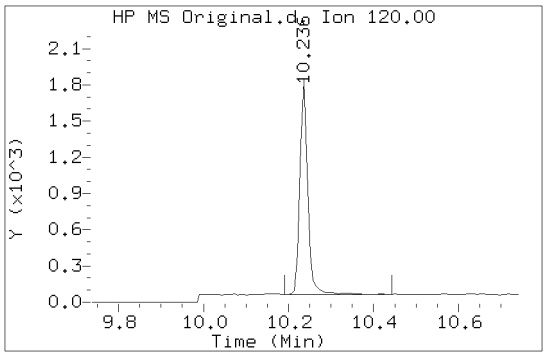
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AREA
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18-Dec-2023
10:16
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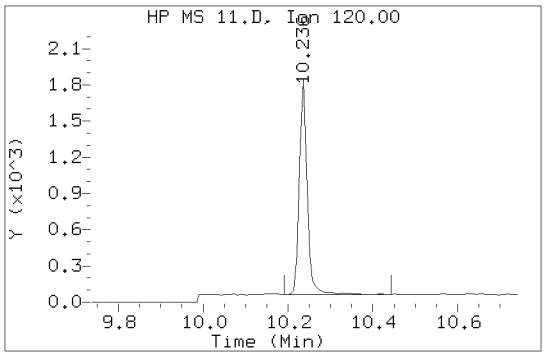
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10:16
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pham



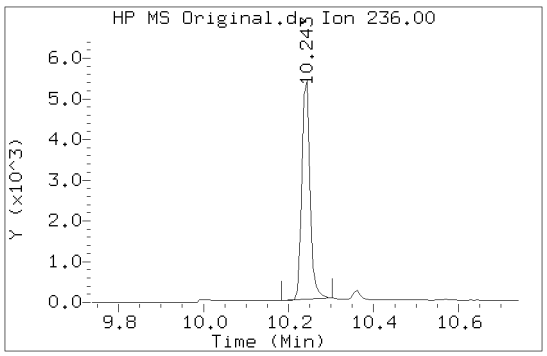
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AREA
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HEIGHT
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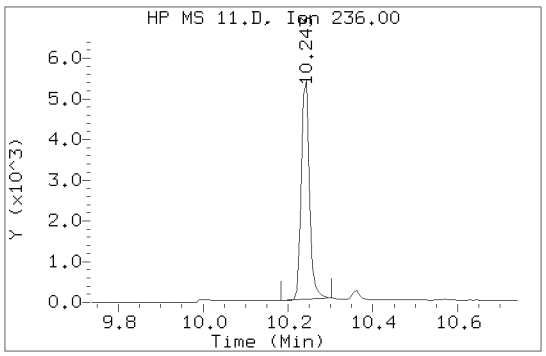
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18-Dec-2023
10:16
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AFTER

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HEIGHT
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18-Dec-2023
10:16
linh
pham

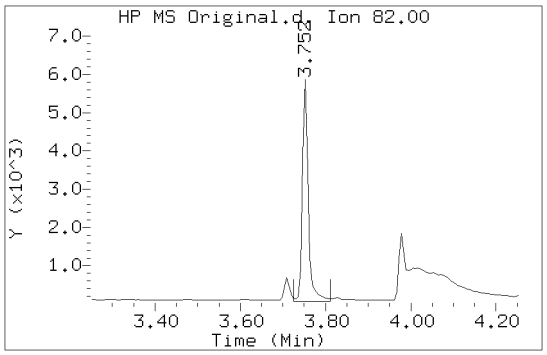


Nitrobenzene-d5 (4165-60-0)

Reason Code:

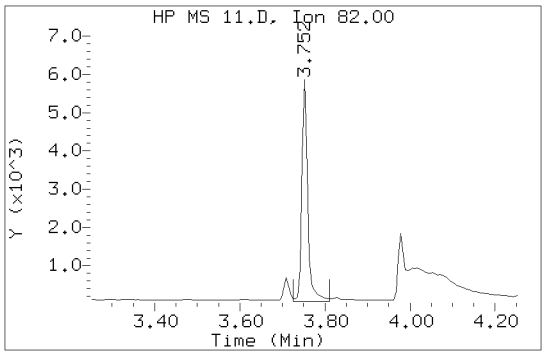
BEFORE

MASS
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AREA
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HEIGHT
5787
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
5427
HEIGHT
5787
18-Dec-2023
10:16
linh
pham



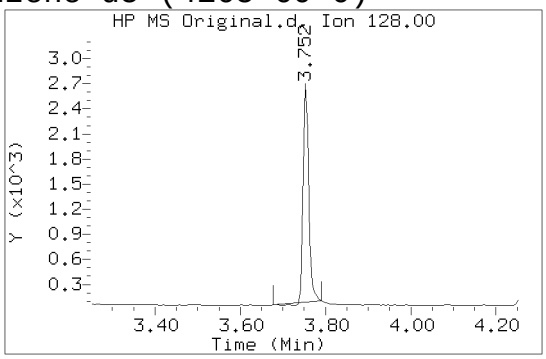
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Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

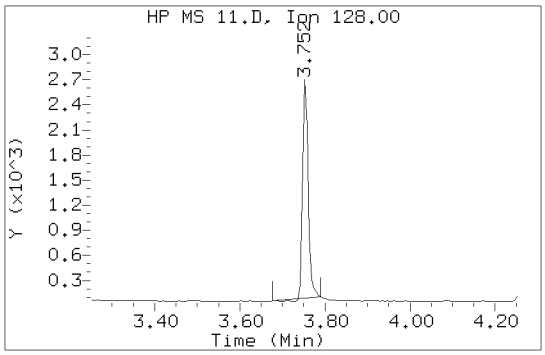
BEFORE

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AREA
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HEIGHT
2610
18-Dec-2023
10:16
linh
pham



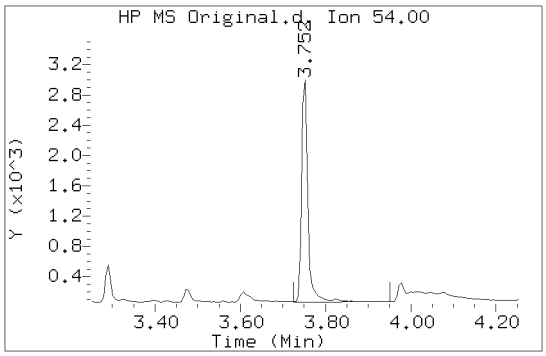
AFTER

MASS
128
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HEIGHT
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18-Dec-2023
10:16
linh
pham



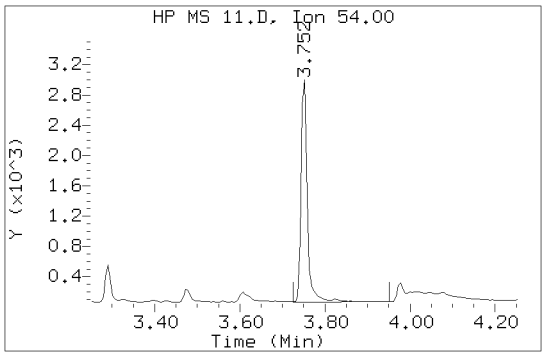
BEFORE

MASS
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AREA
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HEIGHT
2928
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
2942
HEIGHT
2928
18-Dec-2023
10:16
linh
pham



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\01.D Page 1
Report Date: 31-May-2024 12:46

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 31-MAY-2024 12:21
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240531.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	MASS	RESPONSE				
1 dftpp						CAS #: 5074-71-5		
4.790	5.571	-0.781	198	168704			0.00- 100.00	100.00
4.790	6.357	-1.567	51	53266			10.00- 80.00	31.57
4.790	6.357	-1.567	68	1064			0.00- 2.00	1.75
4.790	6.357	-1.567	69	60952			0.00- 0.00	36.13
4.790	6.357	-1.567	70	315			0.00- 2.00	0.52
4.790	6.357	-1.567	127	74656			10.00- 80.00	44.25
4.790	6.357	-1.567	197	0	0.0	0.0	0.00- 2.00	0.00
4.790	6.357	-1.567	199	12691			5.00- 9.00	7.52
4.790	6.357	-1.567	275	42112			10.00- 60.00	24.96
4.790	6.357	-1.567	365	5169			1.00- 100.00	3.06
4.790	6.357	-1.567	441	20552			0.01- 99.99	69.23
4.790	6.357	-1.567	442	146560			50.00- 150.00	86.87
4.790	6.357	-1.567	443	29688			15.00- 24.00	20.26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.57
68	Less than 2.00% of mass 69	0.63 (1.75)
69	Mass 69 relative abundance	36.13
70	Less than 2.00% of mass 69	0.19 (0.52)
127	10.00 - 80.00% of mass 198	44.25
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.52
275	10.00 - 60.00% of mass 198	24.96
365	1.00 - 100.00% of mass 198	3.06
441	Present, but less than mass 443	12.18
442	50.00 - 150.00% of mass 198	86.87
443	15.00 - 24.00% of mass 442	17.60 (20.26)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 410: 4.780 min. (SUB)
Location of Maximum: 197.90
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	201	125.00	992	197.90	168704	284.00	217
38.00	628	127.00	74656	199.00	12691	285.00	503
39.10	3463	128.00	5915	199.80	805	291.90	188
39.90	227	129.00	27312	201.40	1024	293.00	792
41.00	308	130.00	2561	202.90	1294	293.80	204
49.10	323	130.90	516	204.00	5269	295.90	9951
50.10	14791	131.80	325	205.00	9873	296.90	1289
51.10	53264	134.00	666	206.00	40160	298.40	343
52.00	2769	134.90	2449	207.00	6011	302.00	276
55.00	249	135.90	970	208.00	1492	303.00	1584
55.90	1491	137.10	1075	209.00	368	304.00	200
57.00	4015	138.10	253	210.50	1792	307.80	230
58.00	297	138.80	246	211.00	1781	309.90	295
61.10	853	140.00	396	212.10	184	311.70	160
62.00	789	141.00	3509	215.00	618	313.00	219
63.00	2220	142.00	1471	216.10	848	313.80	685
64.00	543	143.00	891	217.00	10384	315.10	1150
65.00	1057	143.90	274	217.80	1362	315.90	714
66.00	162	144.90	325	219.00	323	321.10	346
68.00	1064	145.90	604	221.00	9142	321.80	243
69.00	60952	147.00	2017	222.00	1533	323.00	3566
70.10	315	148.00	3368	223.00	2721	324.00	909
73.00	546	149.10	790	224.00	23288	326.90	762
74.00	6041	151.20	609	225.00	6141	327.80	401
75.00	9008	151.90	341	225.90	566	332.00	177
76.10	2846	153.00	1200	227.00	8040	332.90	389
77.00	66264	153.90	918	227.80	1034	334.00	2293
78.00	4173	155.00	1909	228.90	1921	335.00	748
79.00	4258	156.00	3408	229.90	361	340.80	342
80.00	3604	156.90	739	230.90	639	345.90	910
81.00	4696	157.90	691	232.80	240	347.00	205
81.90	1250	159.00	613	234.00	368	352.00	970
83.00	908	160.00	1113	235.00	522	353.00	866
84.00	87	161.00	2022	235.90	472	354.00	1116
85.00	817	162.00	520	236.90	572	354.90	291
86.00	1185	163.10	222	238.90	735	365.00	5169
87.00	466	164.00	169	240.10	315	365.90	648
88.00	276	164.90	1199	241.00	469	370.90	230
88.90	181	166.00	1023	242.00	982	371.90	1764
91.00	1096	167.00	6082	243.00	1705	372.90	384
92.00	1424	167.90	3395	244.00	19240	382.50	224
93.00	7432	168.90	718	245.00	3202	383.00	414
94.00	723	170.10	508	245.90	3438	383.80	189
96.10	458	171.00	505	246.90	604	390.90	270
98.00	4920	172.00	631	249.00	562	391.90	189

99.00	4189	173.00	818	251.00	156	400.80	269
99.80	545	174.00	1749	252.00	392	401.90	835
101.00	3011	175.00	3157	253.10	487	403.00	1113
102.90	1082	175.90	740	255.00	94336	403.90	527
104.00	1726	177.00	1357	256.00	14697	421.00	1197
105.00	1560	177.90	826	256.90	1356	422.00	1044
106.10	536	178.90	5024	258.00	4717	423.00	7273
107.00	20648	180.00	3809	259.00	861	423.90	1941
108.10	3383	180.90	1878	260.00	198	425.00	168
108.90	649	182.00	325	264.90	1776	436.40	209
110.00	38624	183.90	627	265.90	593	437.70	221
111.00	6181	185.00	2931	271.60	316	439.20	389
112.00	1023	186.00	20968	272.10	393	441.00	20552
113.00	366	187.00	6224	273.00	3302	442.00	146560
116.00	1533	188.00	732	274.00	7158	443.00	29688
117.00	14033	188.80	1000	275.00	42112	444.00	2990
118.00	1132	191.00	442	276.00	5628	444.80	189
120.00	325	192.00	2071	277.00	3171		
122.00	1534	193.00	2076	278.00	671		
122.90	1391	194.00	451	280.80	183		
123.90	937	196.00	5381	282.90	418		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\01.D

Date : 31-MAY-2024 12:21

Client ID: DFTPP

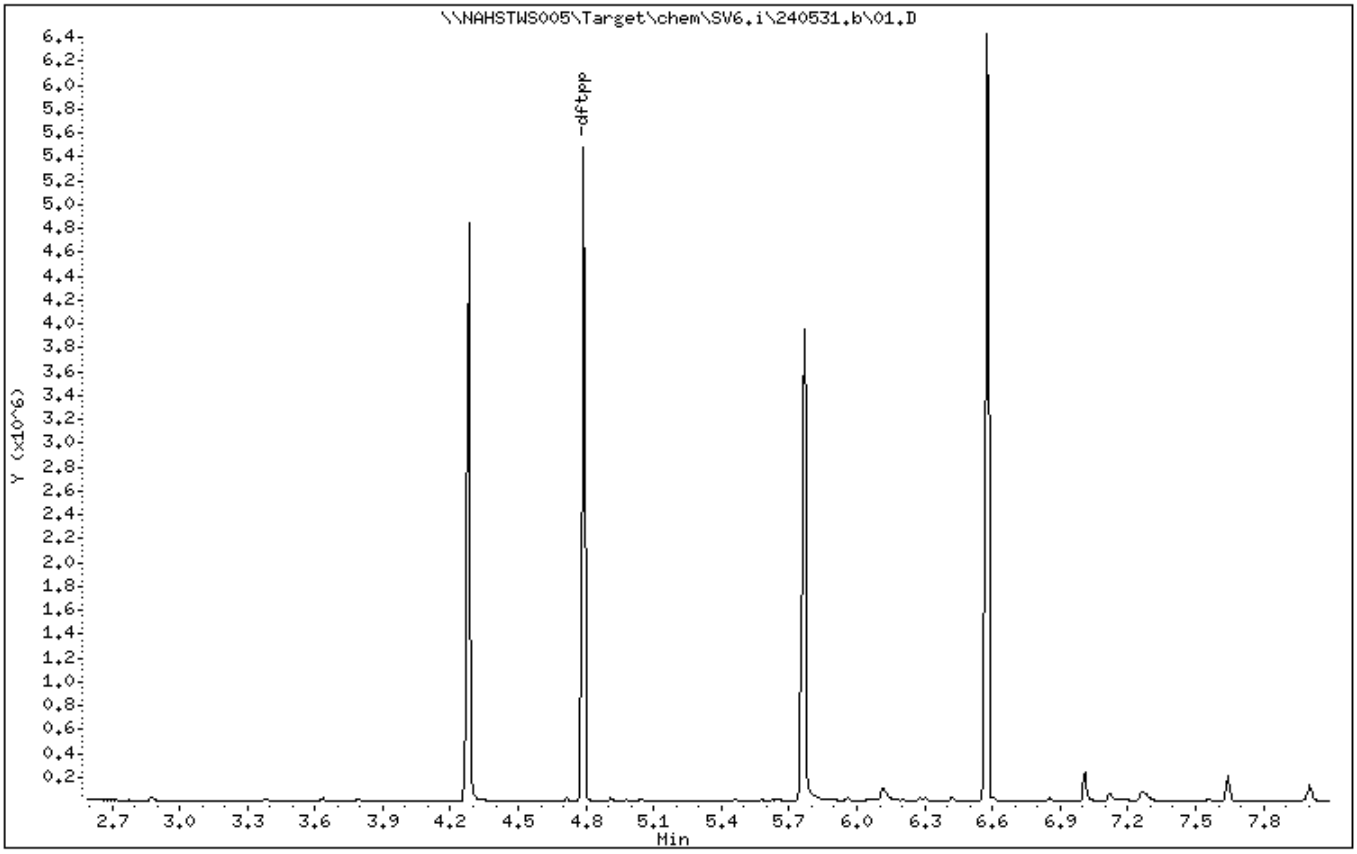
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\01.D Page 2

Date : 31-MAY-2024 12:21

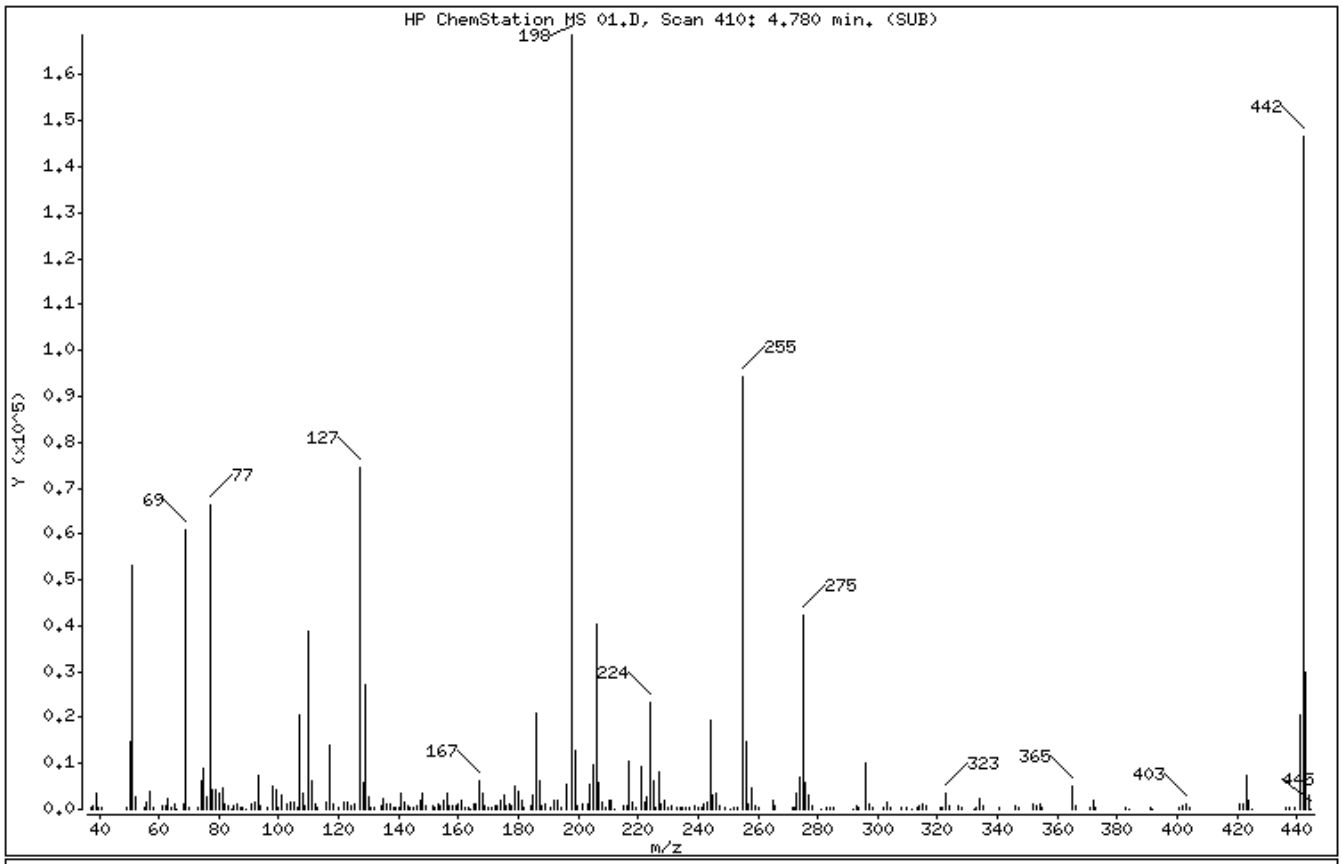
Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.57
68	Less than 2.00% of mass 69	0.63 (1.75)
69	Mass 69 relative abundance	36.13
70	Less than 2.00% of mass 69	0.19 (0.52)
127	10.00 - 80.00% of mass 198	44.25
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.52
275	10.00 - 60.00% of mass 198	24.96
365	1.00 - 100.00% of mass 198	3.06
441	Present, but less than mass 443	12.18
442	50.00 - 150.00% of mass 198	86.87
443	15.00 - 24.00% of mass 442	17.60 (20.26)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\01.D Page 3

Date : 31-MAY-2024 12:21

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 410: 4.780 min. (SUB)
Location of Maximum: 197.90
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	201	125.00	992	197.90	168704	284.00	217
38.00	628	127.00	74656	199.00	12691	285.00	503
39.10	3463	128.00	5915	199.80	805	291.90	188
39.90	227	129.00	27312	201.40	1024	293.00	792
41.00	308	130.00	2561	202.90	1294	293.80	204
49.10	323	130.90	516	204.00	5269	295.90	9951
50.10	14791	131.80	325	205.00	9873	296.90	1289
51.10	53264	134.00	666	206.00	40160	298.40	343
52.00	2769	134.90	2449	207.00	6011	302.00	276
55.00	249	135.90	970	208.00	1492	303.00	1584
55.90	1491	137.10	1075	209.00	368	304.00	200
57.00	4015	138.10	253	210.50	1792	307.80	230
58.00	297	138.80	246	211.00	1781	309.90	295
61.10	853	140.00	396	212.10	184	311.70	160
62.00	789	141.00	3509	215.00	618	313.00	219
63.00	2220	142.00	1471	216.10	848	313.80	685
64.00	543	143.00	891	217.00	10384	315.10	1150
65.00	1057	143.90	274	217.80	1362	315.90	714
66.00	162	144.90	325	219.00	323	321.10	346
68.00	1064	145.90	604	221.00	9142	321.80	243
69.00	60952	147.00	2017	222.00	1533	323.00	3566
70.10	315	148.00	3368	223.00	2721	324.00	909
73.00	546	149.10	790	224.00	23288	326.90	762
74.00	6041	151.20	609	225.00	6141	327.80	401
75.00	9008	151.90	341	225.90	566	332.00	177
76.10	2846	153.00	1200	227.00	8040	332.90	389
77.00	66264	153.90	918	227.80	1034	334.00	2293
78.00	4173	155.00	1909	228.90	1921	335.00	748
79.00	4258	156.00	3408	229.90	361	340.80	342
80.00	3604	156.90	739	230.90	639	345.90	910
81.00	4696	157.90	691	232.80	240	347.00	205
81.90	1250	159.00	613	234.00	368	352.00	970
83.00	908	160.00	1113	235.00	522	353.00	866
84.00	87	161.00	2022	235.90	472	354.00	1116
85.00	817	162.00	520	236.90	572	354.90	291

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\01.D

Date : 31-MAY-2024 12:21

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 410: 4.780 min. (SUB)
Location of Maximum: 197.90
Number of points: 260

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	1185	163.10	222	238.90	735	365.00	5169
87.00	466	164.00	169	240.10	315	365.90	648
88.00	276	164.90	1199	241.00	469	370.90	230
88.90	181	166.00	1023	242.00	982	371.90	1764
91.00	1096	167.00	6082	243.00	1705	372.90	384
92.00	1424	167.90	3395	244.00	19240	382.50	224
93.00	7432	168.90	718	245.00	3202	383.00	414
94.00	723	170.10	508	245.90	3438	383.80	189
96.10	458	171.00	505	246.90	604	390.90	270
98.00	4920	172.00	631	249.00	562	391.90	189
99.00	4189	173.00	818	251.00	156	400.80	269
99.80	545	174.00	1749	252.00	392	401.90	835
101.00	3011	175.00	3157	253.10	487	403.00	1113
102.90	1082	175.90	740	255.00	94336	403.90	527
104.00	1726	177.00	1357	256.00	14697	421.00	1197
105.00	1560	177.90	826	256.90	1356	422.00	1044
106.10	536	178.90	5024	258.00	4717	423.00	7273
107.00	20648	180.00	3809	259.00	861	423.90	1941
108.10	3383	180.90	1878	260.00	198	425.00	168
108.90	649	182.00	325	264.90	1776	436.40	209
110.00	38624	183.90	627	265.90	593	437.70	221
111.00	6181	185.00	2931	271.60	316	439.20	389
112.00	1023	186.00	20968	272.10	393	441.00	20552
113.00	366	187.00	6224	273.00	3302	442.00	146560
116.00	1533	188.00	732	274.00	7158	443.00	29688
117.00	14033	188.80	1000	275.00	42112	444.00	2990
118.00	1132	191.00	442	276.00	5628	444.80	189
120.00	325	192.00	2071	277.00	3171		
122.00	1534	193.00	2076	278.00	671		
122.90	1391	194.00	451	280.80	183		
123.90	937	196.00	5381	282.90	418		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D Page 1
Report Date: 31-May-2024 14:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 31-MAY-2024 14:08
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 14:28 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.685	2.685	(1.000)	2730	0.10000	(aM)
* 45 Naphthalene-d8	136	3.723	3.723	(1.000)	9039	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.125	3.125	(0.839)	2136	0.08000	0.07872(QM)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	5721	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	6671	0.08000	0.07628(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	10746	0.10000	(M)
* 182 Chrysene-d12	240	9.456	9.456	(1.000)	7872	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.354	8.354	(0.883)	10921	0.08000	0.06810(M)
* 198 Perylene-d12	264	11.339	11.339	(1.000)	9436	0.10000	(M)
1 1,4-Dioxane	58	1.275	1.275	(0.475)	478	0.08000	0.08174(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D

Date : 31-MAY-2024 14:08

Client ID: 14DX-0.08

Instrument: SV6.i

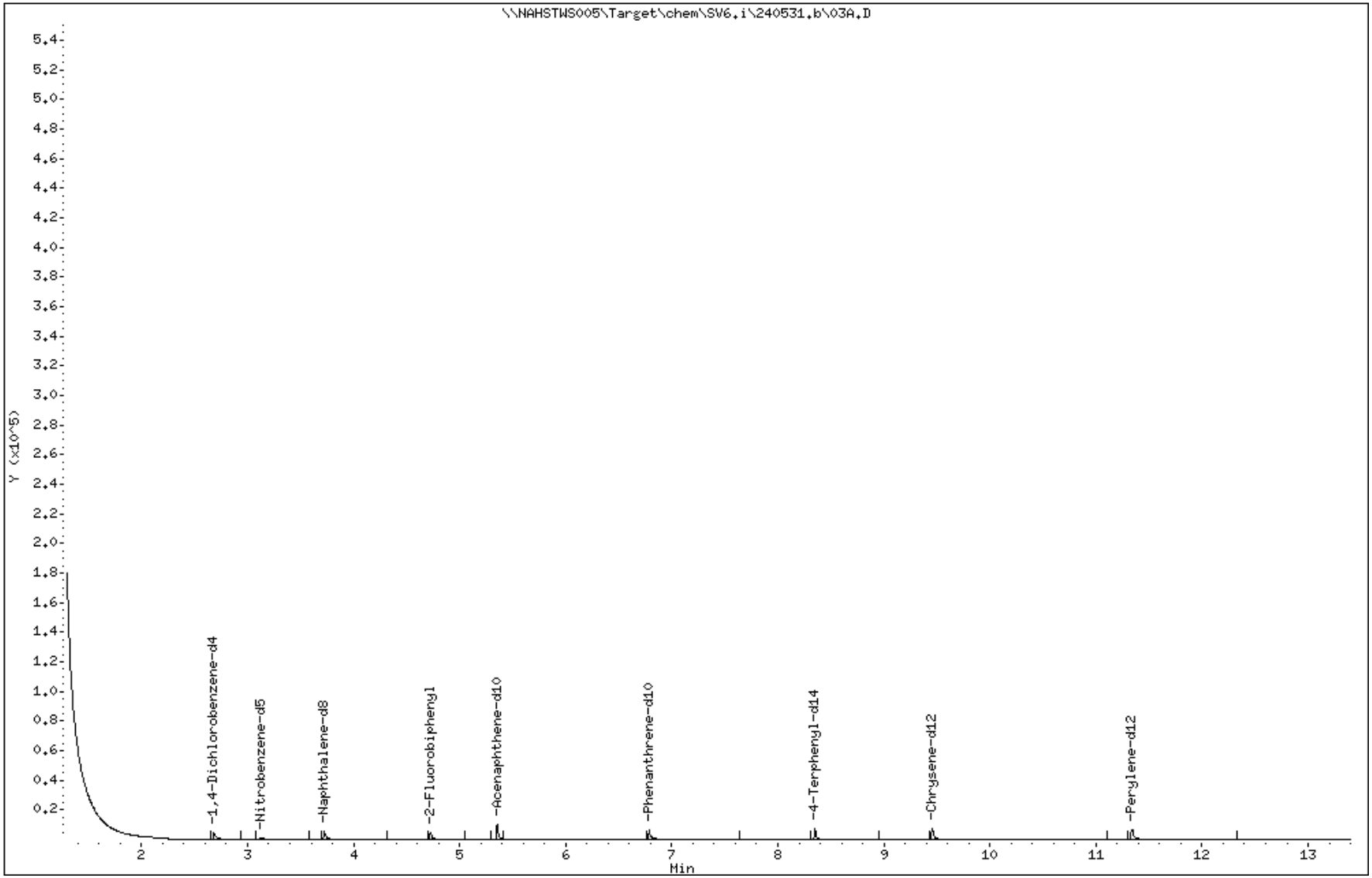
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



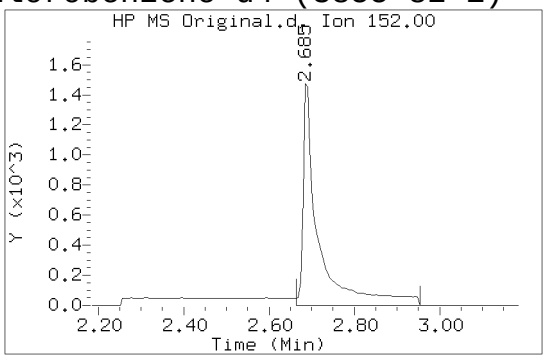
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Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

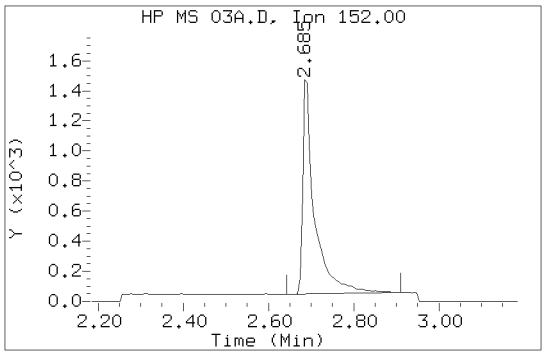
BEFORE

MASS
152
AREA
3686
HEIGHT
1474
31-May-2024
14:23
marco
gutierrez



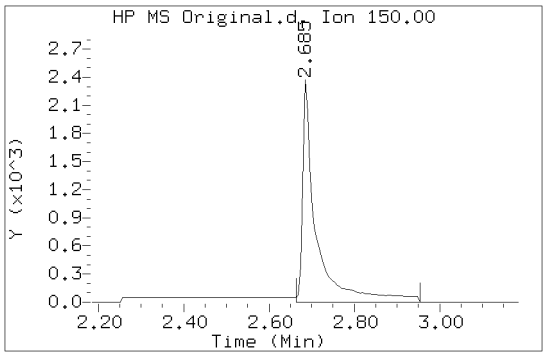
AFTER

MASS
152
AREA
2730
HEIGHT
1424
31-May-2024
14:28
marco
gutierrez



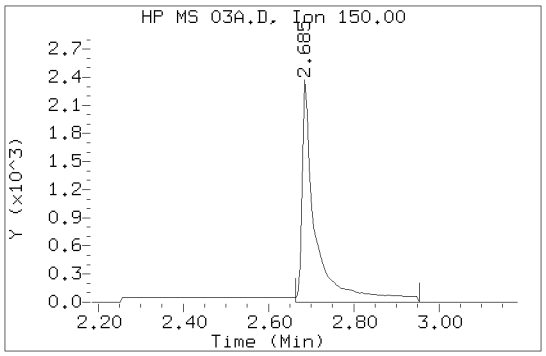
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AREA
5283
HEIGHT
2371
31-May-2024
14:23
marco
gutierrez



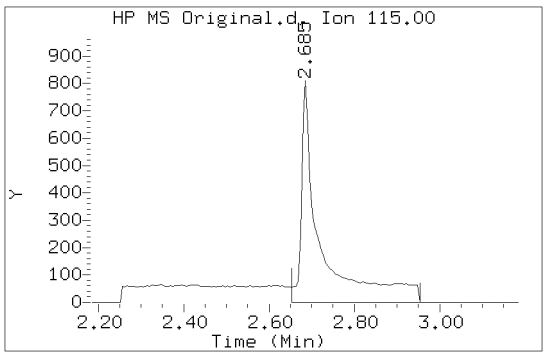
AFTER

MASS
150
AREA
5283
HEIGHT
2371
31-May-2024
14:28
marco
gutierrez



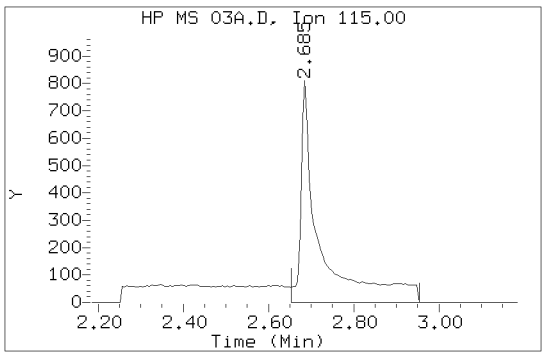
BEFORE

MASS
115
AREA
2487
HEIGHT
810
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
115
AREA
2487
HEIGHT
810
31-May-2024
14:28
marco
gutierrez

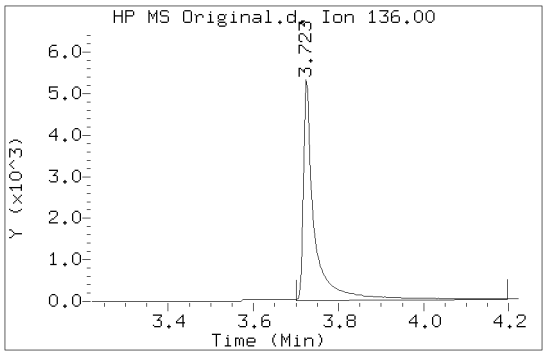


Naphthalene-d8 (1146-65-2)

Reason Code:

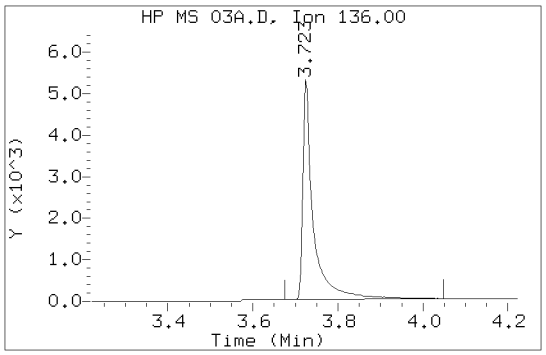
BEFORE

MASS
136
AREA
9906
HEIGHT
5325
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
136
AREA
9039
HEIGHT
5288
31-May-2024
14:28
marco
gutierrez



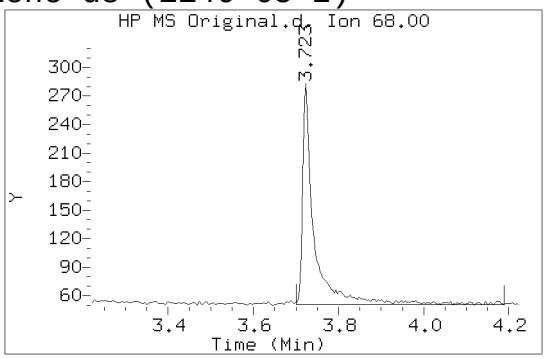
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Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

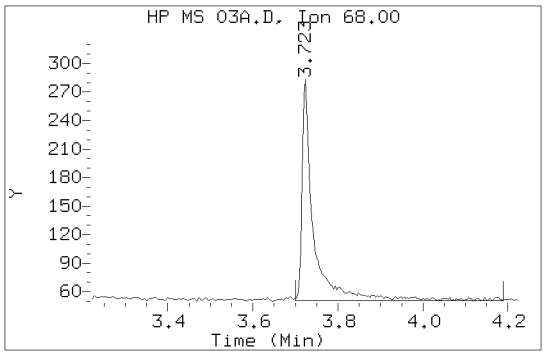
BEFORE

MASS
68
AREA
441
HEIGHT
232
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
68
AREA
441
HEIGHT
232
31-May-2024
14:28
marco
gutierrez

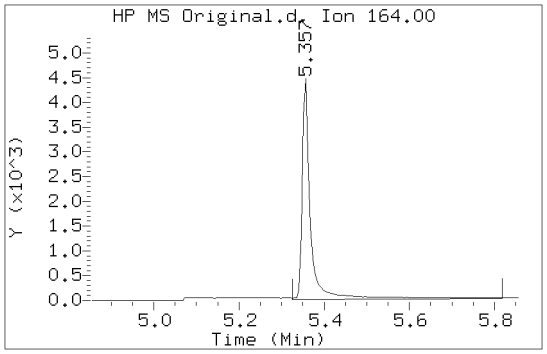


Acenaphthene-d10 (15067-26-2)

Reason Code:

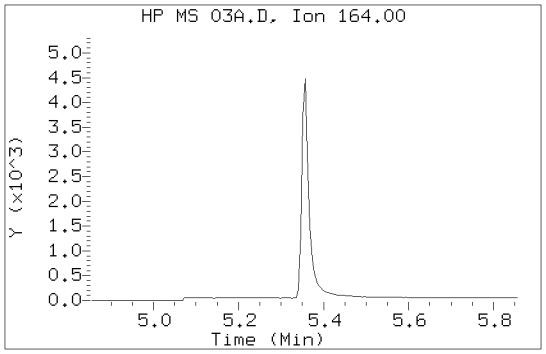
BEFORE

MASS
164
AREA
6177
HEIGHT
4460
31-May-2024
14:23
marco
gutierrez



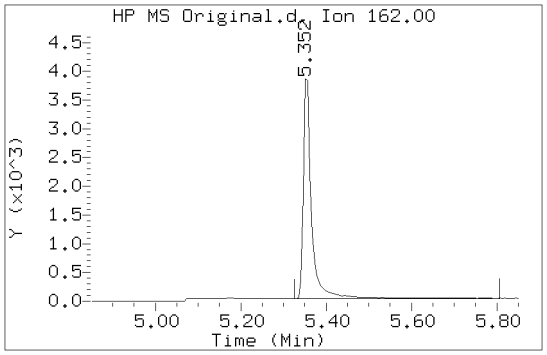
AFTER

MASS
164
AREA
5721
HEIGHT
4433
31-May-2024
14:28
marco
gutierrez



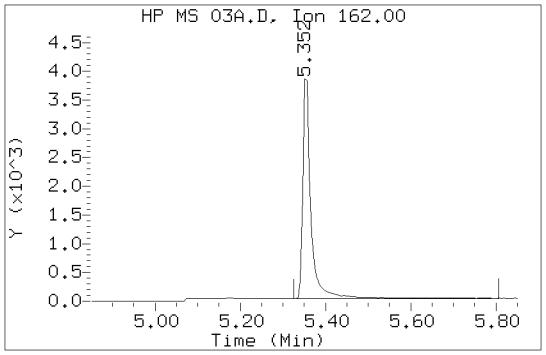
BEFORE

MASS
162
AREA
5202
HEIGHT
3820
31-May-2024
14:23
marco
gutierrez



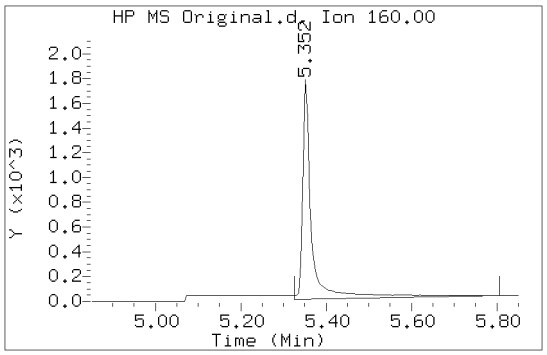
AFTER

MASS
162
AREA
5202
HEIGHT
3820
31-May-2024
14:28
marco
gutierrez



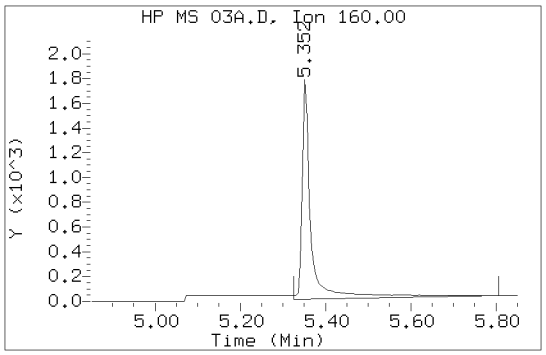
BEFORE

MASS
160
AREA
2664
HEIGHT
1772
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
160
AREA
2664
HEIGHT
1772
31-May-2024
14:28
marco
gutierrez



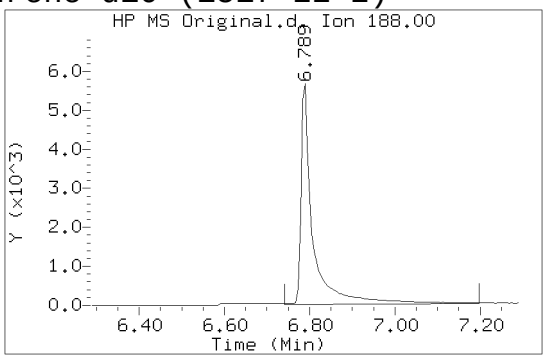
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

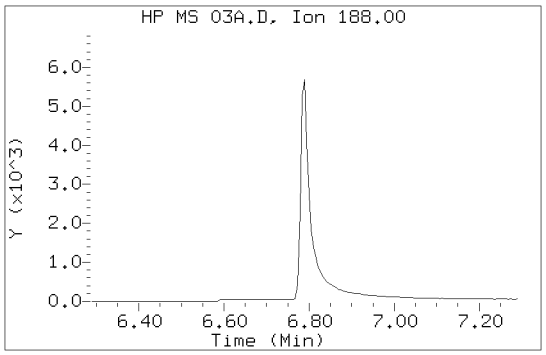
BEFORE

MASS
188
AREA
11208
HEIGHT
5664
31-May-2024
14:23
marco
gutierrez



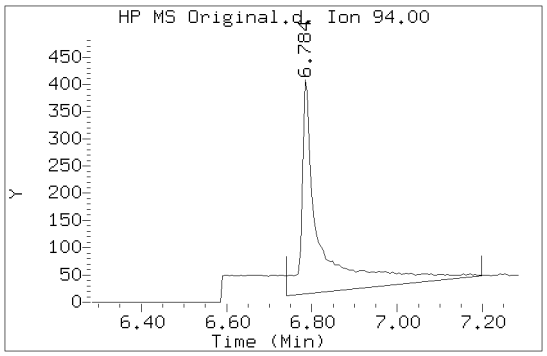
AFTER

MASS
188
AREA
10746
HEIGHT
5636
31-May-2024
14:28
marco
gutierrez



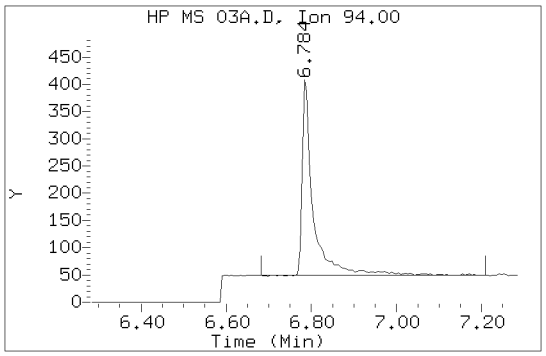
BEFORE

MASS
94
AREA
1193
HEIGHT
392
31-May-2024
14:23
marco
gutierrez



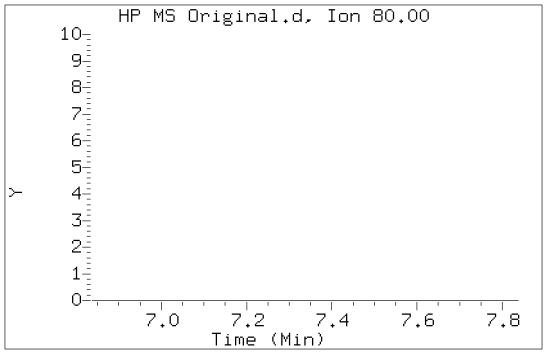
AFTER

MASS
94
AREA
664
HEIGHT
359
31-May-2024
14:28
marco
gutierrez



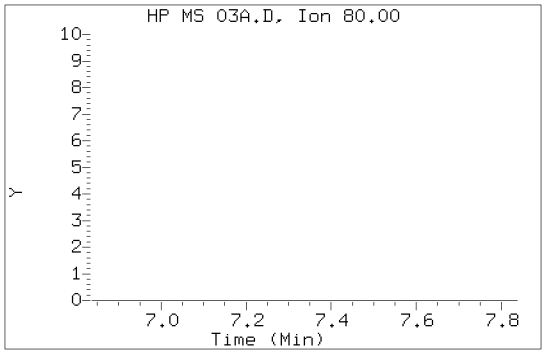
BEFORE

MASS
80
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
80
AREA
0
HEIGHT
0
31-May-2024
14:28
marco
gutierrez

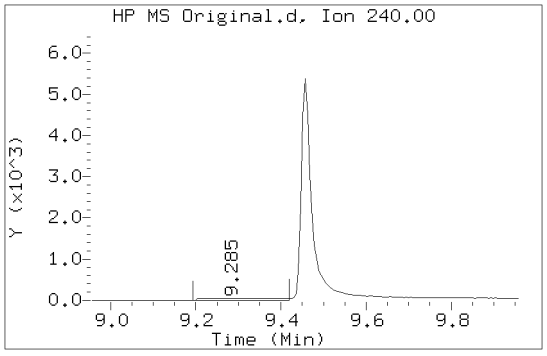


Chrysene-d12 (1719-03-5)

Reason Code:

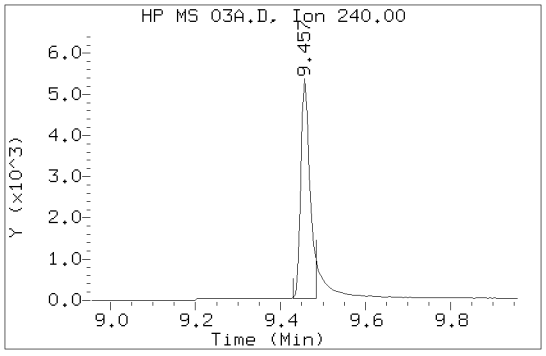
BEFORE

MASS
240
AREA
606
HEIGHT
47
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
240
AREA
7872
HEIGHT
5333
31-May-2024
14:28
marco
gutierrez



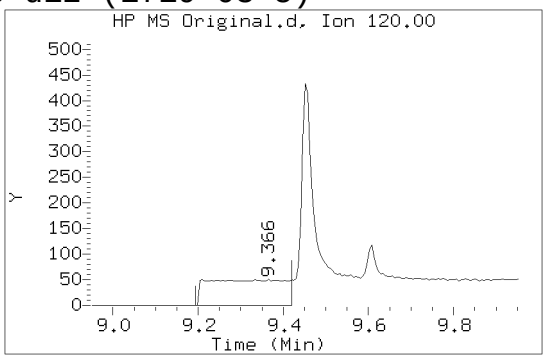
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

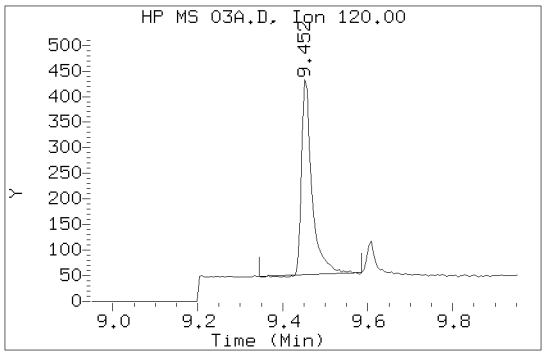
BEFORE

MASS
120
AREA
641
HEIGHT
51
31-May-2024
14:23
marco
gutierrez



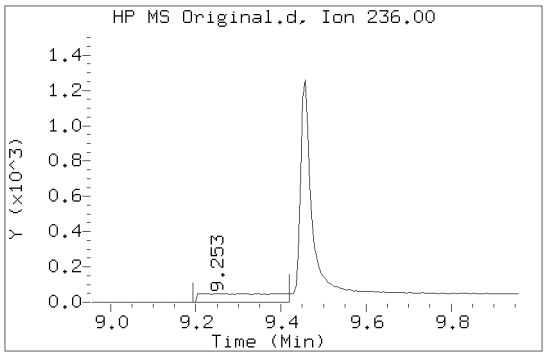
AFTER

MASS
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AREA
638
HEIGHT
380
31-May-2024
14:28
marco
gutierrez



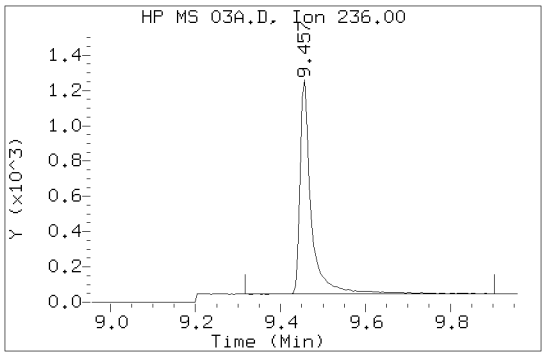
BEFORE

MASS
236
AREA
607
HEIGHT
47
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
236
AREA
2210
HEIGHT
1213
31-May-2024
14:28
marco
gutierrez

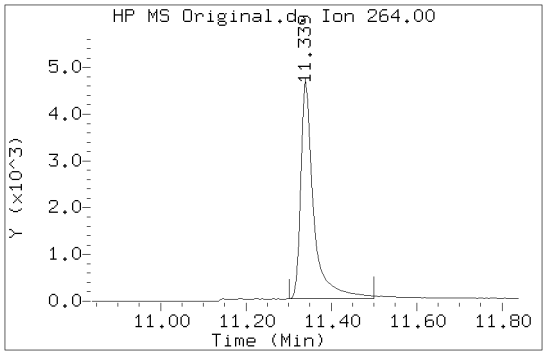


Perylene-d12 (1520-96-3)

Reason Code:

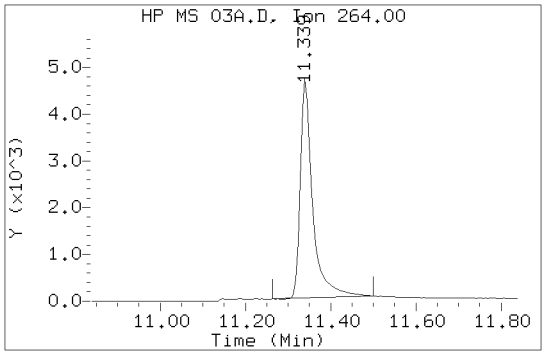
BEFORE

MASS
264
AREA
9883
HEIGHT
4702
31-May-2024
14:23
marco
gutierrez



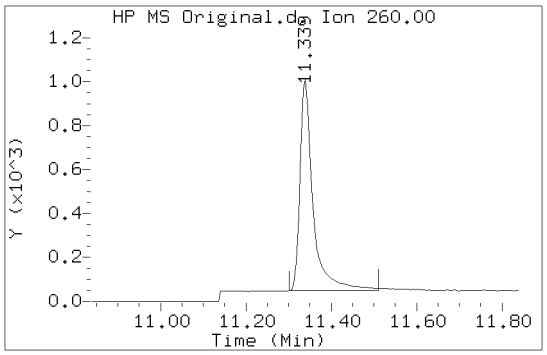
AFTER

MASS
264
AREA
9436
HEIGHT
4682
31-May-2024
14:28
marco
gutierrez



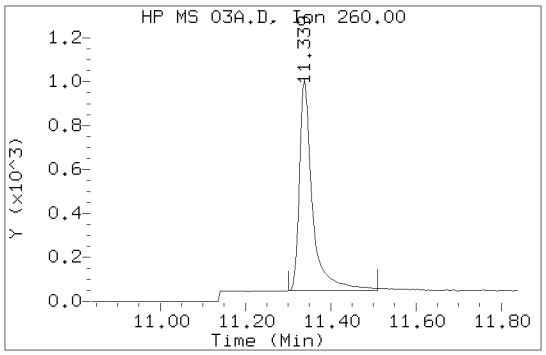
BEFORE

MASS
260
AREA
2052
HEIGHT
960
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
260
AREA
2052
HEIGHT
960
31-May-2024
14:28
marco
gutierrez



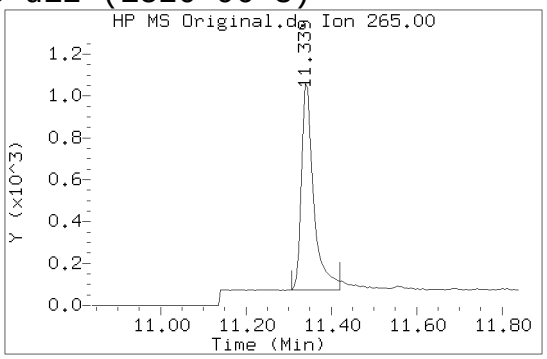
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

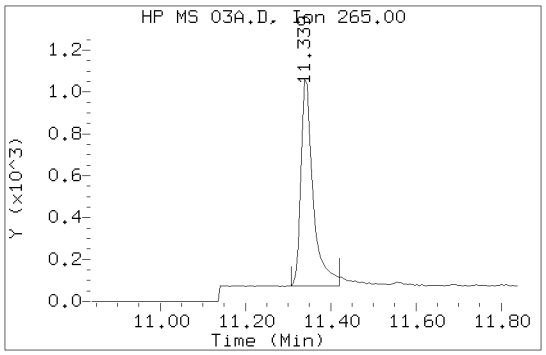
BEFORE

MASS
265
AREA
1974
HEIGHT
985
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
265
AREA
1974
HEIGHT
985
31-May-2024
14:28
marco
gutierrez

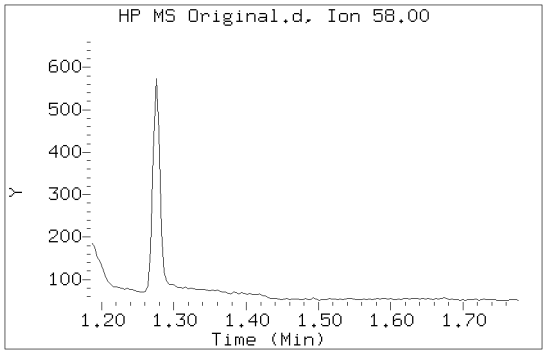


1,4-Dioxane ()

Reason Code:

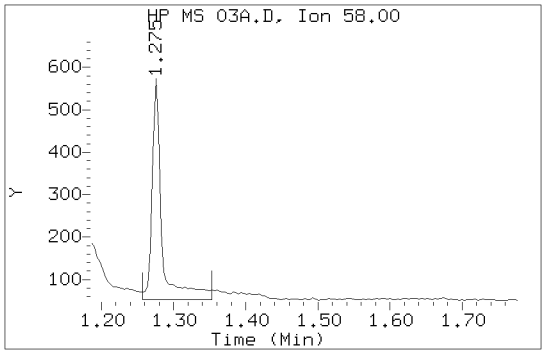
BEFORE

MASS
58
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



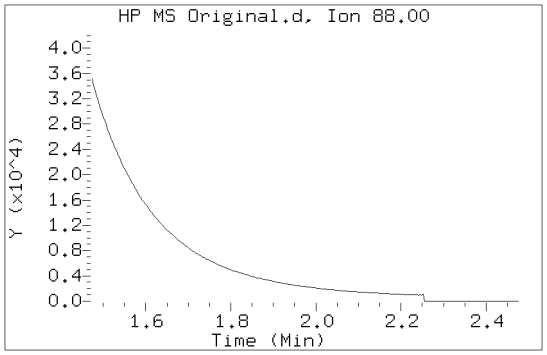
AFTER

MASS
58
AREA
478
HEIGHT
520
31-May-2024
14:28
marco
gutierrez



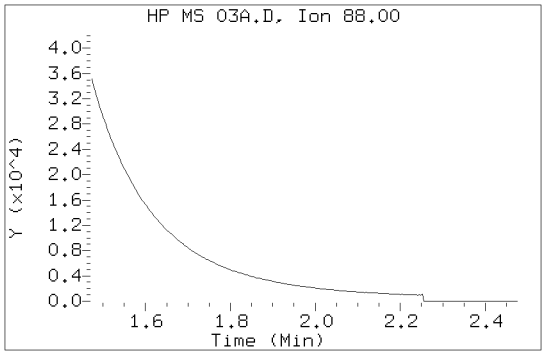
BEFORE

MASS
88
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
88
AREA
0
HEIGHT
0
31-May-2024
14:28
marco
gutierrez

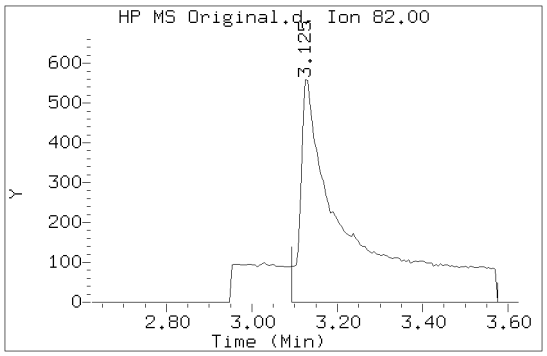


Nitrobenzene-d5 (4165-60-0)

Reason Code:

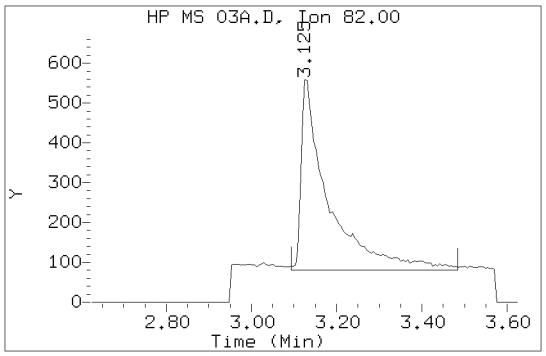
BEFORE

MASS
82
AREA
4515
HEIGHT
558
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
82
AREA
2136
HEIGHT
477
31-May-2024
14:28
marco
gutierrez

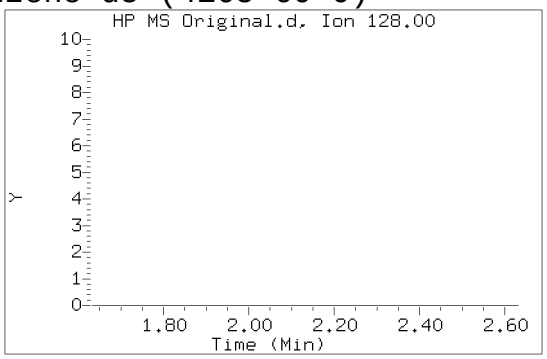


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

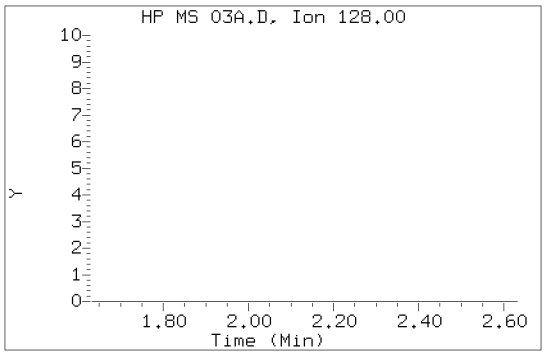
Nitrobenzene-d5 (4165-60-0)

Reason Code:

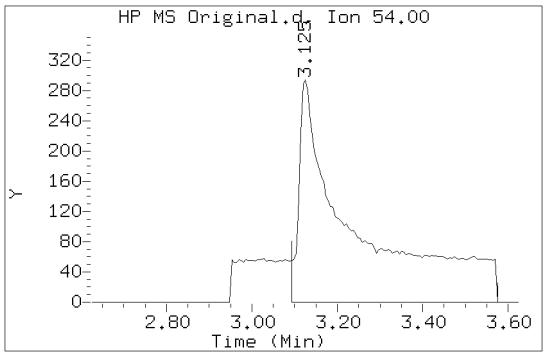
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



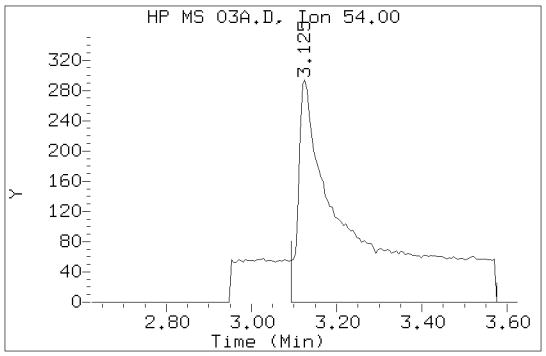
AFTER
MASS
128
AREA
0
HEIGHT
0
31-May-2024
14:28
marco
gutierrez



BEFORE
MASS
54
AREA
2629
HEIGHT
294
31-May-2024
14:23
marco
gutierrez



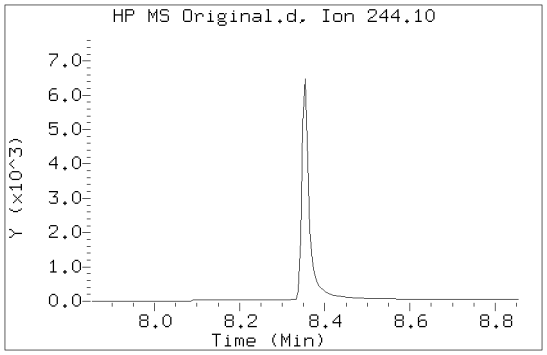
AFTER
MASS
54
AREA
2629
HEIGHT
294
31-May-2024
14:28
marco
gutierrez



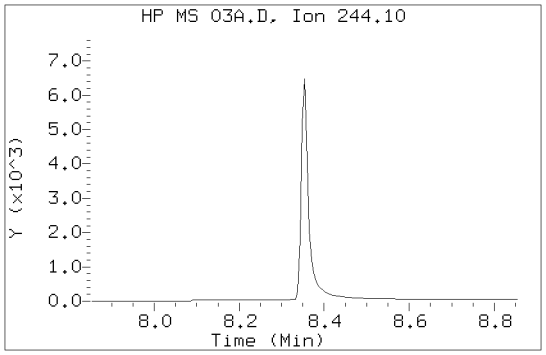
4-Terphenyl-d14 (1718-51-0)

Reason Code:

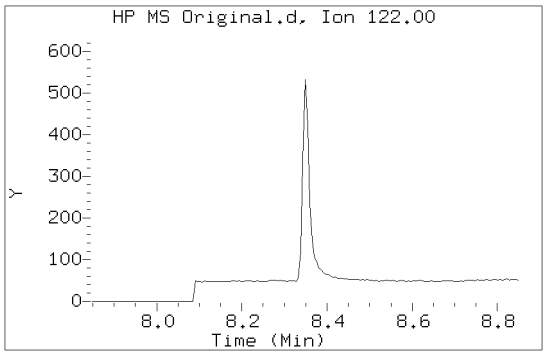
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



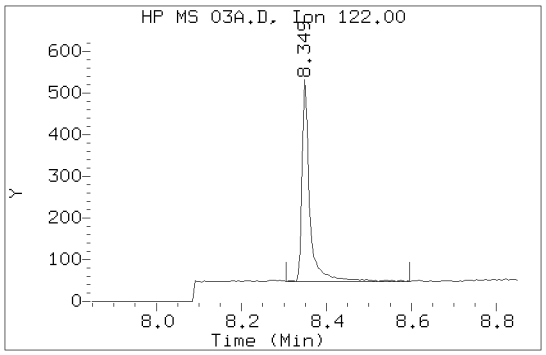
AFTER
MASS
244.1
AREA
10921
HEIGHT
6472
31-May-2024
14:28
marco
gutierrez



BEFORE
MASS
122
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



AFTER
MASS
122
AREA
600
HEIGHT
484
31-May-2024
14:28
marco
gutierrez



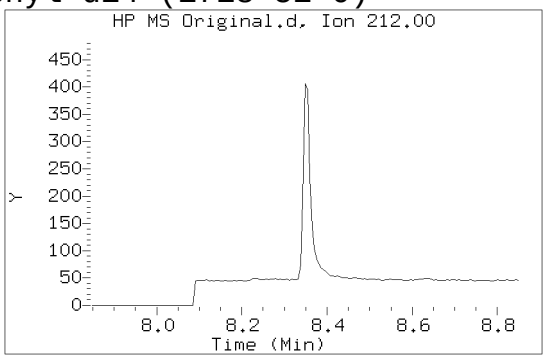
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\03A.D
Inj Date : 31-MAY-2024 14:08
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

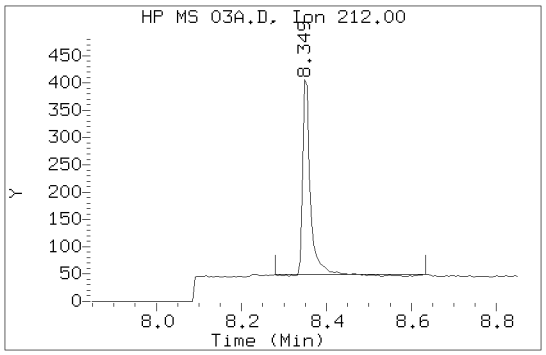
BEFORE

MASS
212
AREA
0
HEIGHT
0
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
212
AREA
416
HEIGHT
357
31-May-2024
14:28
marco
gutierrez

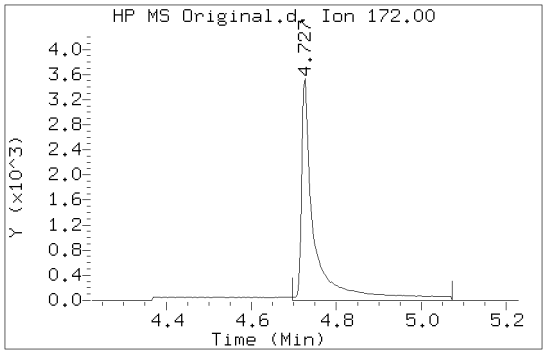


2-Fluorobiphenyl (321-60-8)

Reason Code:

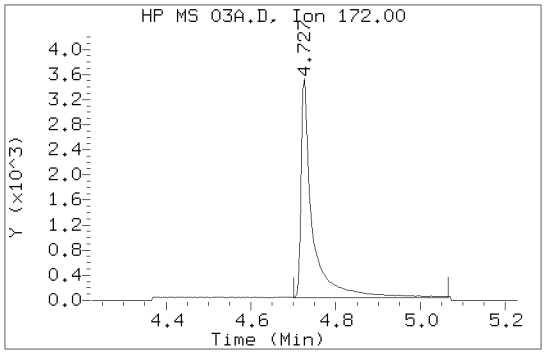
BEFORE

MASS
172
AREA
7557
HEIGHT
3534
31-May-2024
14:23
marco
gutierrez



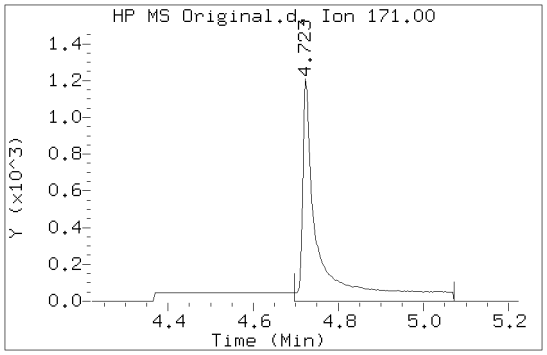
AFTER

MASS
172
AREA
6671
HEIGHT
3495
31-May-2024
14:28
marco
gutierrez



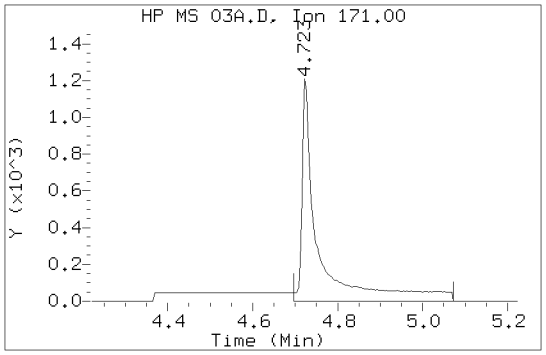
BEFORE

MASS
171
AREA
3199
HEIGHT
1209
31-May-2024
14:23
marco
gutierrez



AFTER

MASS
171
AREA
3199
HEIGHT
1209
31-May-2024
14:28
marco
gutierrez



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\06.D
Lab Smp Id: HS24051277-01
Inj Date : 31-MAY-2024 15:06
Operator : LG Inst ID: SV6.i
Smp Info : HS24051277-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

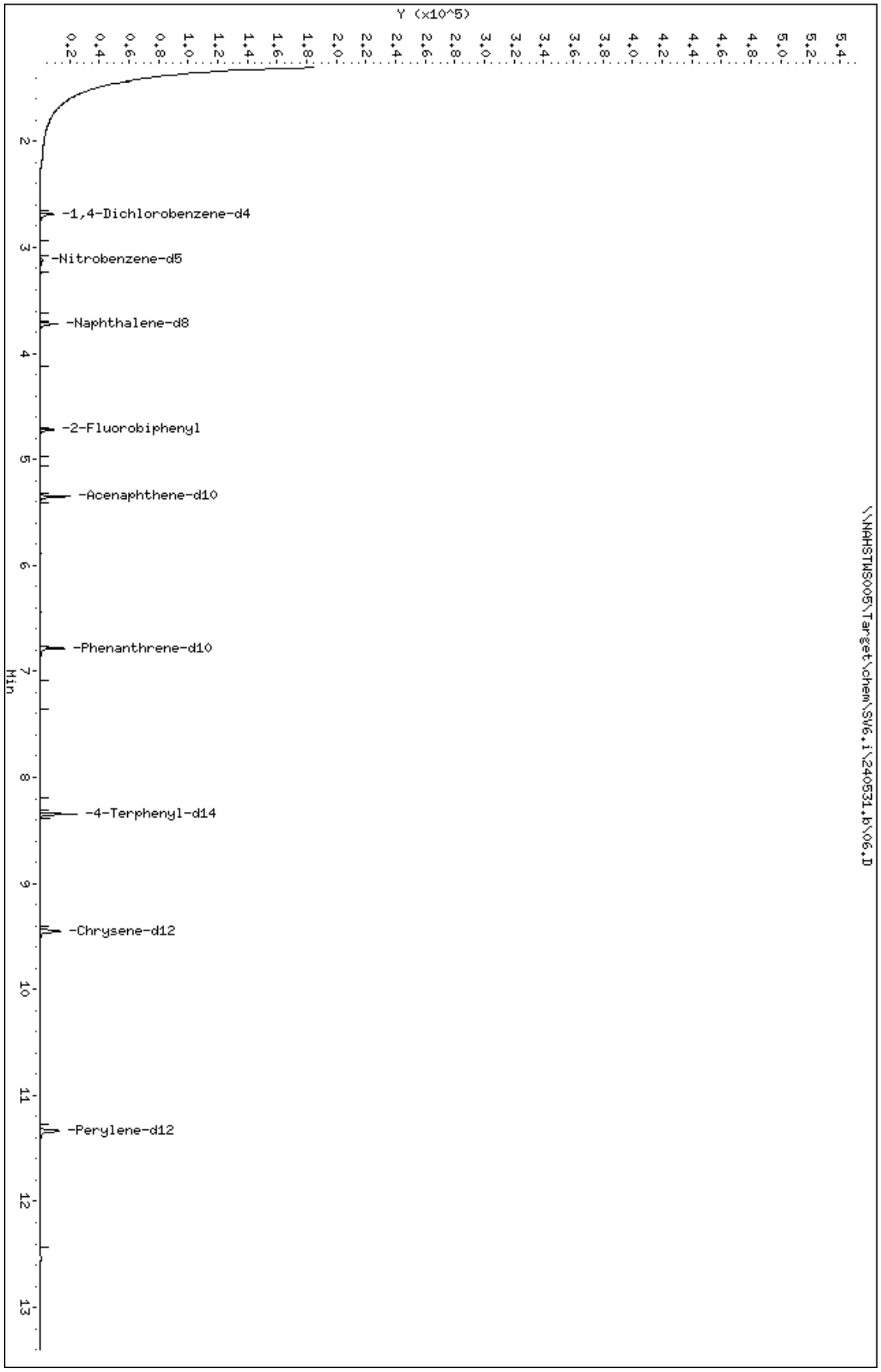
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	4263	0.10000	(aM)
* 45 Naphthalene-d8	136	3.723	3.727	(1.000)	13986	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.119	3.135	(0.838)	2565	0.06109	0.06109(M)
* 86 Acenaphthene-d10	164	5.351	5.356	(1.000)	8856	0.10000	
$ 69 2-Fluorobiphenyl	172	4.722	4.726	(0.883)	9515	0.07028	0.07028
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	16784	0.10000	(M)
* 182 Chrysene-d12	240	9.451	9.462	(1.000)	14591	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	22335	0.07514	0.07514(M)
* 198 Perylene-d12	264	11.333	11.344	(1.000)	15819	0.10000	(M)
1 1,4-Dioxane	58	1.308	1.267	(0.486)	3161	0.34618	0.3462(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\06.D
Date : 31-MAY-2024 15:06
Client ID:
Sample Info: HS24051277-01
Purge Volume: 1000.0
Column phase: RTX-5SIL MS
Instrument: SV6.i
Operator: LG
Column diameter: 0.28
\\NAHSTWS005\Target\chem\SV6.i\240531.b\06.D
Y (x10^5)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-4-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
Min

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\06.D

Date : 31-MAY-2024 15:06

Client ID:

Instrument: SV6.i

Sample Info: HS24051277-01

Purge Volume: 1000.0

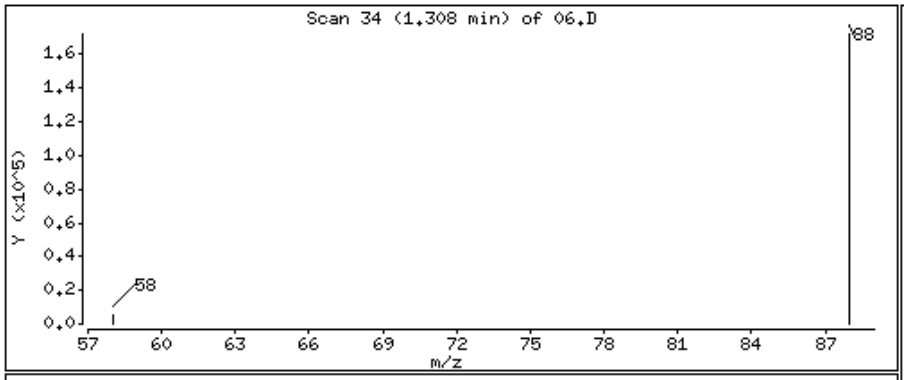
Operator: LG

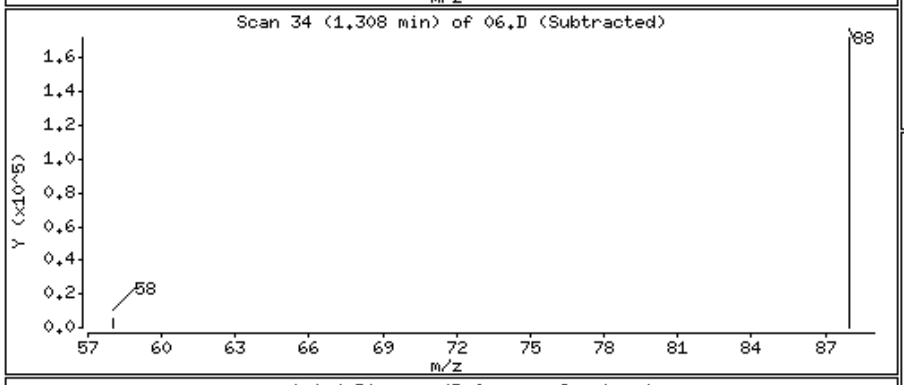
Column phase: RTX-5SIL MS

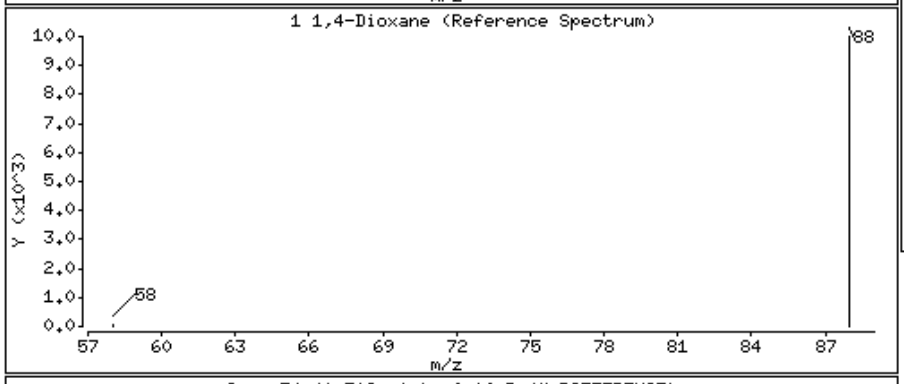
Column diameter: 0.28

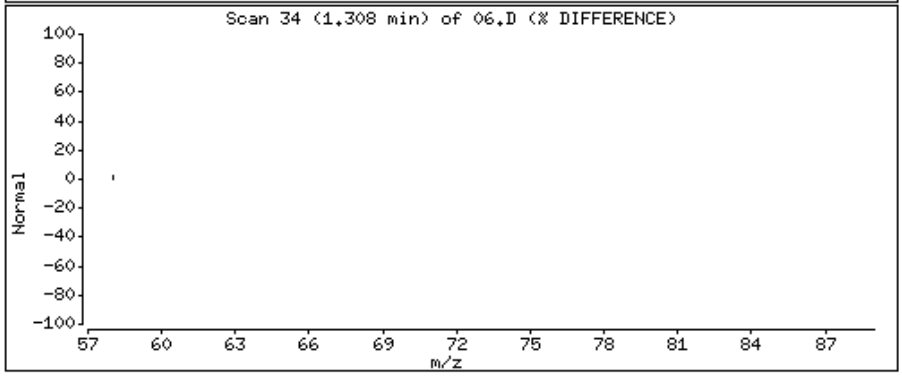
1 1,4-Dioxane

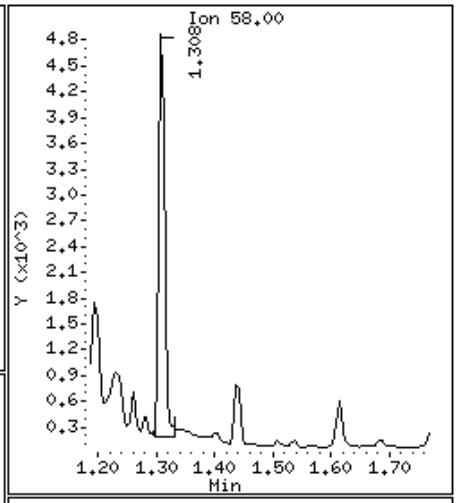
Concentration: 0.3462 ug/L

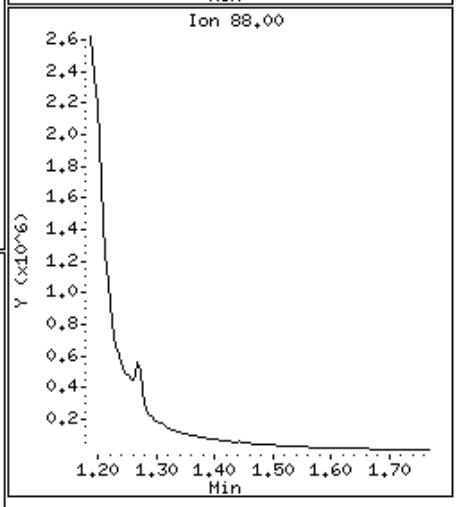










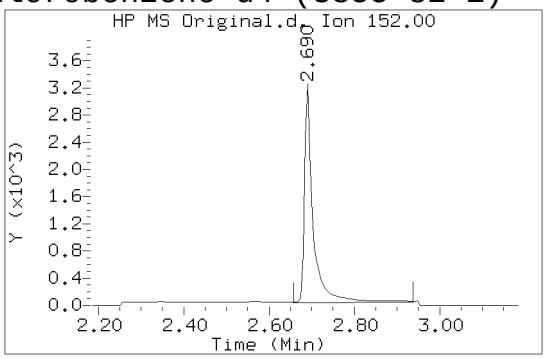


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\06.D
Inj Date : 31-MAY-2024 15:06
InstruID : SV6.i
LabSampID : HS24051277-01

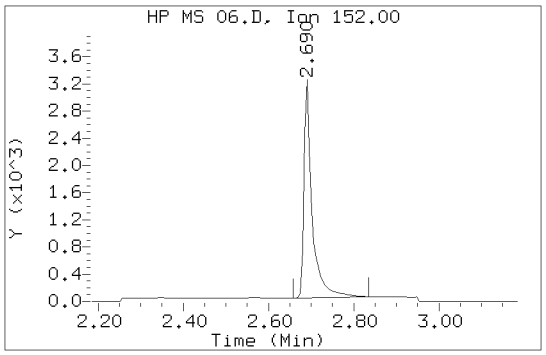
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

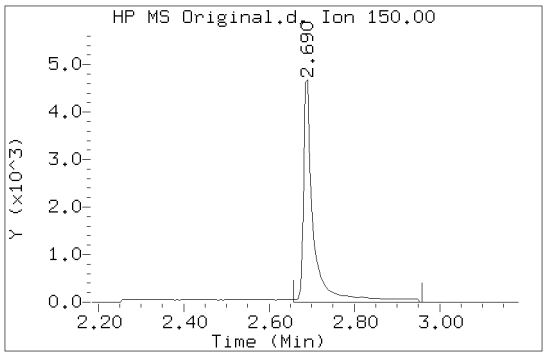
BEFORE
MASS
152
AREA
4585
HEIGHT
3226
31-May-2024
15:20
ALSHS
Server



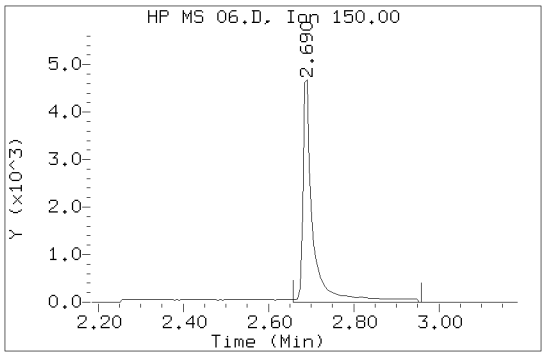
AFTER
MASS
152
AREA
4263
HEIGHT
3209
21-Jun-2024
12:52



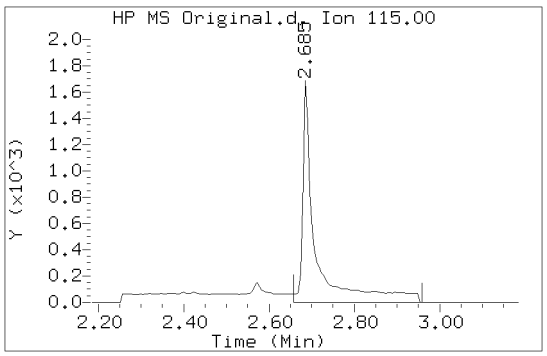
BEFORE
MASS
150
AREA
7839
HEIGHT
4676
31-May-2024
15:20
ALSHS
Server



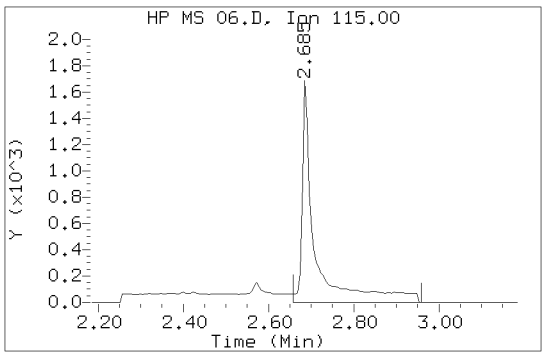
AFTER
MASS
150
AREA
7839
HEIGHT
4676
21-Jun-2024
12:52



BEFORE
MASS
115
AREA
3478
HEIGHT
1686
31-May-2024
15:20
ALSHS
Server



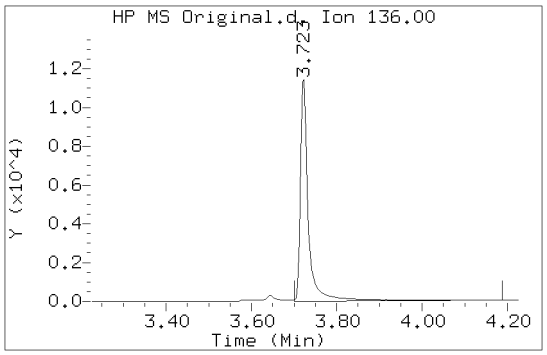
AFTER
MASS
115
AREA
3478
HEIGHT
1686
21-Jun-2024
12:52



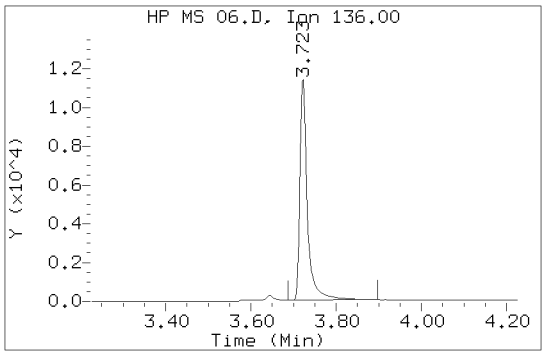
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
14943
HEIGHT
11418
31-May-2024
15:20
ALSHS
Server



AFTER
MASS
136
AREA
13986
HEIGHT
11371
21-Jun-2024
12:52

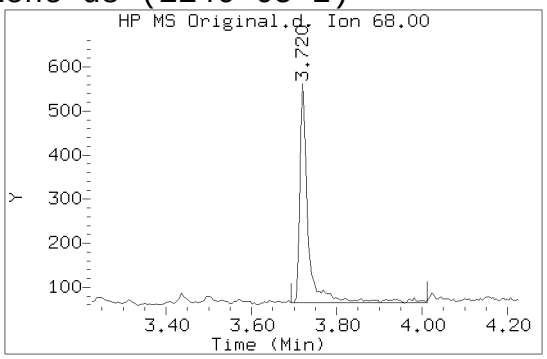


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Inj Date : 31-MAY-2024 15:06
InstruID : SV6.i
LabSampID : HS24051277-01

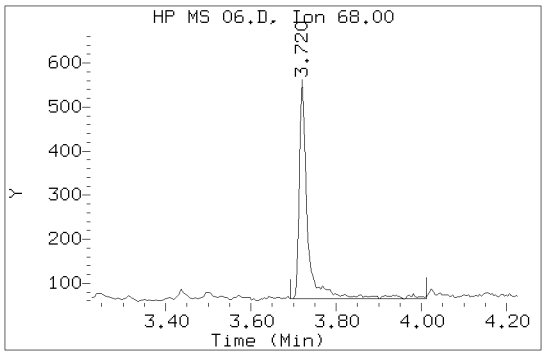
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
679
HEIGHT
497
31-May-2024
15:20
ALSHS
Server



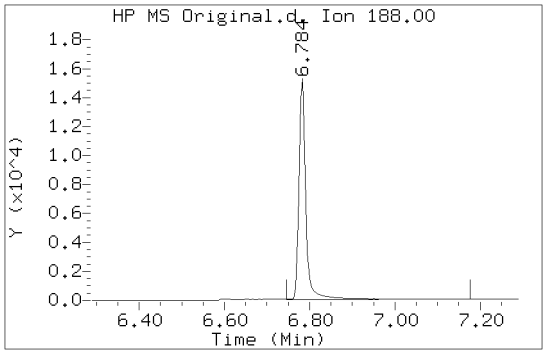
AFTER
MASS
68
AREA
679
HEIGHT
497
21-Jun-2024
12:52



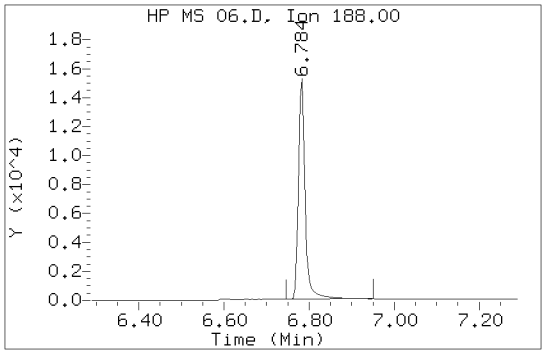
Phenanthrene-d10 (1517-22-2)

Reason Code:

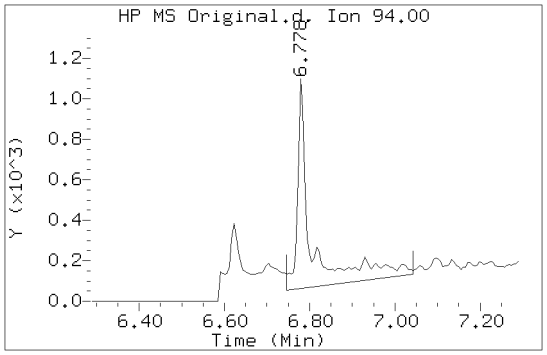
BEFORE
MASS
188
AREA
17946
HEIGHT
15280
31-May-2024
15:20
ALSHS
Server



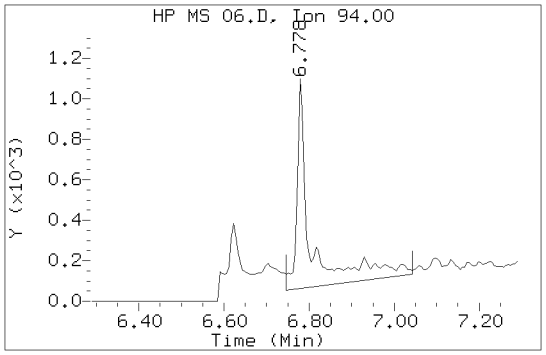
AFTER
MASS
188
AREA
16784
HEIGHT
15230
21-Jun-2024
12:52



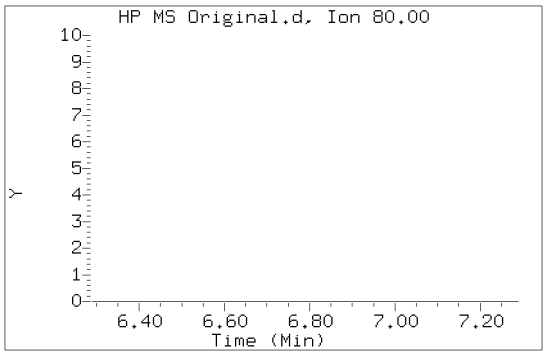
BEFORE
MASS
94
AREA
2289
HEIGHT
1035
31-May-2024
15:20
ALSHS
Server



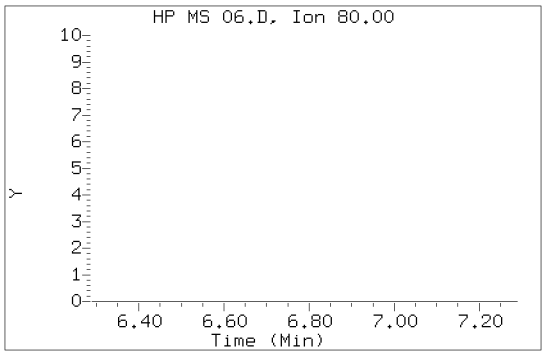
AFTER
MASS
94
AREA
2289
HEIGHT
1035
21-Jun-2024
12:52



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
15:20
ALSHS
Server



AFTER
MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
12:52



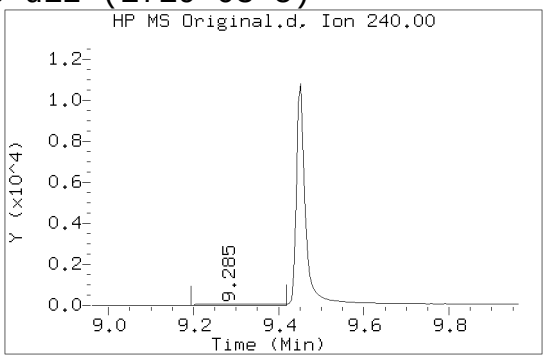
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Inj Date : 31-MAY-2024 15:06
InstruID : SV6.i
LabSampID : HS24051277-01

Chrysene-d12 (1719-03-5)

Reason Code:

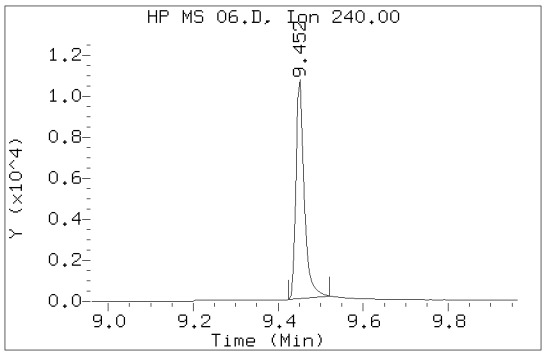
BEFORE

MASS
240
AREA
806
HEIGHT
67
31-May-2024
15:20
ALSHS
Server



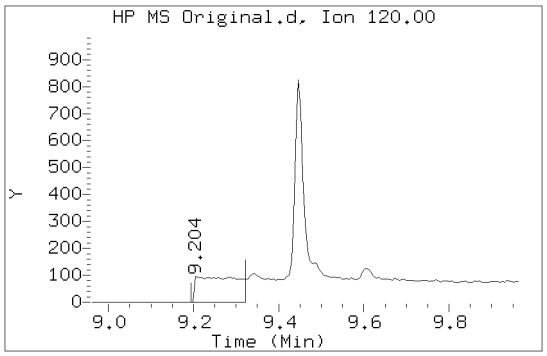
AFTER

MASS
240
AREA
14591
HEIGHT
10665
21-Jun-2024
12:52



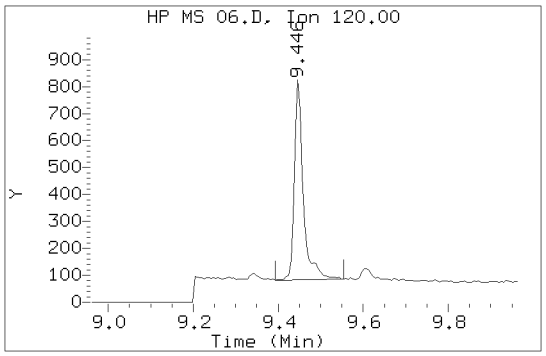
BEFORE

MASS
120
AREA
661
HEIGHT
96
31-May-2024
15:20
ALSHS
Server



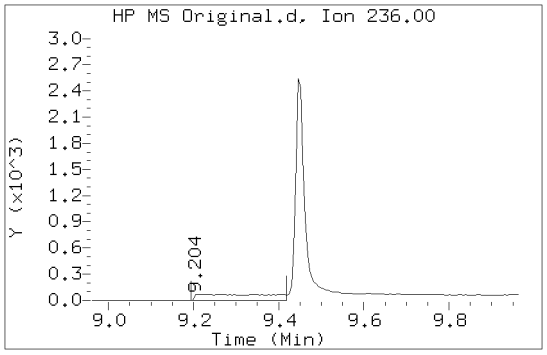
AFTER

MASS
120
AREA
1089
HEIGHT
741
21-Jun-2024
12:52



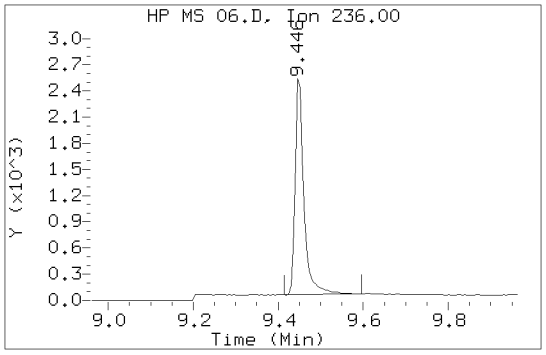
BEFORE

MASS
236
AREA
839
HEIGHT
68
31-May-2024
15:20
ALSHS
Server



AFTER

MASS
236
AREA
3584
HEIGHT
2474
21-Jun-2024
12:52

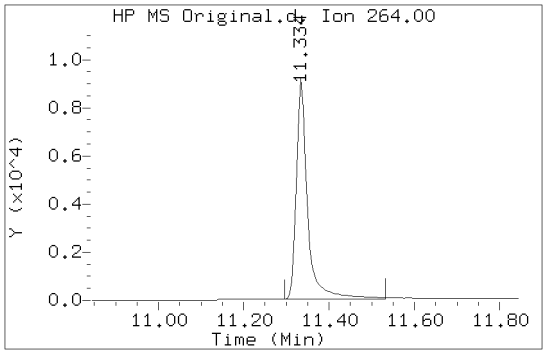


Perylene-d12 (1520-96-3)

Reason Code:

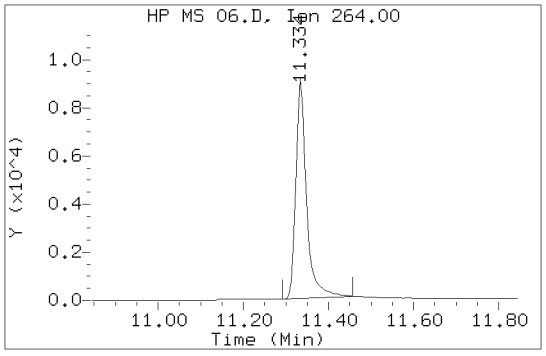
BEFORE

MASS
264
AREA
16727
HEIGHT
9156
31-May-2024
15:20
ALSHS
Server



AFTER

MASS
264
AREA
15819
HEIGHT
9128
21-Jun-2024
12:52

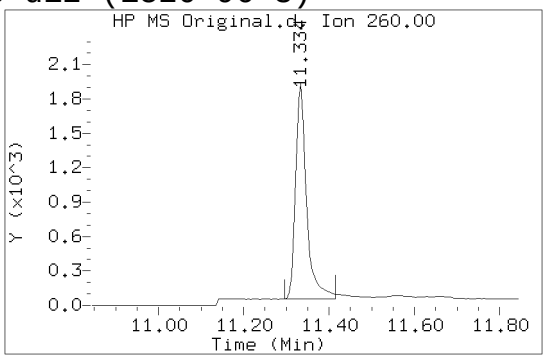


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Inj Date : 31-MAY-2024 15:06
InstruID : SV6.i
LabSampID : HS24051277-01

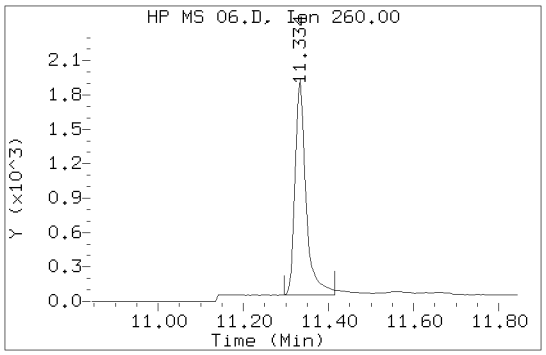
Perylene-d12 (1520-96-3)

Reason Code:

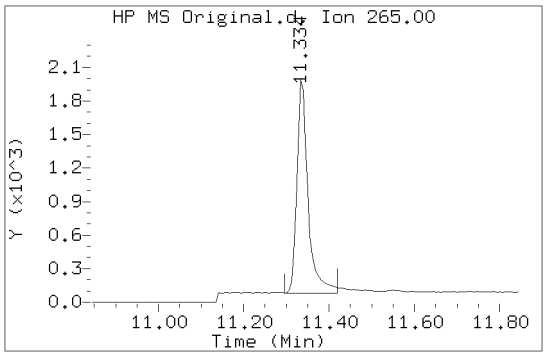
BEFORE
MASS
260
AREA
3334
HEIGHT
1875
31-May-2024
15:20
ALSHS
Server



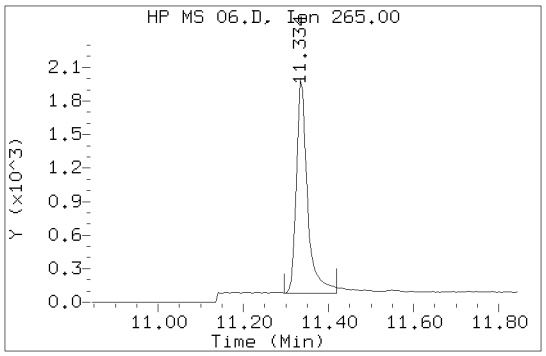
AFTER
MASS
260
AREA
3334
HEIGHT
1875
21-Jun-2024
12:52



BEFORE
MASS
265
AREA
3462
HEIGHT
1907
31-May-2024
15:20
ALSHS
Server



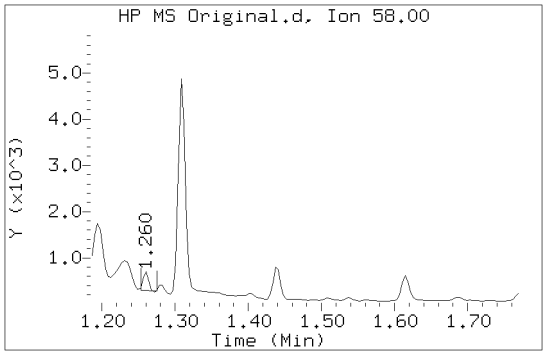
AFTER
MASS
265
AREA
3462
HEIGHT
1907
21-Jun-2024
12:52



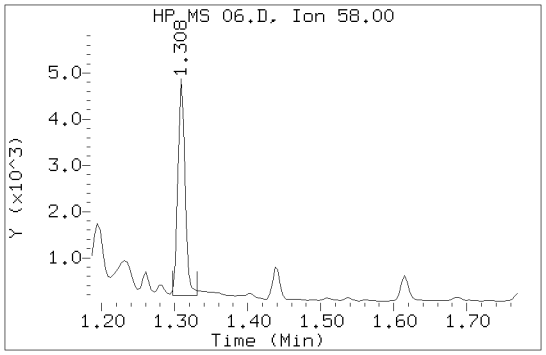
1,4-Dioxane ()

Reason Code:

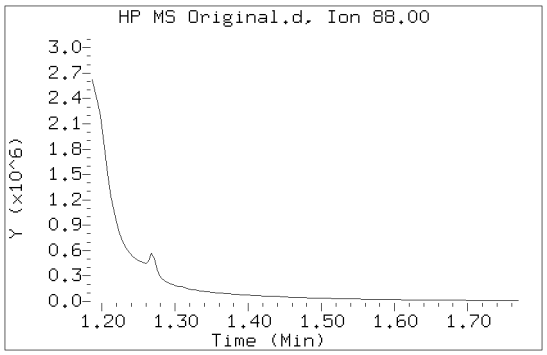
BEFORE
MASS
58
AREA
215
HEIGHT
407
31-May-2024
15:20
ALSHS
Server



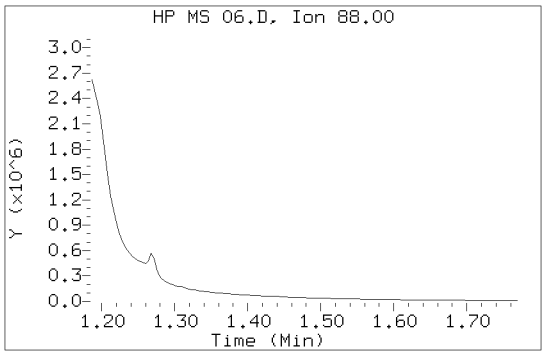
AFTER
MASS
58
AREA
3161
HEIGHT
4682
21-Jun-2024
12:52



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
15:20
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
21-Jun-2024
12:52



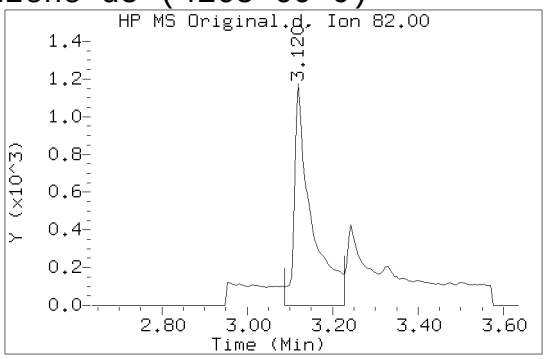
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\06.D
Inj Date : 31-MAY-2024 15:06
InstruID : SV6.i
LabSampID : HS24051277-01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

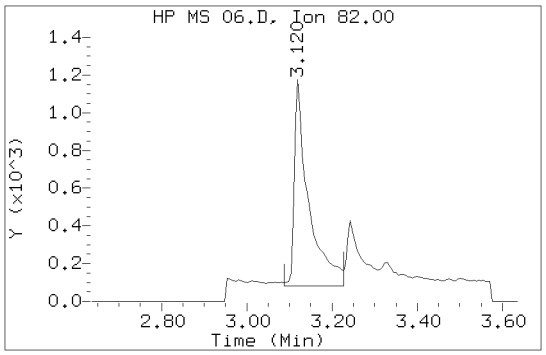
BEFORE

MASS
82
AREA
3278
HEIGHT
1175
31-May-2024
15:20
ALSHS
Server



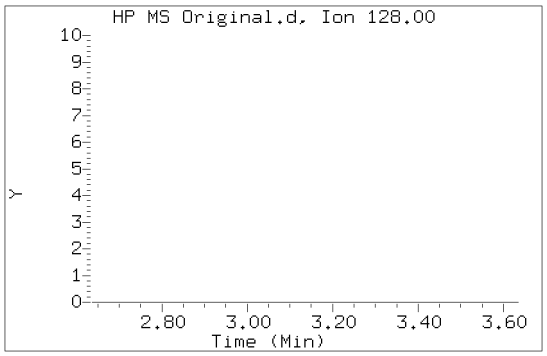
AFTER

MASS
82
AREA
2565
HEIGHT
1093
21-Jun-2024
12:52



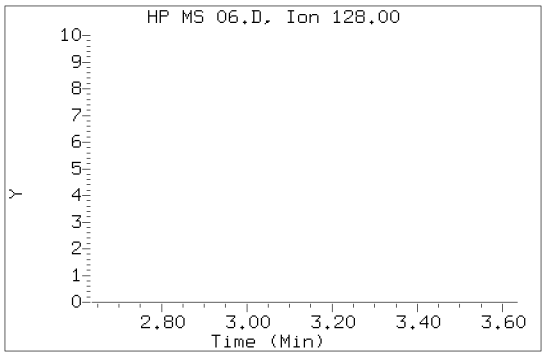
BEFORE

MASS
128
AREA
0
HEIGHT
0
31-May-2024
15:20
ALSHS
Server



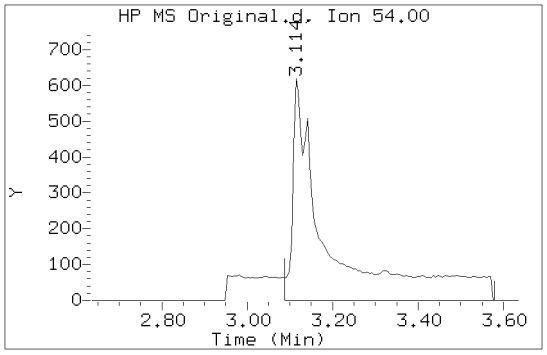
AFTER

MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
12:52



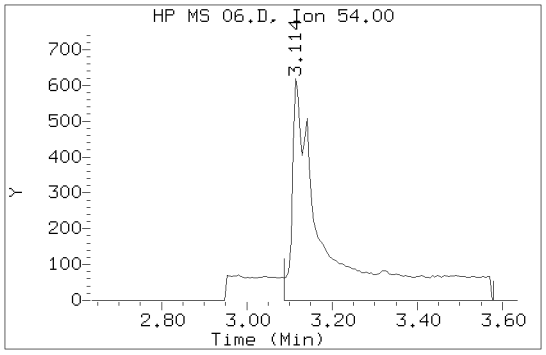
BEFORE

MASS
54
AREA
3528
HEIGHT
619
31-May-2024
15:20
ALSHS
Server



AFTER

MASS
54
AREA
3528
HEIGHT
619
21-Jun-2024
12:52

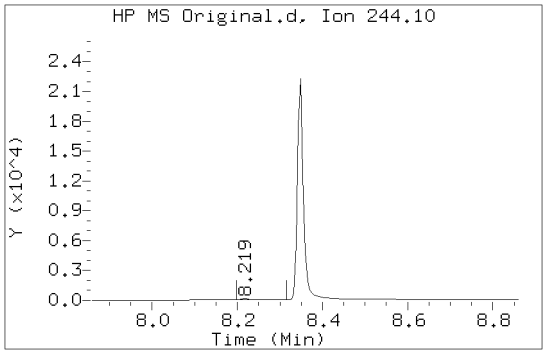


4-Terphenyl-d14 (1718-51-0)

Reason Code:

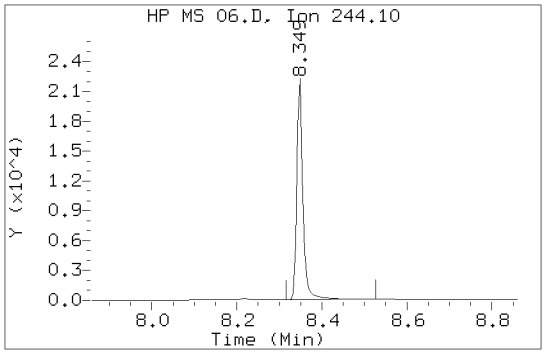
BEFORE

MASS
244.1
AREA
256
HEIGHT
173
31-May-2024
15:20
ALSHS
Server



AFTER

MASS
244.1
AREA
22335
HEIGHT
22201
21-Jun-2024
12:52

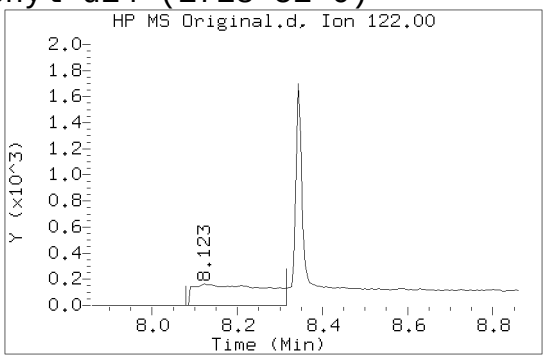


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Inj Date : 31-MAY-2024 15:06
InstruID : SV6.i
LabSampID : HS24051277-01

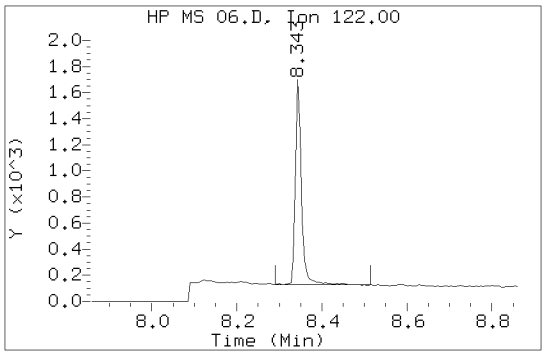
4-Terphenyl-d14 (1718-51-0)

Reason Code:

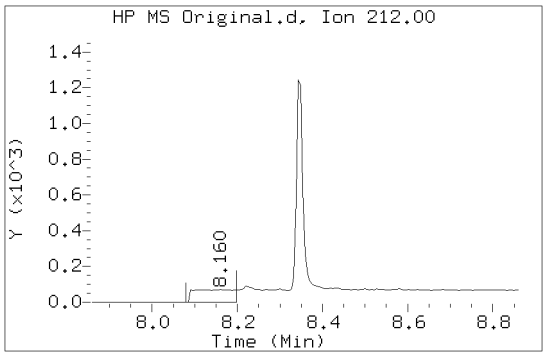
BEFORE
MASS
122
AREA
1972
HEIGHT
165
31-May-2024
15:20
ALSHS
Server



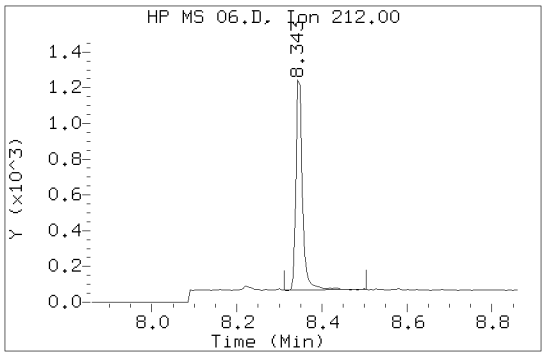
AFTER
MASS
122
AREA
1600
HEIGHT
1572
21-Jun-2024
12:52



BEFORE
MASS
212
AREA
458
HEIGHT
73
31-May-2024
15:20
ALSHS
Server



AFTER
MASS
212
AREA
1278
HEIGHT
1175
21-Jun-2024
12:52



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D Page 1
Report Date: 31-May-2024 16:13

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D
Lab Smp Id: MBLK-212606
Inj Date : 31-MAY-2024 15:23
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-212606
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 14:28 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.684	2.685	(1.000)	2302	0.10000	(aM)
* 45 Naphthalene-d8	136	3.723	3.723	(1.000)	7017	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.125	3.125	(0.839)	1284	0.06095	0.06095(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	4556	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4240	0.06088	0.06088(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	8316	0.10000	(M)
* 182 Chrysene-d12	240	9.451	9.456	(1.000)	7511	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.348	8.354	(0.883)	11295	0.07382	0.07382(M)
* 198 Perylene-d12	264	11.339	11.339	(1.000)	8087	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D

Date : 31-MAY-2024 15:23

Client ID:

Instrument: SV6.i

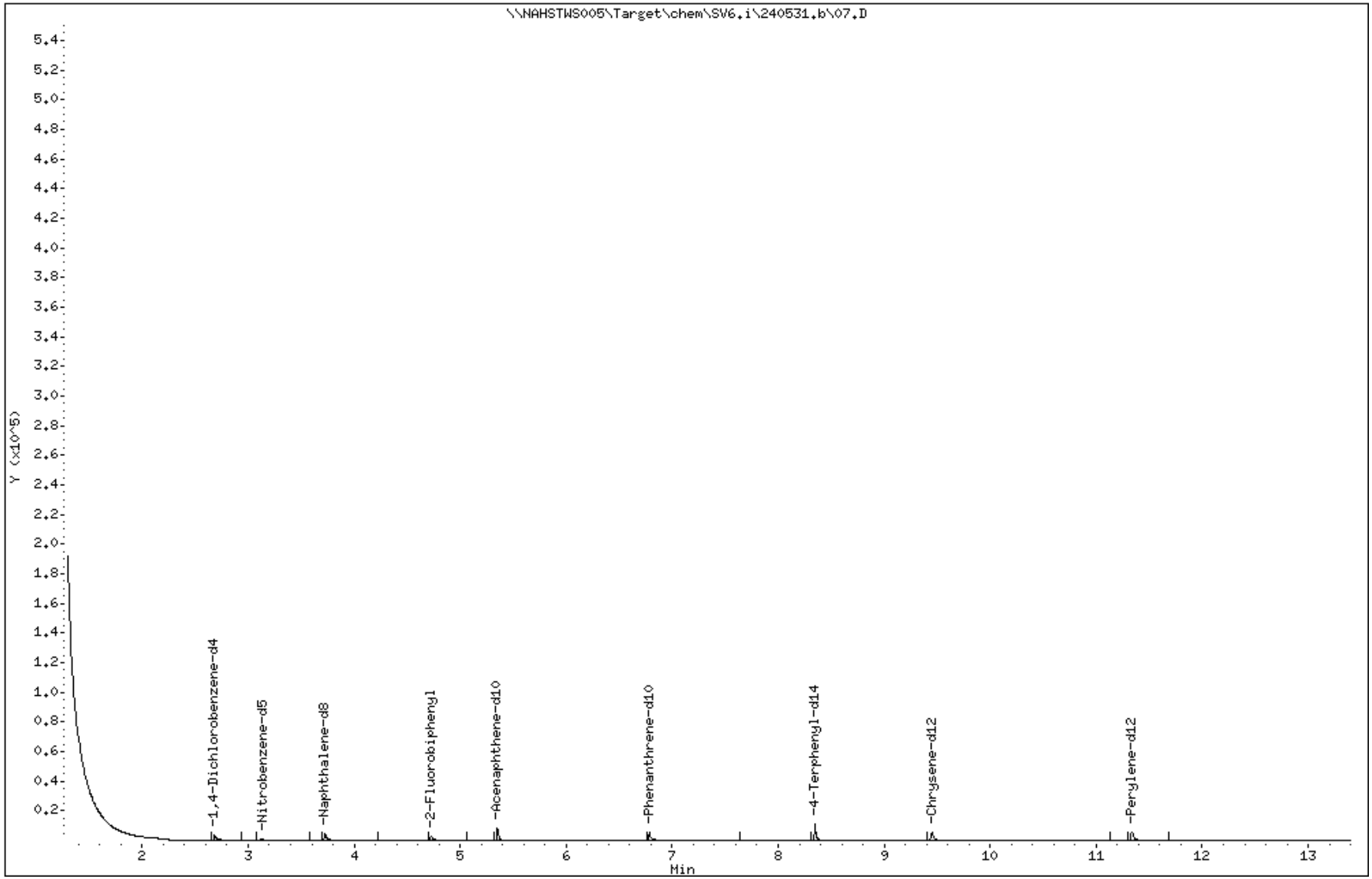
Sample Info: MBLK-212606

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

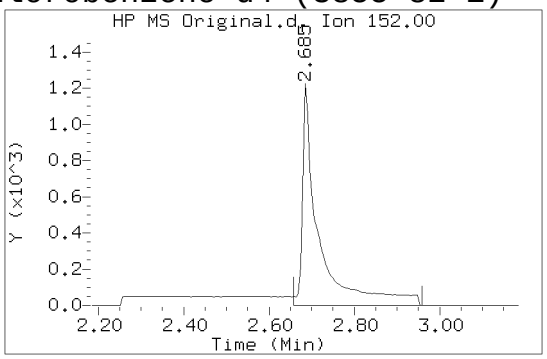


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Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

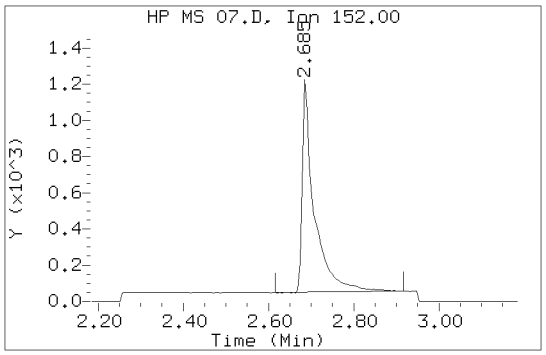
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

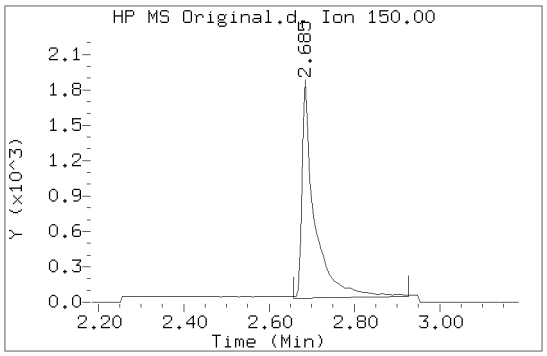
BEFORE
MASS
152
AREA
3241
HEIGHT
1225
31-May-2024
15:39
ALSHS
Server



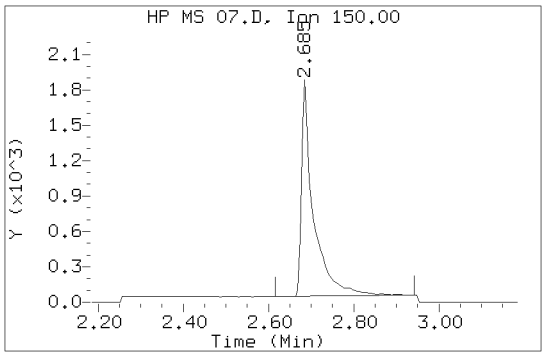
AFTER
MASS
152
AREA
2302
HEIGHT
1175
31-May-2024
16:13



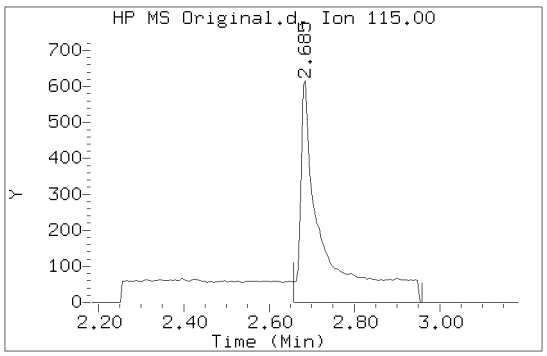
BEFORE
MASS
150
AREA
3811
HEIGHT
1847
31-May-2024
15:39
ALSHS
Server



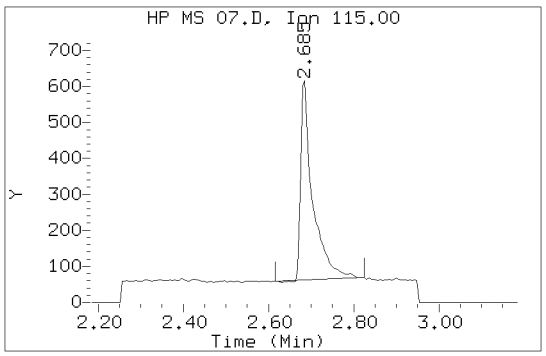
AFTER
MASS
150
AREA
3586
HEIGHT
1833
31-May-2024
16:13



BEFORE
MASS
115
AREA
2217
HEIGHT
616
31-May-2024
15:39
ALSHS
Server



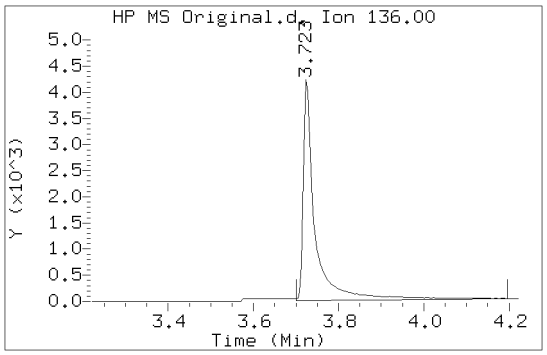
AFTER
MASS
115
AREA
1079
HEIGHT
554
31-May-2024
16:13



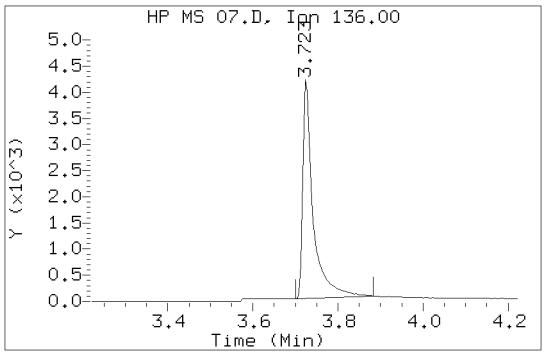
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8252
HEIGHT
4228
31-May-2024
15:39
ALSHS
Server



AFTER
MASS
136
AREA
7017
HEIGHT
4186
31-May-2024
16:13



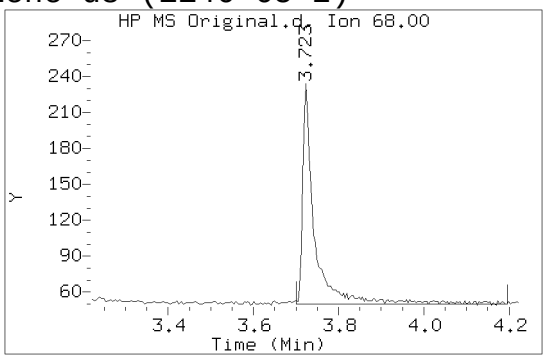
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D
Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

Naphthalene-d8 (1146-65-2)

Reason Code:

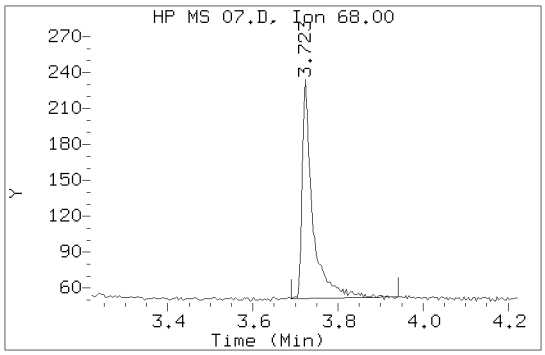
BEFORE

MASS
68
AREA
362
HEIGHT
184
31-May-2024
15:39
ALSHS
Server



AFTER

MASS
68
AREA
310
HEIGHT
182
31-May-2024
16:13

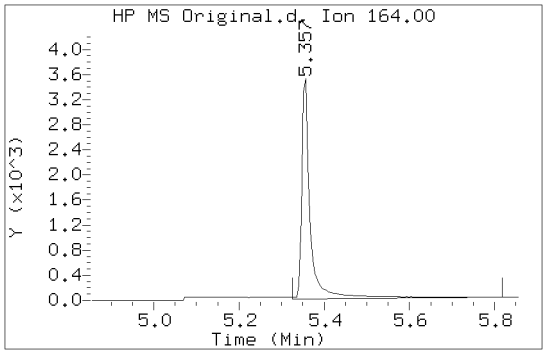


Acenaphthene-d10 (15067-26-2)

Reason Code:

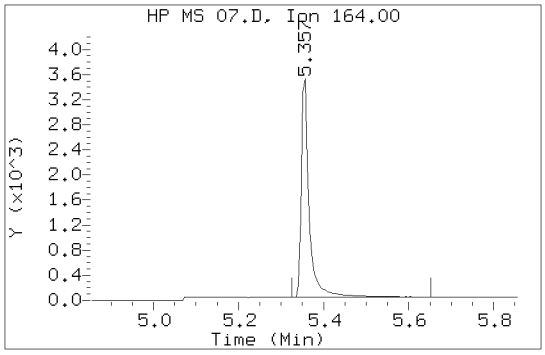
BEFORE

MASS
164
AREA
5124
HEIGHT
3517
31-May-2024
15:39
ALSHS
Server



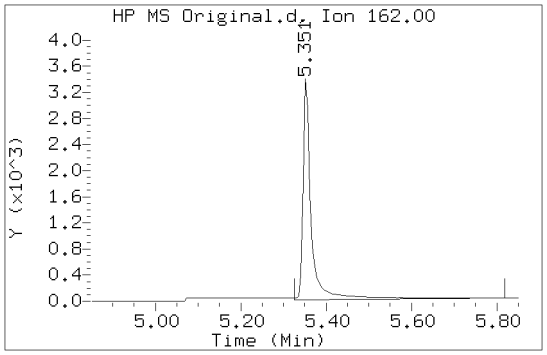
AFTER

MASS
164
AREA
4556
HEIGHT
3488
31-May-2024
16:13



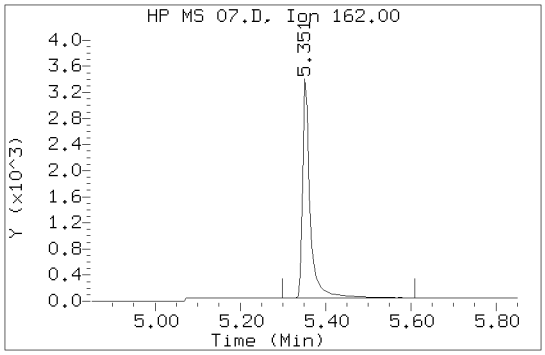
BEFORE

MASS
162
AREA
4752
HEIGHT
3388
31-May-2024
15:39
ALSHS
Server



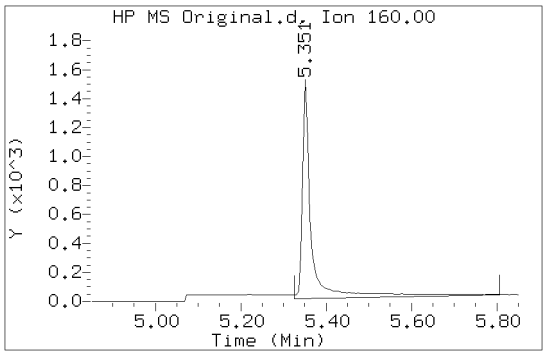
AFTER

MASS
162
AREA
4185
HEIGHT
3357
31-May-2024
16:13



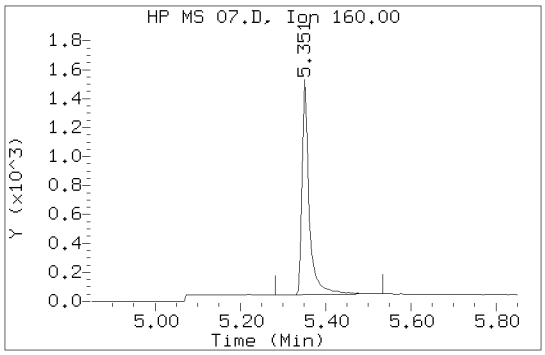
BEFORE

MASS
160
AREA
2287
HEIGHT
1513
31-May-2024
15:39
ALSHS
Server



AFTER

MASS
160
AREA
1764
HEIGHT
1484
31-May-2024
16:13

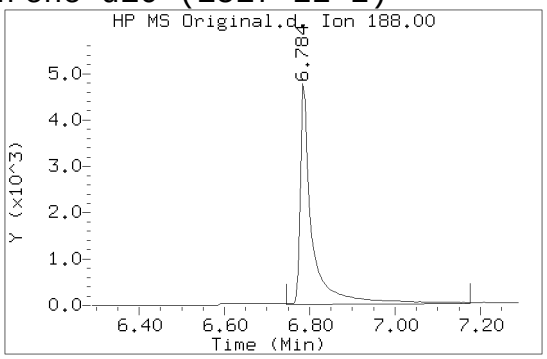


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Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

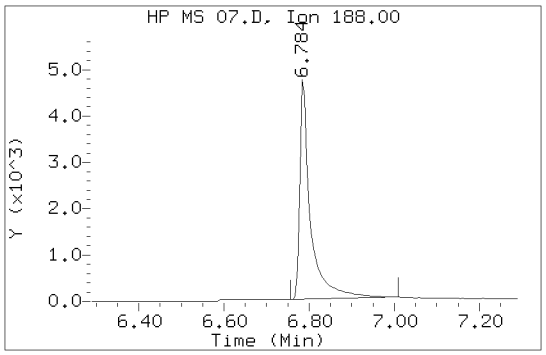
Phenanthrene-d10 (1517-22-2)

Reason Code:

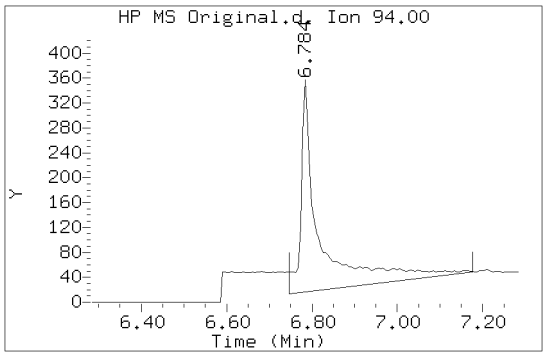
BEFORE
MASS
188
AREA
9304
HEIGHT
4766
31-May-2024
15:39
ALSHS
Server



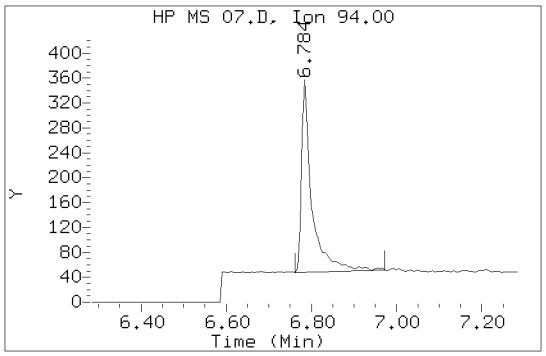
AFTER
MASS
188
AREA
8316
HEIGHT
4735
31-May-2024
16:13



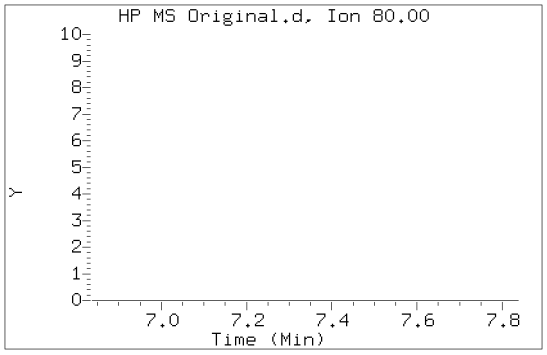
BEFORE
MASS
94
AREA
1030
HEIGHT
340
31-May-2024
15:39
ALSHS
Server



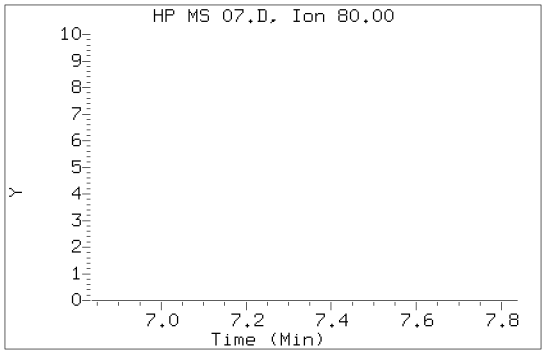
AFTER
MASS
94
AREA
525
HEIGHT
308
31-May-2024
16:13



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
15:39
ALSHS
Server



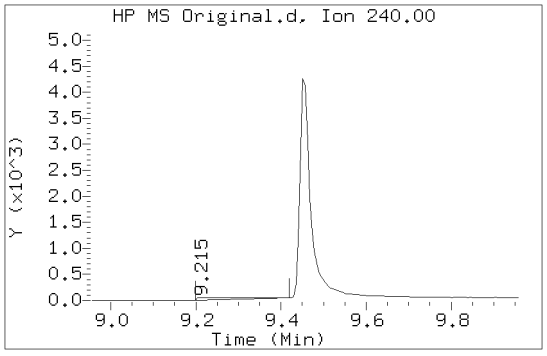
AFTER
MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:13



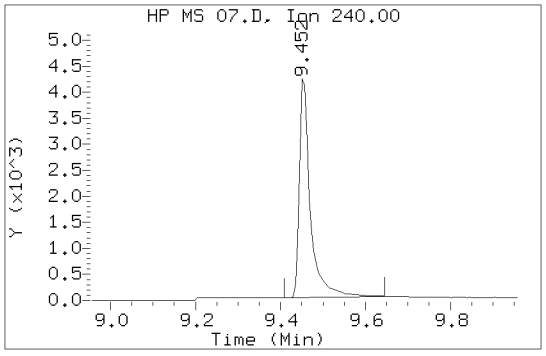
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
293
HEIGHT
43
31-May-2024
15:39
ALSHS
Server



AFTER
MASS
240
AREA
7511
HEIGHT
4208
31-May-2024
16:13

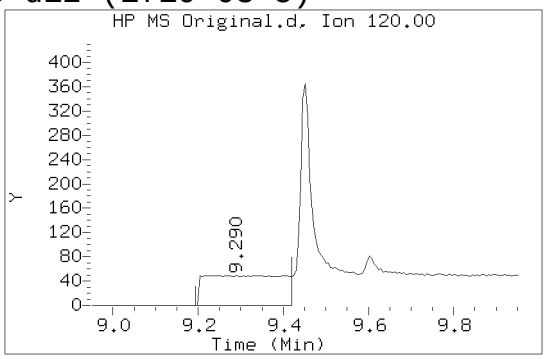


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D
Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

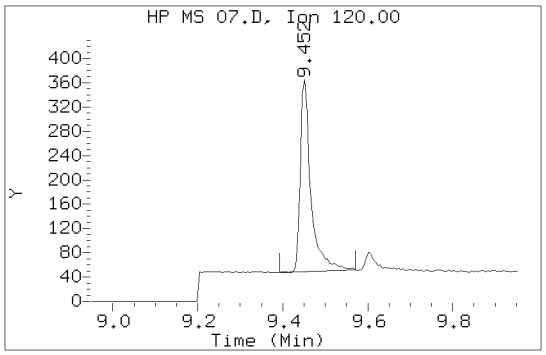
Chrysene-d12 (1719-03-5)

Reason Code:

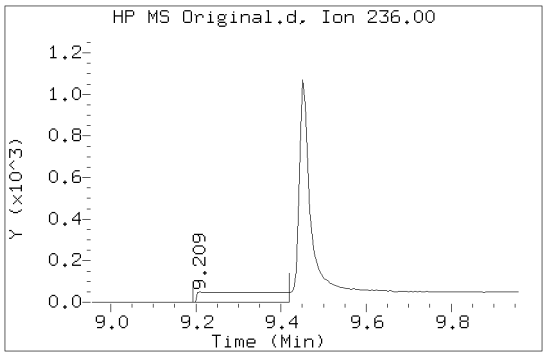
BEFORE
MASS
120
AREA
642
HEIGHT
50
31-May-2024
15:39
ALSHS
Server



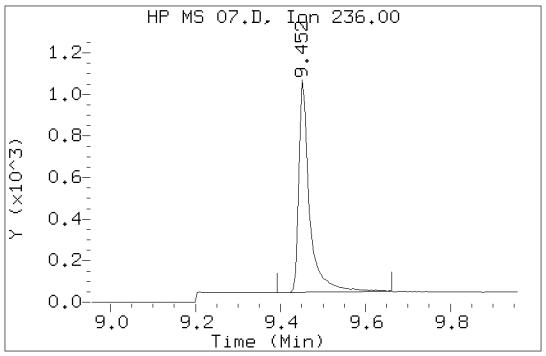
AFTER
MASS
120
AREA
540
HEIGHT
315
31-May-2024
16:13



BEFORE
MASS
236
AREA
613
HEIGHT
49
31-May-2024
15:39
ALSHS
Server



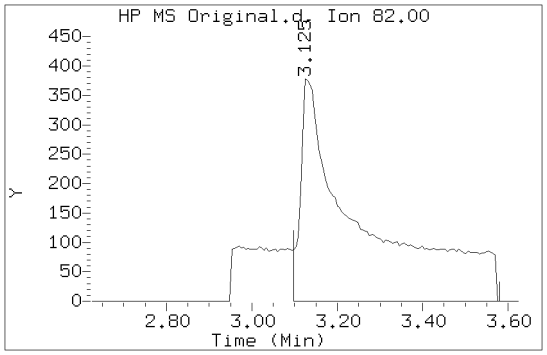
AFTER
MASS
236
AREA
1771
HEIGHT
1021
31-May-2024
16:13



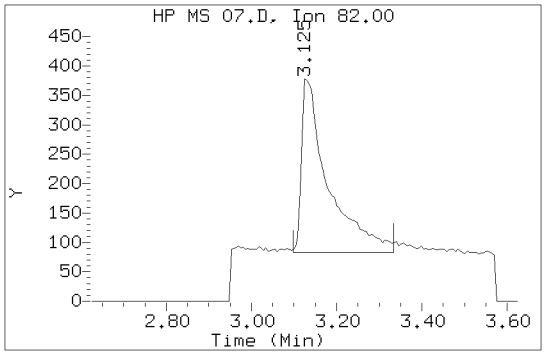
Nitrobenzene-d5 (4165-60-0)

Reason Code:

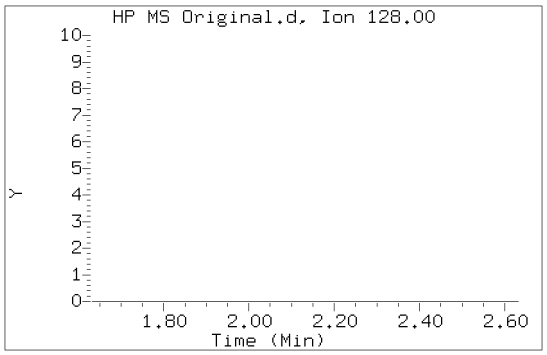
BEFORE
MASS
82
AREA
3717
HEIGHT
378
31-May-2024
15:39
ALSHS
Server



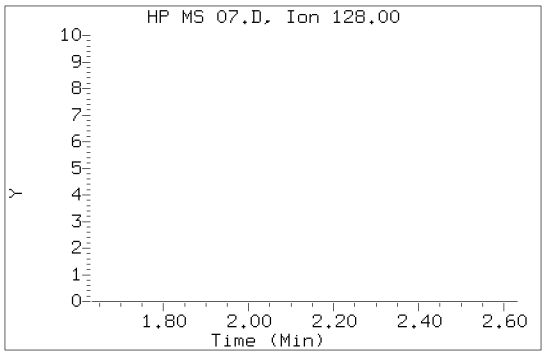
AFTER
MASS
82
AREA
1284
HEIGHT
295
31-May-2024
16:13



BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
15:39
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:13



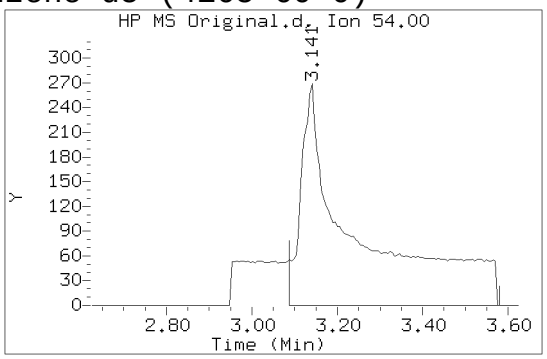
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D
Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

Nitrobenzene-d5 (4165-60-0)

Reason Code:

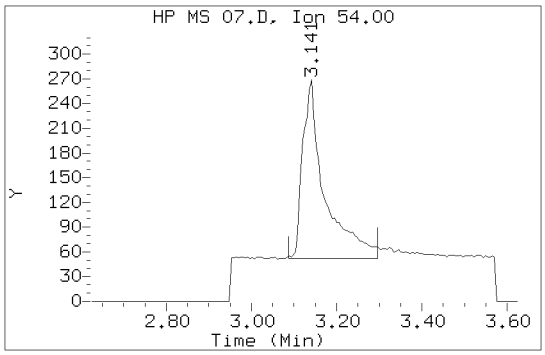
BEFORE

MASS
54
AREA
2384
HEIGHT
269
31-May-2024
15:39
ALSHS
Server



AFTER

MASS
54
AREA
779
HEIGHT
217
31-May-2024
16:13

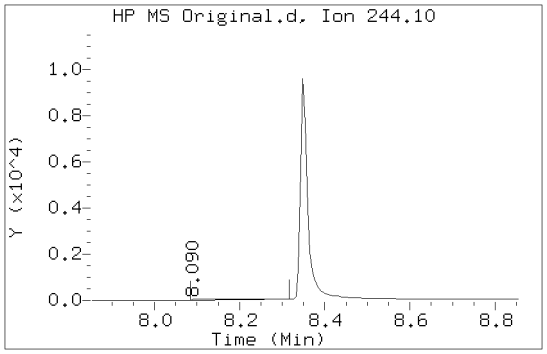


4-Terphenyl-d14 (1718-51-0)

Reason Code:

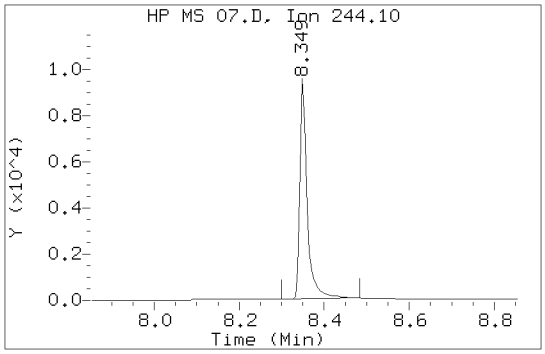
BEFORE

MASS
244.1
AREA
303
HEIGHT
44
31-May-2024
15:39
ALSHS
Server



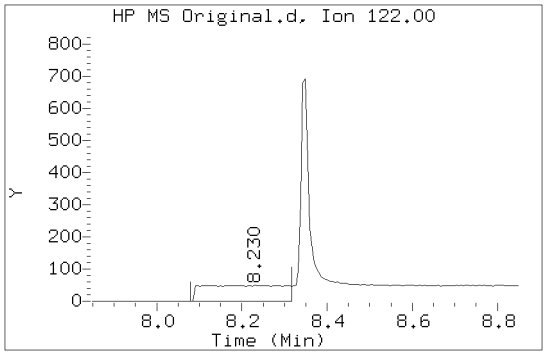
AFTER

MASS
244.1
AREA
11295
HEIGHT
9549
31-May-2024
16:13



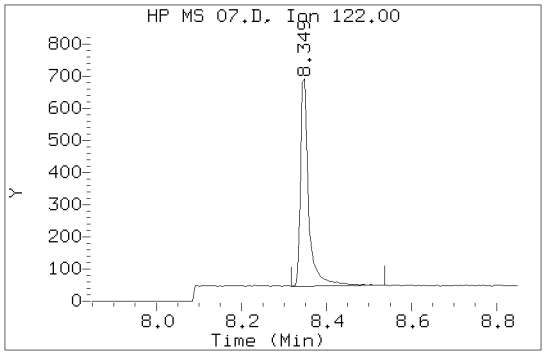
BEFORE

MASS
122
AREA
668
HEIGHT
50
31-May-2024
15:39
ALSHS
Server



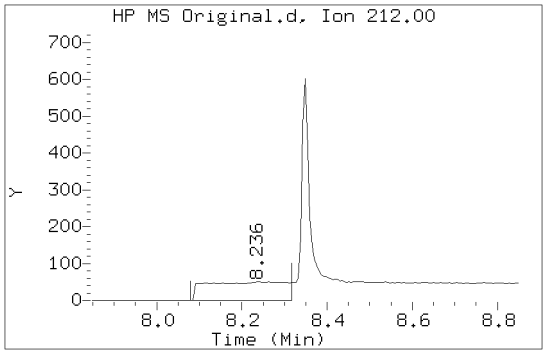
AFTER

MASS
122
AREA
849
HEIGHT
644
31-May-2024
16:13



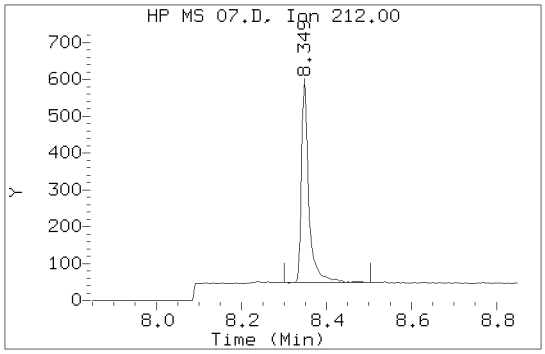
BEFORE

MASS
212
AREA
654
HEIGHT
50
31-May-2024
15:39
ALSHS
Server



AFTER

MASS
212
AREA
657
HEIGHT
554
31-May-2024
16:13

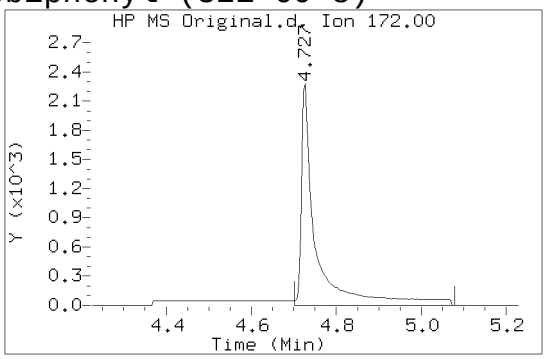


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\07.D
Inj Date : 31-MAY-2024 15:23
InstruID : SV6.i
LabSampID : MBLK-212606

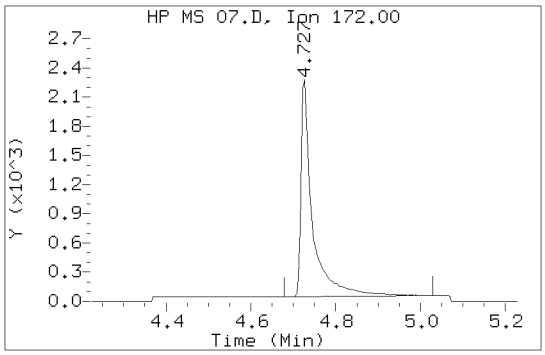
2-Fluorobiphenyl (321-60-8)

Reason Code:

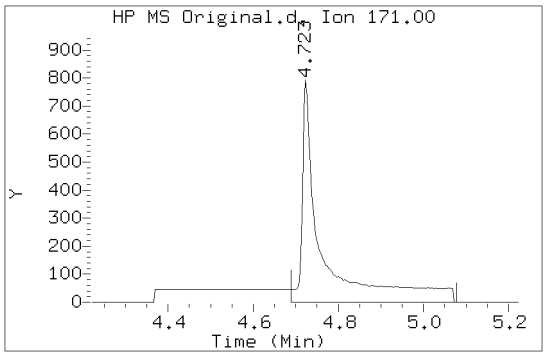
BEFORE
MASS
172
AREA
5457
HEIGHT
2279
31-May-2024
15:39
ALSHS
Server



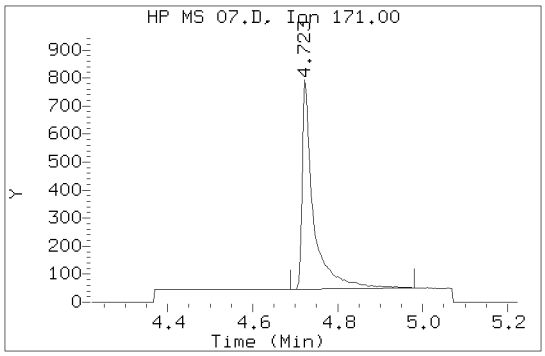
AFTER
MASS
172
AREA
4240
HEIGHT
2230
31-May-2024
16:13



BEFORE
MASS
171
AREA
2523
HEIGHT
793
31-May-2024
15:39
ALSHS
Server



AFTER
MASS
171
AREA
1408
HEIGHT
747
31-May-2024
16:13



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D Page 1
Report Date: 31-May-2024 16:14

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Lab Smp Id: LCS-212606
Inj Date : 31-MAY-2024 15:41
Operator : LG Inst ID: SV6.i
Smp Info : LCS-212606
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 14:28 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.685	2.685	(1.000)	2607	0.10000	(aM)
* 45 Naphthalene-d8	136	3.723	3.723	(1.000)	8485	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.125	3.125	(0.839)	1890	0.07420	0.07420(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	5108	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	5114	0.06549	0.06549(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	9991	0.10000	(M)
* 182 Chrysene-d12	240	9.451	9.456	(1.000)	8937	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.348	8.354	(0.883)	12727	0.06990	0.06990(M)
* 198 Perylene-d12	264	11.339	11.339	(1.000)	9796	0.10000	
1 1,4-Dioxane	58	1.275	1.275	(0.475)	392	0.07020	0.07020(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D

Date : 31-MAY-2024 15:41

Client ID:

Instrument: SV6.i

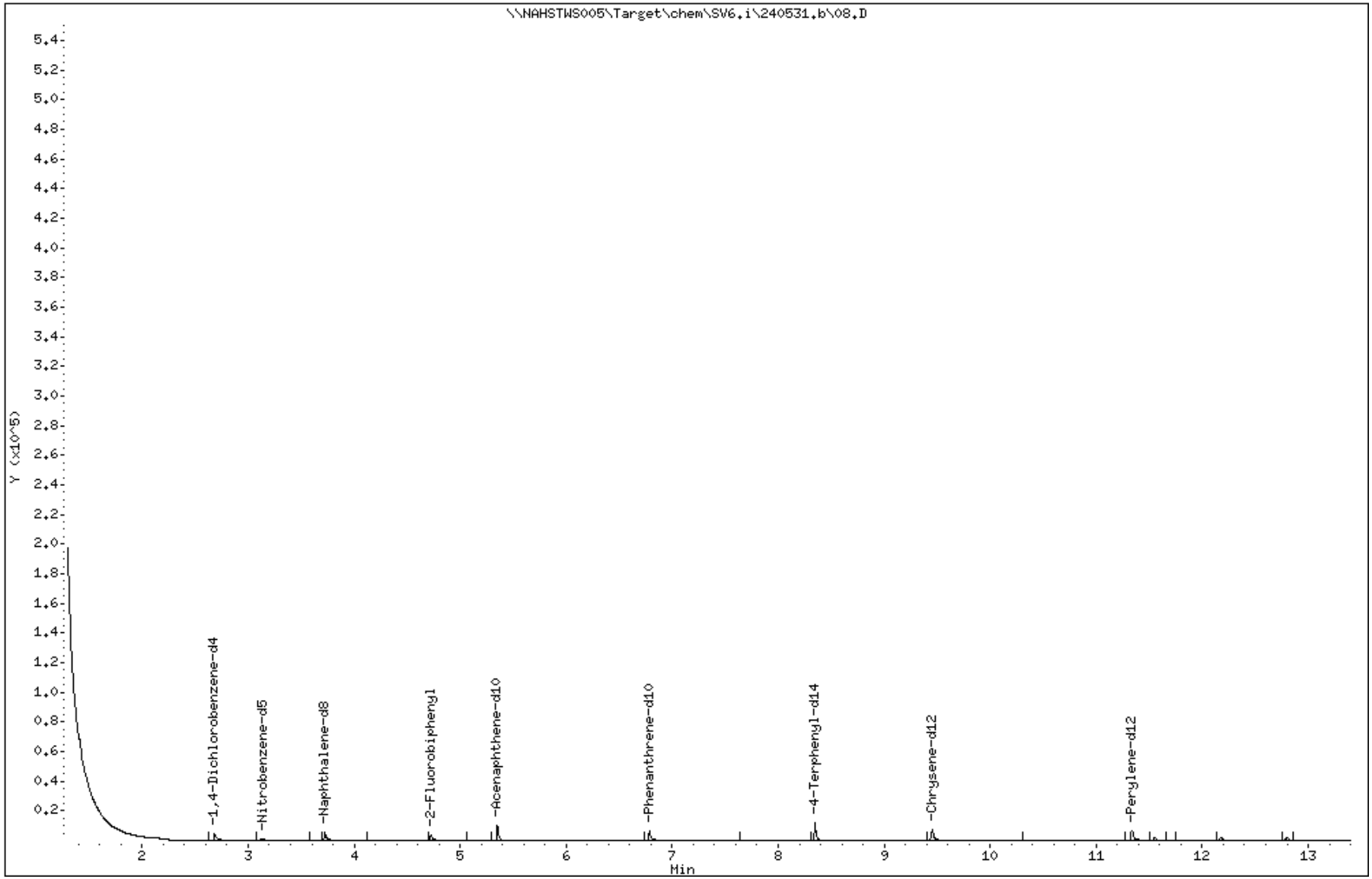
Sample Info: LCS-212606

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D Page 2

Date : 31-MAY-2024 15:41

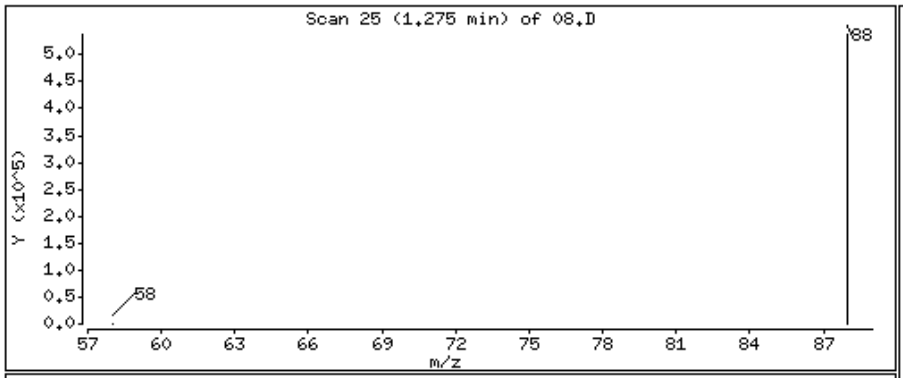
Client ID: Instrument: SV6.i

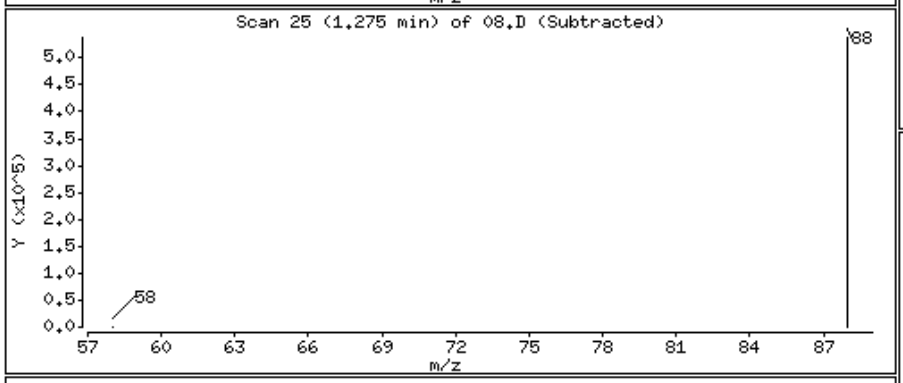
Sample Info: LCS-212606

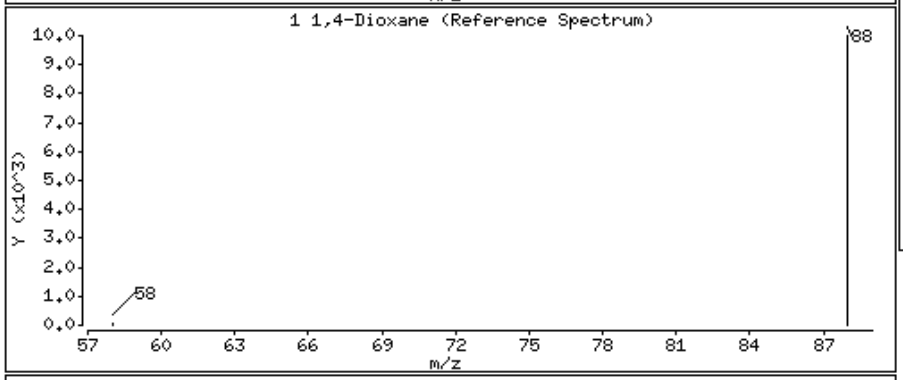
Purge Volume: 1000.0 Operator: LG

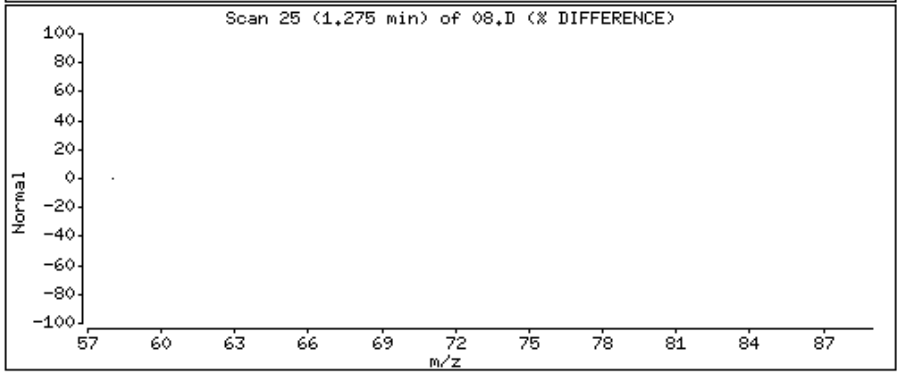
Column phase: RTX-5SIL MS Column diameter: 0.28

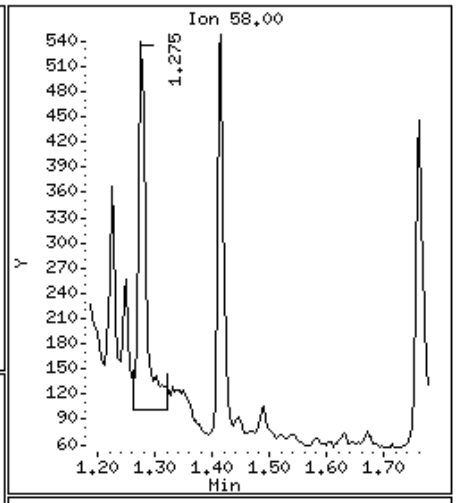
1 1,4-Dioxane Concentration: 0.07020 ug/L

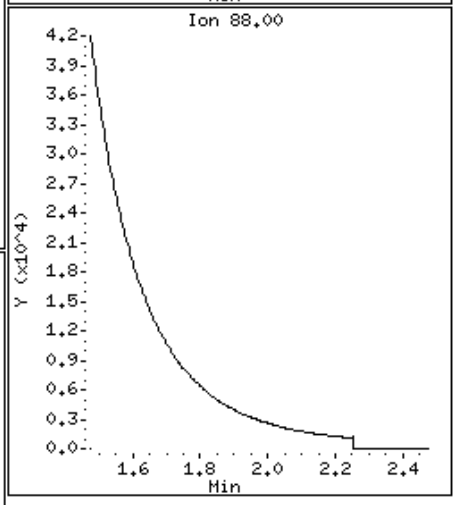










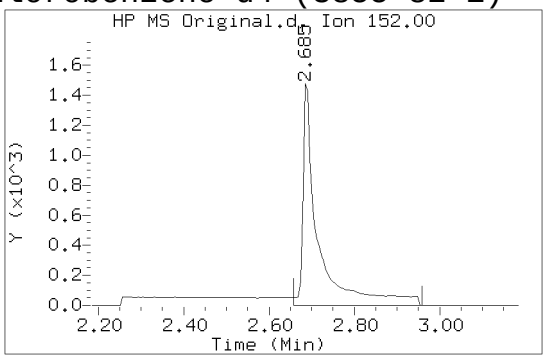


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Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

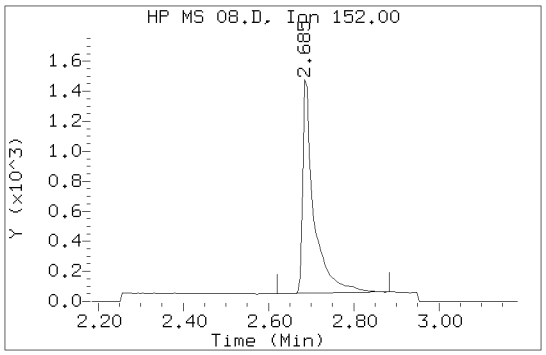
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

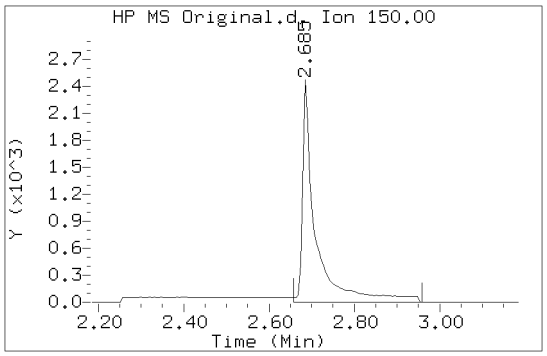
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31-May-2024
15:56
ALSHS
Server



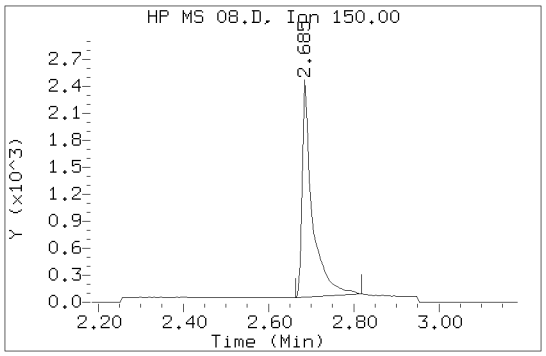
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AREA
2607
HEIGHT
1422
31-May-2024
16:14



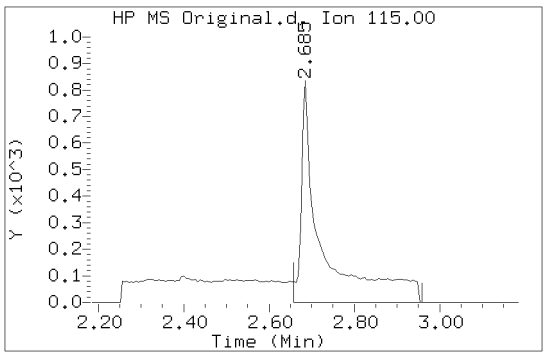
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AREA
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HEIGHT
2470
31-May-2024
15:56
ALSHS
Server



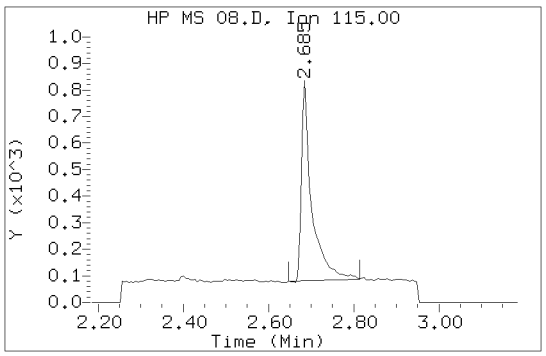
AFTER
MASS
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AREA
4005
HEIGHT
2413
31-May-2024
16:14



BEFORE
MASS
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AREA
2759
HEIGHT
835
31-May-2024
15:56
ALSHS
Server



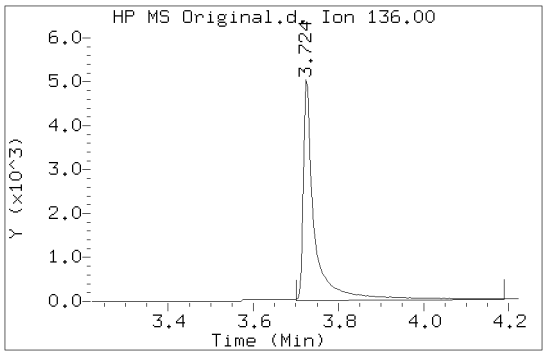
AFTER
MASS
115
AREA
1262
HEIGHT
753
31-May-2024
16:14



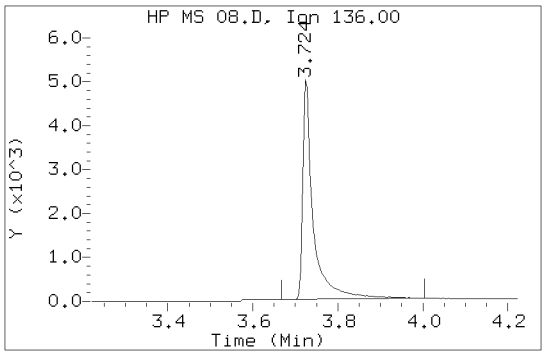
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9471
HEIGHT
5034
31-May-2024
15:56
ALSHS
Server



AFTER
MASS
136
AREA
8485
HEIGHT
4994
31-May-2024
16:14



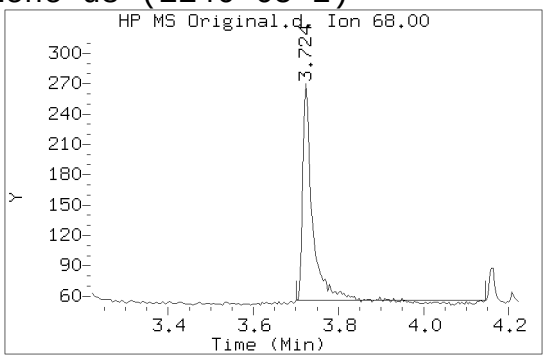
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Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

Naphthalene-d8 (1146-65-2)

Reason Code:

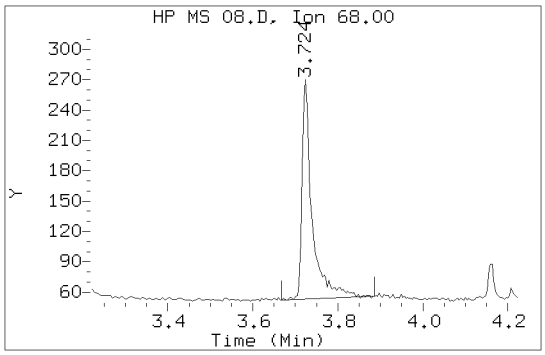
BEFORE

MASS
68
AREA
310
HEIGHT
214
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
68
AREA
360
HEIGHT
216
31-May-2024
16:14

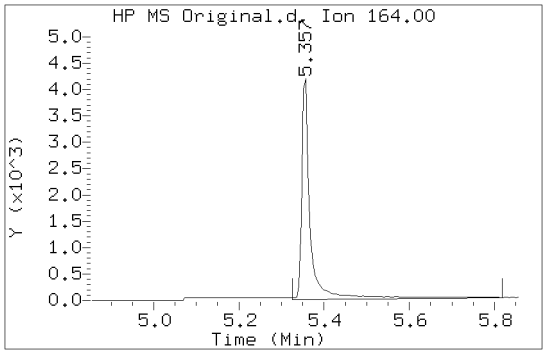


Acenaphthene-d10 (15067-26-2)

Reason Code:

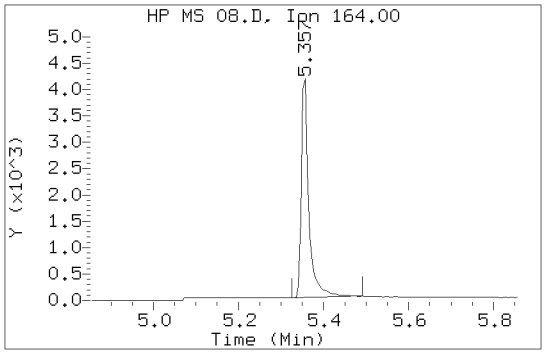
BEFORE

MASS
164
AREA
5928
HEIGHT
4184
31-May-2024
15:56
ALSHS
Server



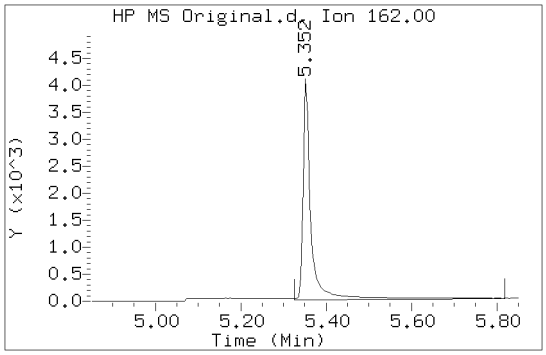
AFTER

MASS
164
AREA
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HEIGHT
4147
31-May-2024
16:14



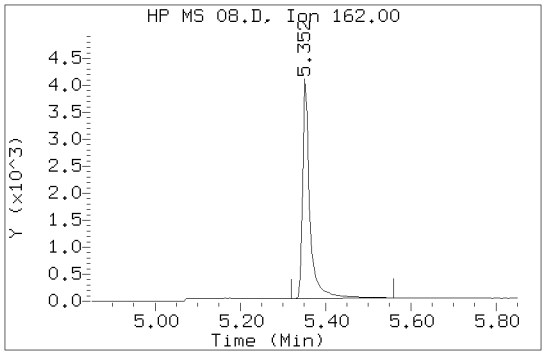
BEFORE

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AREA
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HEIGHT
4097
31-May-2024
15:56
ALSHS
Server



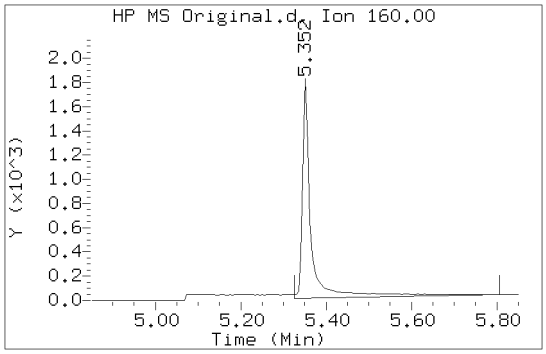
AFTER

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AREA
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HEIGHT
4065
31-May-2024
16:14



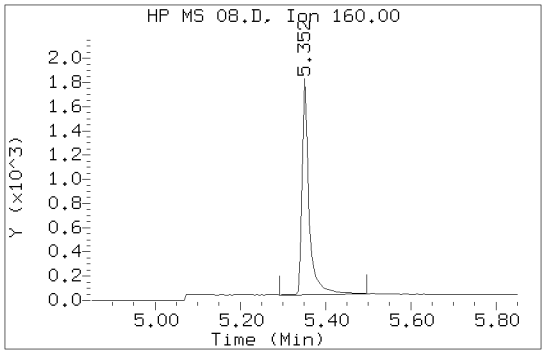
BEFORE

MASS
160
AREA
2607
HEIGHT
1813
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
160
AREA
2048
HEIGHT
1783
31-May-2024
16:14

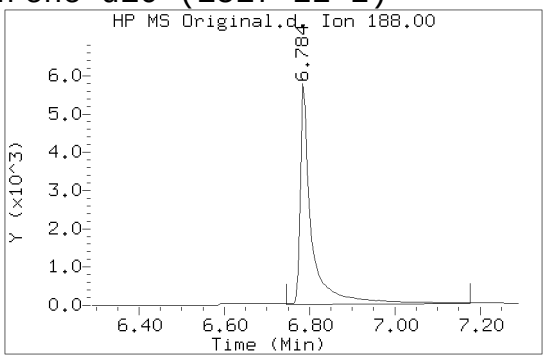


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

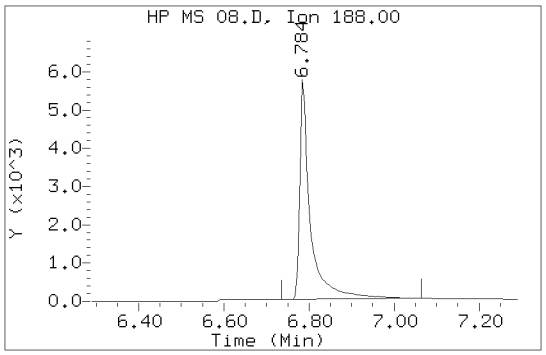
Phenanthrene-d10 (1517-22-2)

Reason Code:

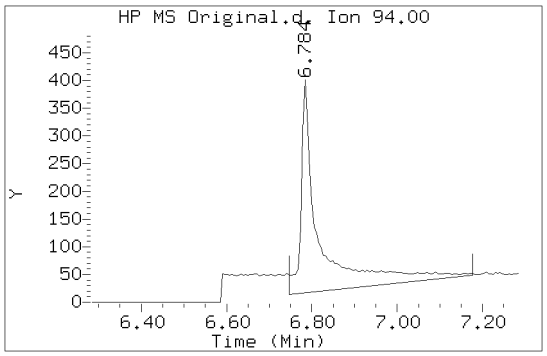
BEFORE
MASS
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AREA
10910
HEIGHT
5774
31-May-2024
15:56
ALSHS
Server



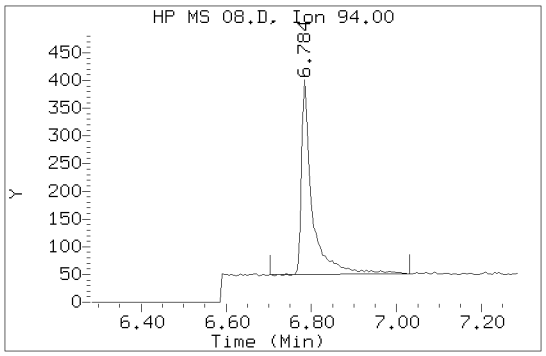
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MASS
188
AREA
9991
HEIGHT
5741
31-May-2024
16:14



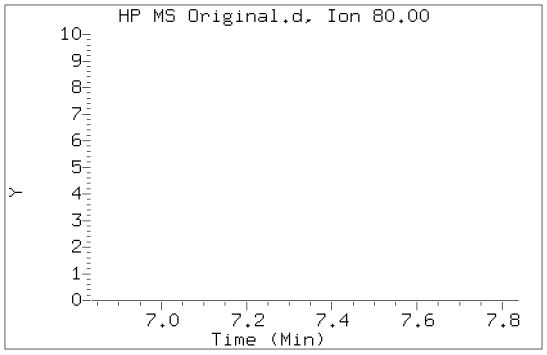
BEFORE
MASS
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AREA
1129
HEIGHT
383
31-May-2024
15:56
ALSHS
Server



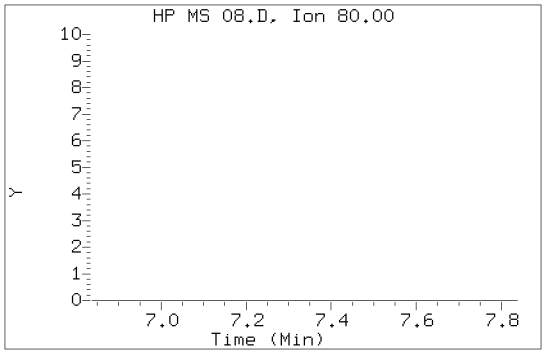
AFTER
MASS
94
AREA
620
HEIGHT
350
31-May-2024
16:14



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
15:56
ALSHS
Server



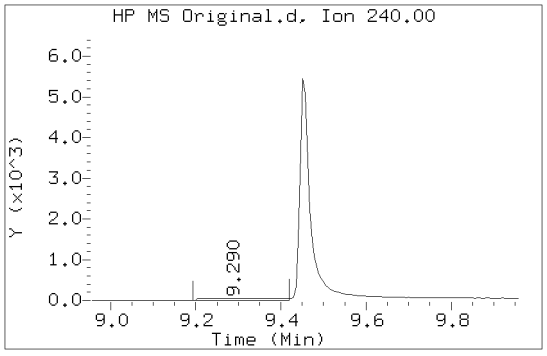
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AREA
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HEIGHT
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31-May-2024
16:14



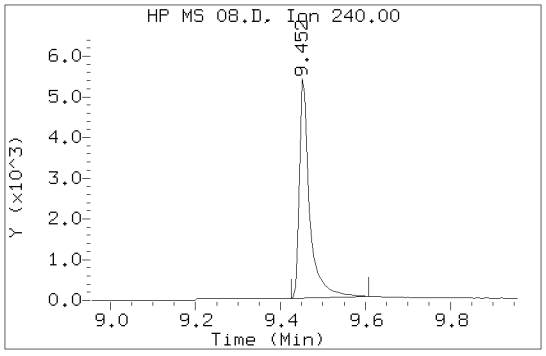
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
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240
AREA
618
HEIGHT
49
31-May-2024
15:56
ALSHS
Server



AFTER
MASS
240
AREA
8937
HEIGHT
5392
31-May-2024
16:14



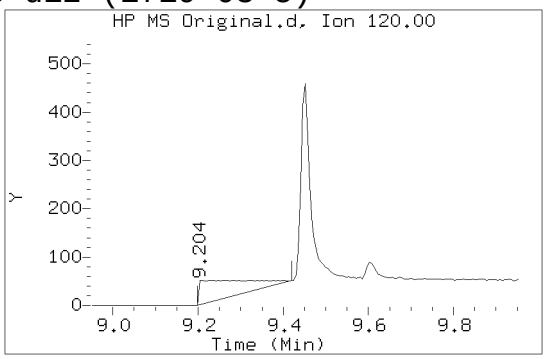
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

Chrysene-d12 (1719-03-5)

Reason Code:

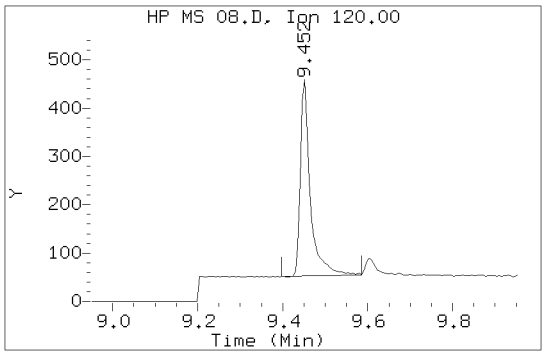
BEFORE

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AREA
328
HEIGHT
50
31-May-2024
15:56
ALSHS
Server



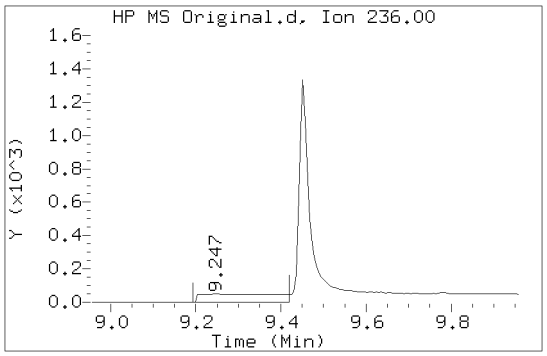
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406
31-May-2024
16:14



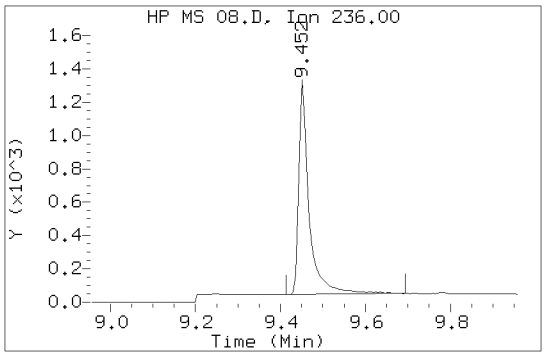
BEFORE

MASS
236
AREA
629
HEIGHT
50
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
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AREA
2134
HEIGHT
1285
31-May-2024
16:14

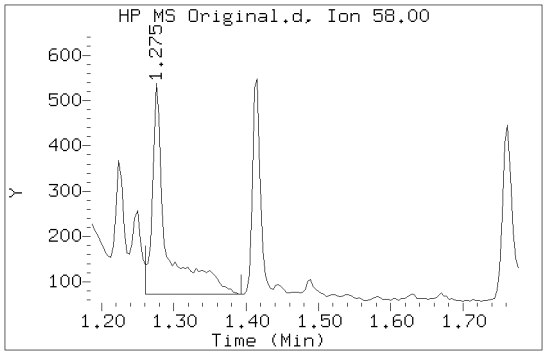


1,4-Dioxane ()

Reason Code:

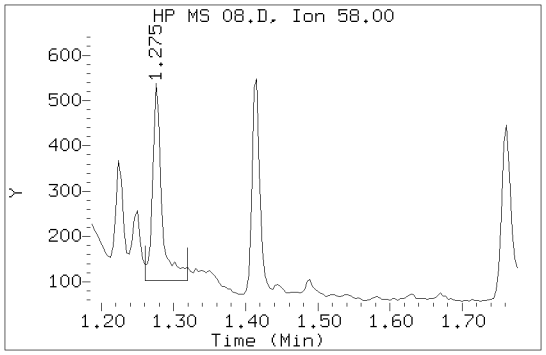
BEFORE

MASS
58
AREA
644
HEIGHT
467
31-May-2024
15:56
ALSHS
Server



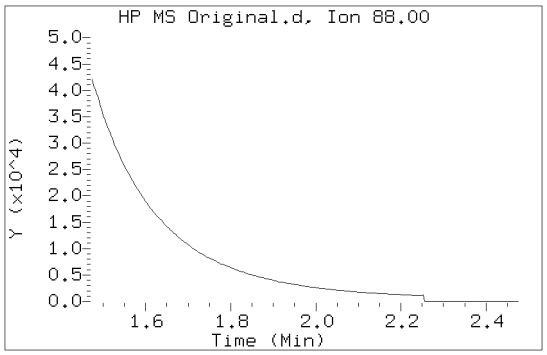
AFTER

MASS
58
AREA
392
HEIGHT
437
31-May-2024
16:14



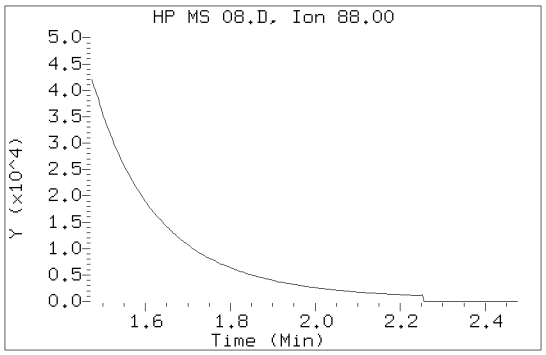
BEFORE

MASS
88
AREA
0
HEIGHT
0
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
31-May-2024
16:14

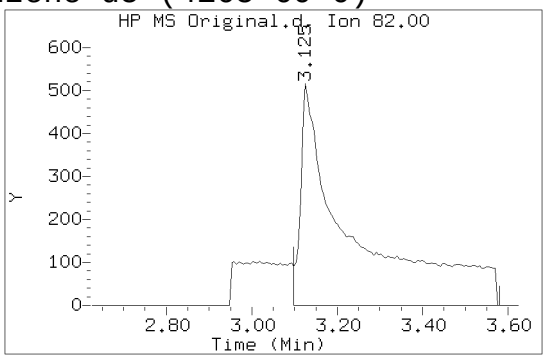


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\08.D
Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

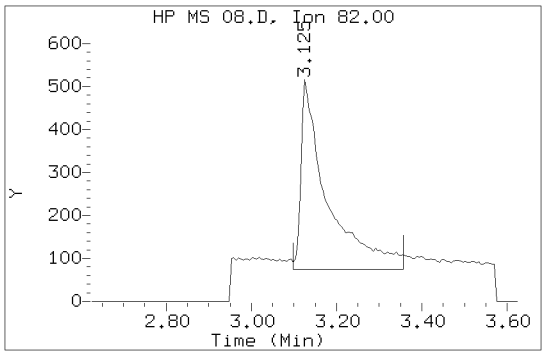
Nitrobenzene-d5 (4165-60-0)

Reason Code:

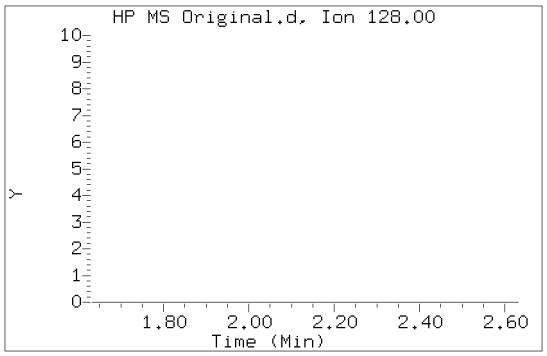
BEFORE
MASS
82
AREA
4279
HEIGHT
516
31-May-2024
15:56
ALSHS
Server



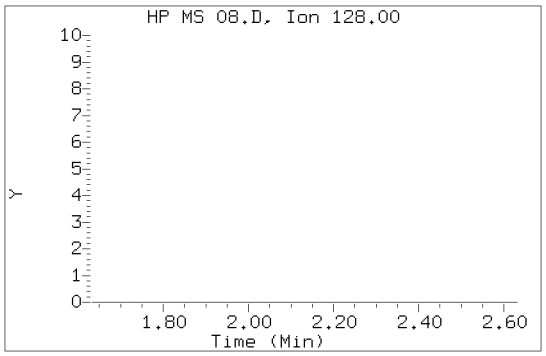
AFTER
MASS
82
AREA
1890
HEIGHT
441
31-May-2024
16:14



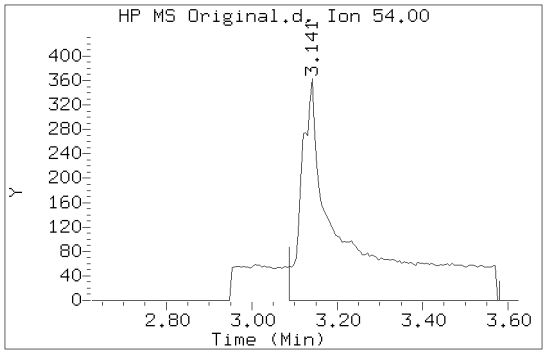
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
15:56
ALSHS
Server



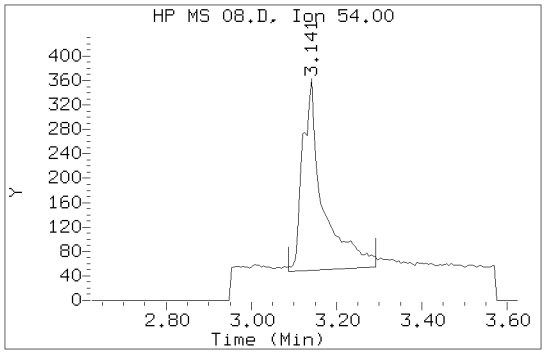
AFTER
MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:14



BEFORE
MASS
54
AREA
2673
HEIGHT
363
31-May-2024
15:56
ALSHS
Server



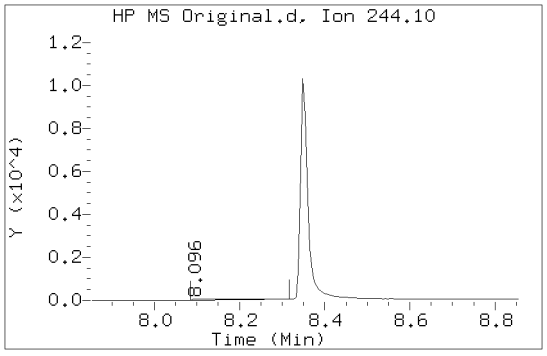
AFTER
MASS
54
AREA
1038
HEIGHT
313
31-May-2024
16:14



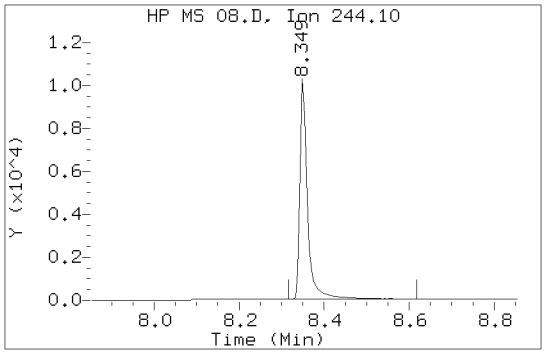
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
304
HEIGHT
43
31-May-2024
15:56
ALSHS
Server



AFTER
MASS
244.1
AREA
12727
HEIGHT
10275
31-May-2024
16:14



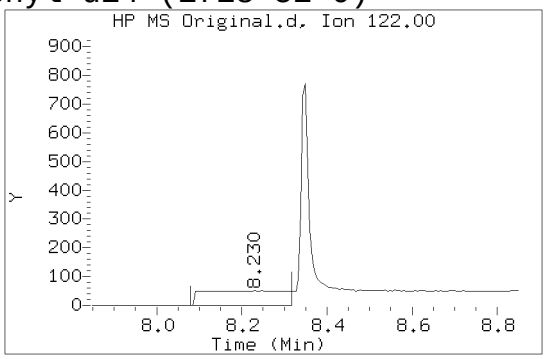
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Inj Date : 31-MAY-2024 15:41
InstruID : SV6.i
LabSampID : LCS-212606

4-Terphenyl-d14 (1718-51-0)

Reason Code:

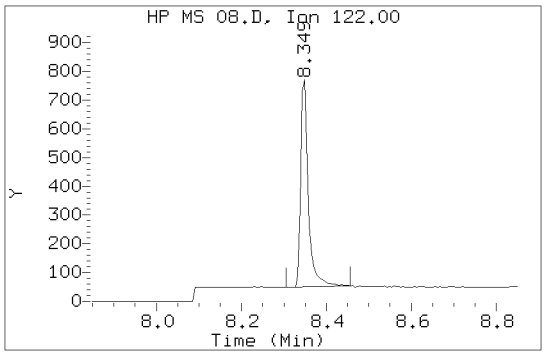
BEFORE

MASS
122
AREA
681
HEIGHT
51
31-May-2024
15:56
ALSHS
Server



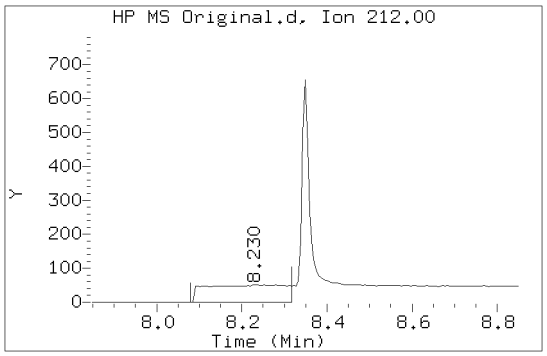
AFTER

MASS
122
AREA
887
HEIGHT
721
31-May-2024
16:14



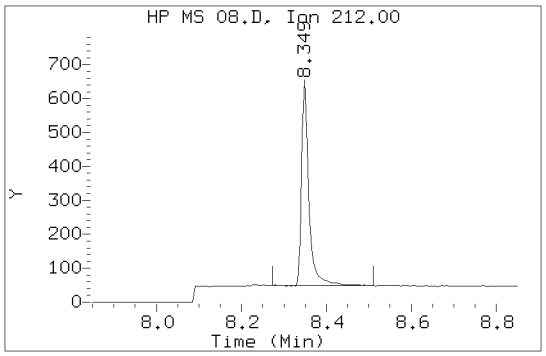
BEFORE

MASS
212
AREA
671
HEIGHT
52
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
212
AREA
705
HEIGHT
605
31-May-2024
16:14

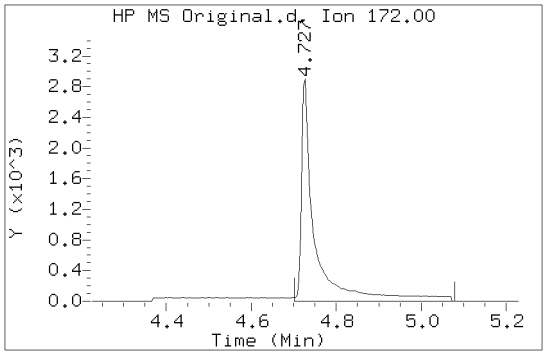


2-Fluorobiphenyl (321-60-8)

Reason Code:

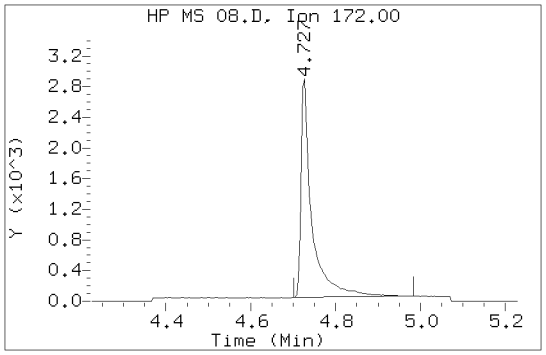
BEFORE

MASS
172
AREA
6438
HEIGHT
2901
31-May-2024
15:56
ALSHS
Server



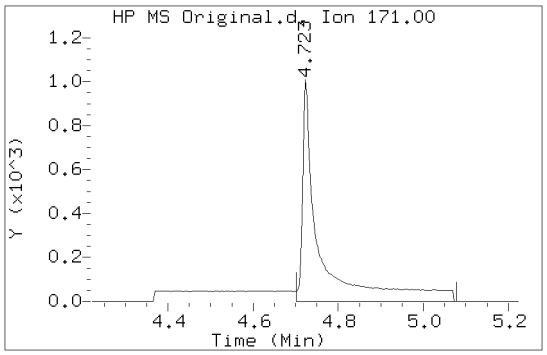
AFTER

MASS
172
AREA
5114
HEIGHT
2852
31-May-2024
16:14



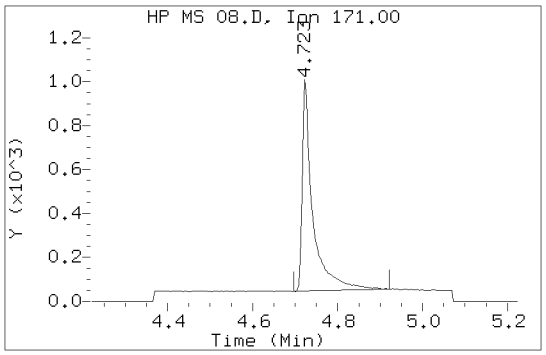
BEFORE

MASS
171
AREA
2822
HEIGHT
1009
31-May-2024
15:56
ALSHS
Server



AFTER

MASS
171
AREA
1666
HEIGHT
961
31-May-2024
16:14



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D Page 1
Report Date: 31-May-2024 16:18

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Lab Smp Id: LCSD-212606
Inj Date : 31-MAY-2024 15:58
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-212606
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 14:28 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 9 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.685	2.685	(1.000)	1770	0.10000	(aM)
* 45 Naphthalene-d8	136	3.727	3.723	(1.000)	6174	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.135	3.125	(0.841)	1258	0.06787	0.06787(M)
* 86 Acenaphthene-d10	164	5.357	5.356	(1.000)	3820	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	3840	0.06576	0.06576(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	7101	0.10000	(M)
* 182 Chrysene-d12	240	9.457	9.456	(1.000)	6979	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.348	8.354	(0.883)	9629	0.06773	0.06773(M)
* 198 Perylene-d12	264	11.339	11.339	(1.000)	7163	0.10000	(M)
1 1,4-Dioxane	58	1.260	1.275	(0.469)	272	0.07174	0.07174(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D

Date : 31-MAY-2024 15:58

Client ID:

Instrument: SV6.i

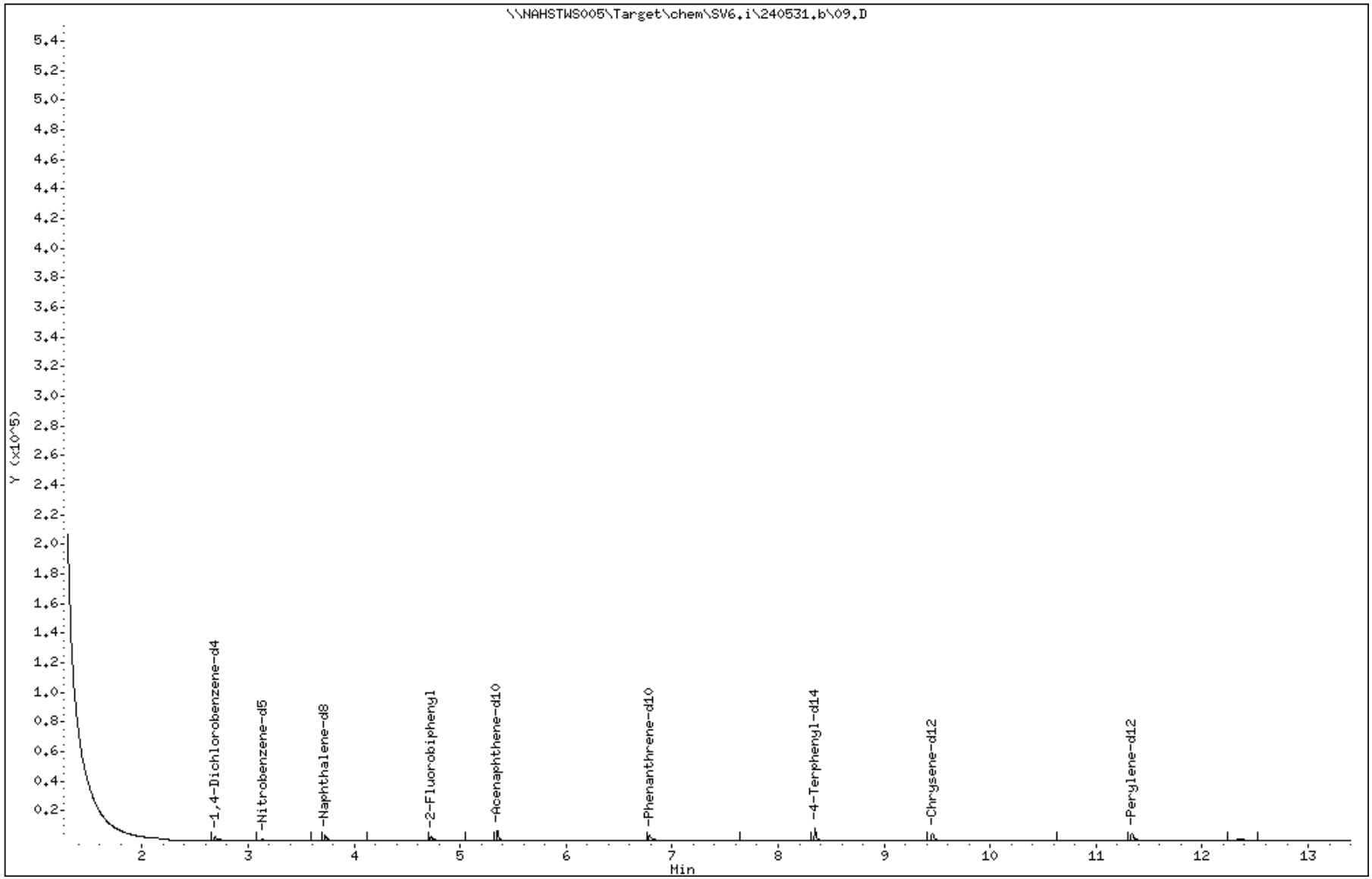
Sample Info: LCSD-212606

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

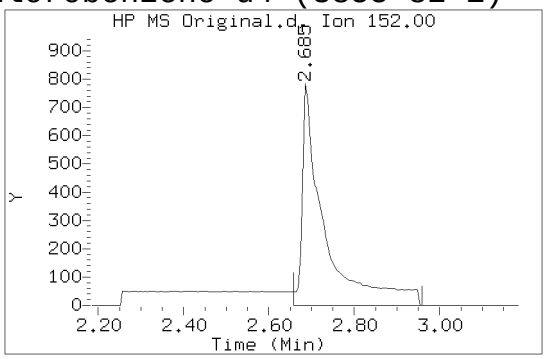


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

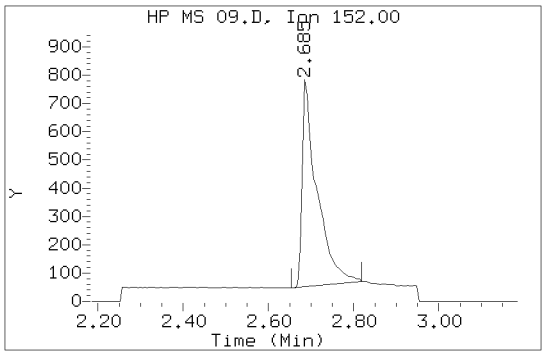
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

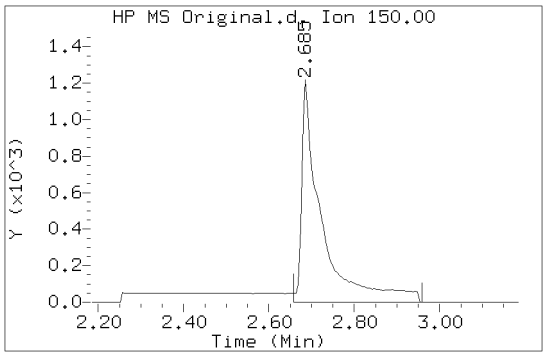
BEFORE
MASS
152
AREA
2821
HEIGHT
784
31-May-2024
16:15
ALSHS
Server



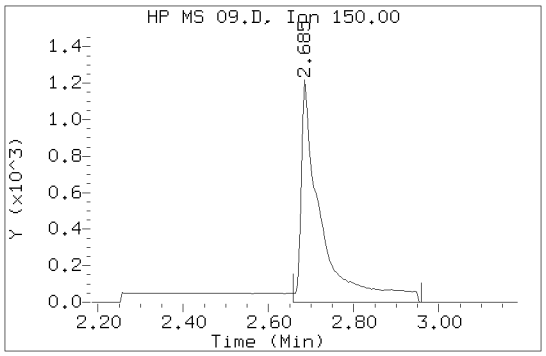
AFTER
MASS
152
AREA
1770
HEIGHT
731
31-May-2024
16:18



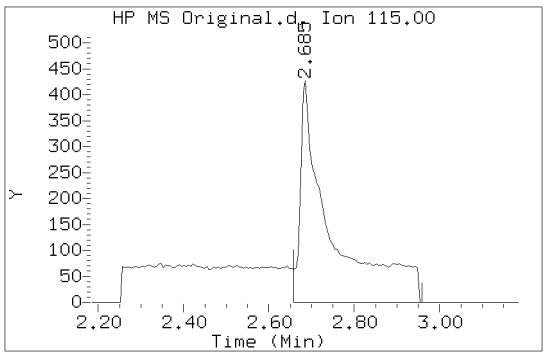
BEFORE
MASS
150
AREA
3936
HEIGHT
1218
31-May-2024
16:15
ALSHS
Server



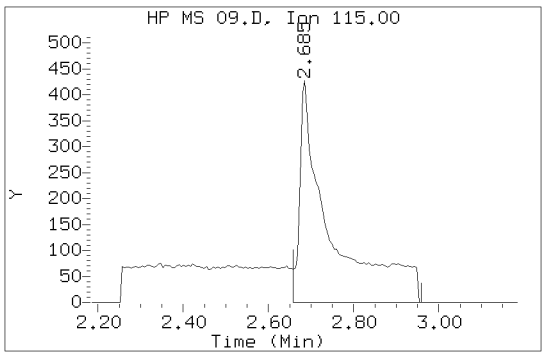
AFTER
MASS
150
AREA
3936
HEIGHT
1218
31-May-2024
16:18



BEFORE
MASS
115
AREA
2135
HEIGHT
427
31-May-2024
16:15
ALSHS
Server



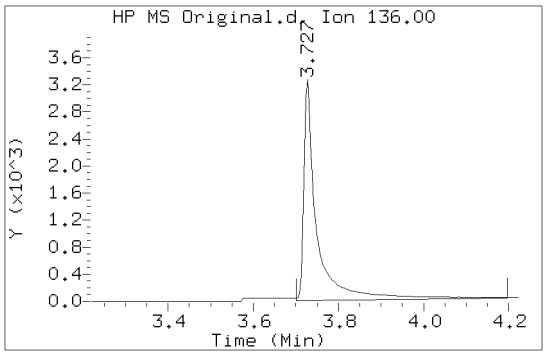
AFTER
MASS
115
AREA
2135
HEIGHT
427
31-May-2024
16:18



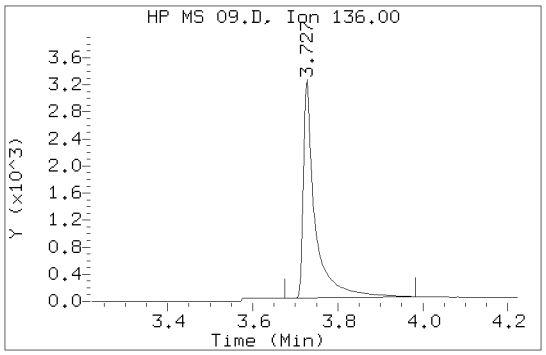
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
7091
HEIGHT
3264
31-May-2024
16:15
ALSHS
Server



AFTER
MASS
136
AREA
6174
HEIGHT
3224
31-May-2024
16:18



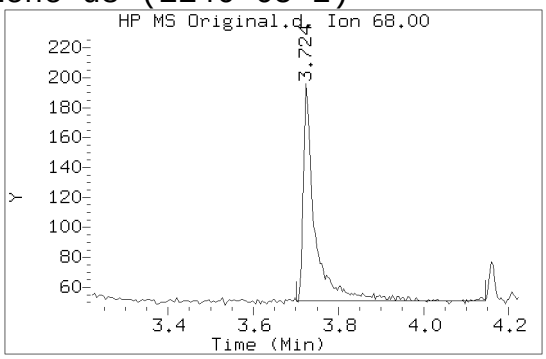
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

Naphthalene-d8 (1146-65-2)

Reason Code:

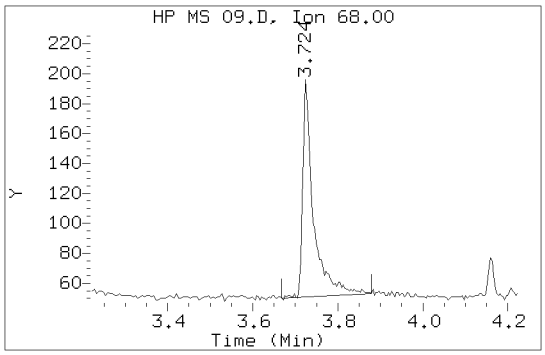
BEFORE

MASS
68
AREA
277
HEIGHT
145
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
68
AREA
257
HEIGHT
145
31-May-2024
16:18

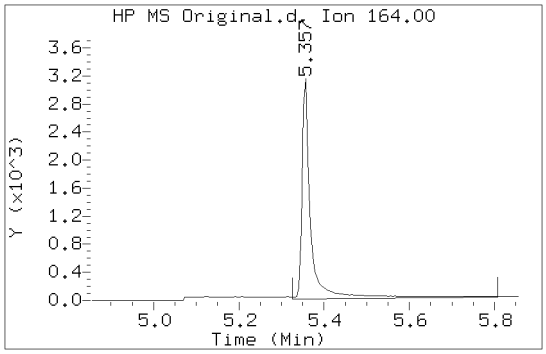


Acenaphthene-d10 (15067-26-2)

Reason Code:

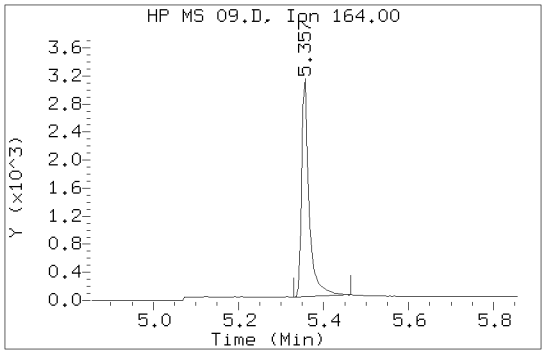
BEFORE

MASS
164
AREA
4564
HEIGHT
3140
31-May-2024
16:15
ALSHS
Server



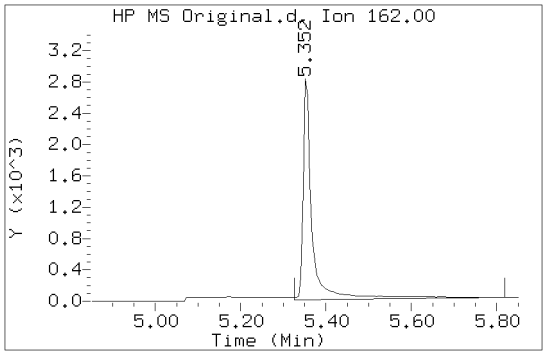
AFTER

MASS
164
AREA
3820
HEIGHT
3107
31-May-2024
16:18



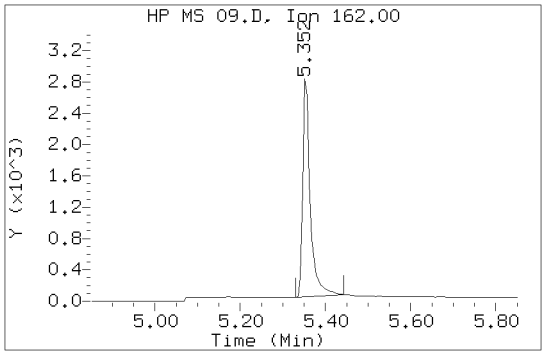
BEFORE

MASS
162
AREA
4208
HEIGHT
2820
31-May-2024
16:15
ALSHS
Server



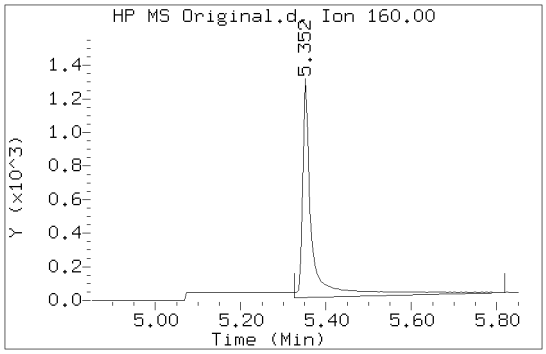
AFTER

MASS
162
AREA
3423
HEIGHT
2783
31-May-2024
16:18



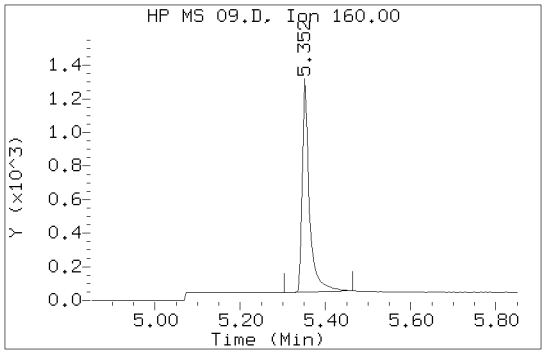
BEFORE

MASS
160
AREA
2078
HEIGHT
1303
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
160
AREA
1490
HEIGHT
1271
31-May-2024
16:18



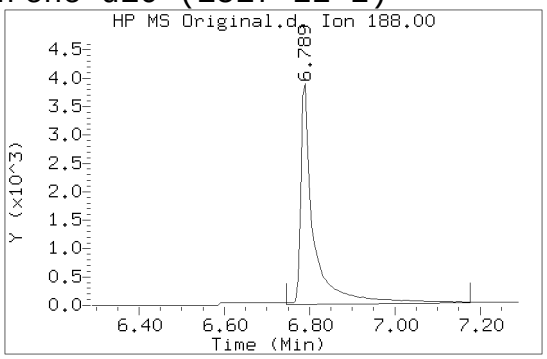
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

Phenanthrene-d10 (1517-22-2)

Reason Code:

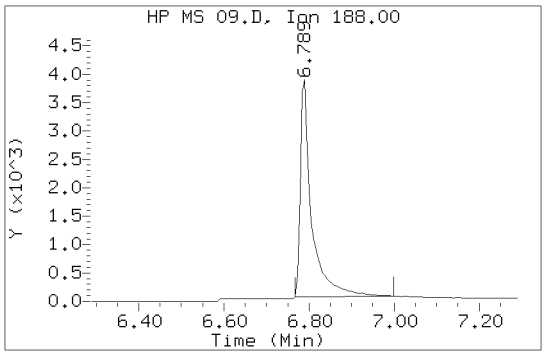
BEFORE

MASS
188
AREA
8327
HEIGHT
3885
31-May-2024
16:15
ALSHS
Server



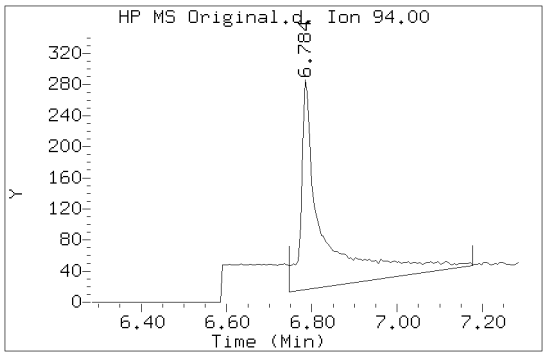
AFTER

MASS
188
AREA
7101
HEIGHT
3823
31-May-2024
16:18



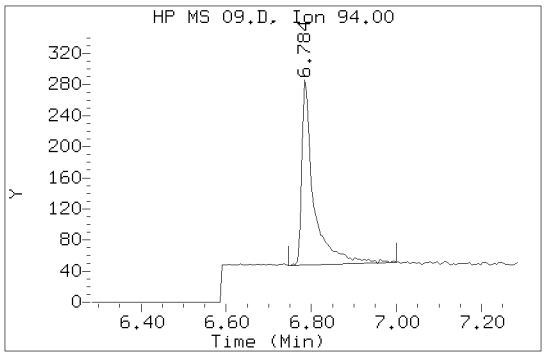
BEFORE

MASS
94
AREA
983
HEIGHT
270
31-May-2024
16:15
ALSHS
Server



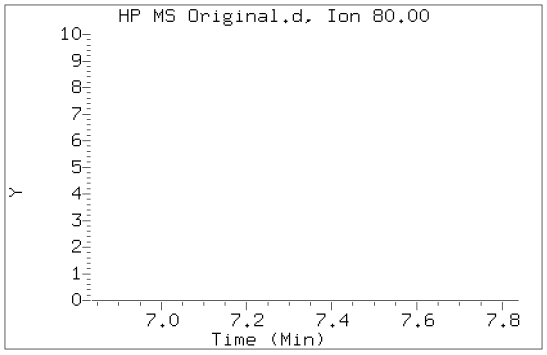
AFTER

MASS
94
AREA
471
HEIGHT
238
31-May-2024
16:18



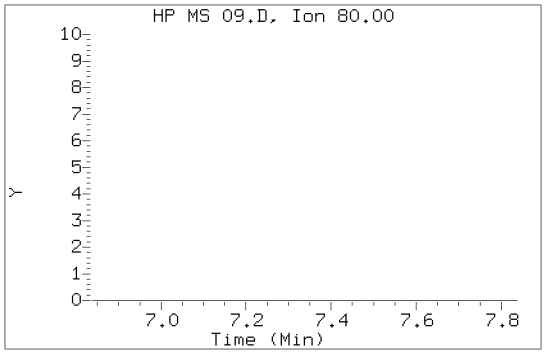
BEFORE

MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:18

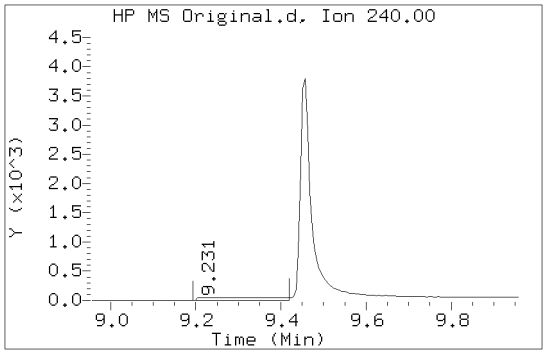


Chrysene-d12 (1719-03-5)

Reason Code:

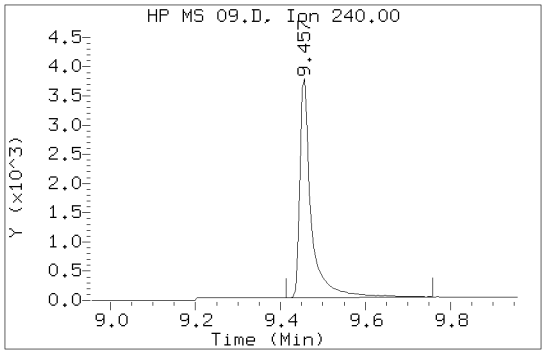
BEFORE

MASS
240
AREA
610
HEIGHT
47
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
240
AREA
6979
HEIGHT
3746
31-May-2024
16:18

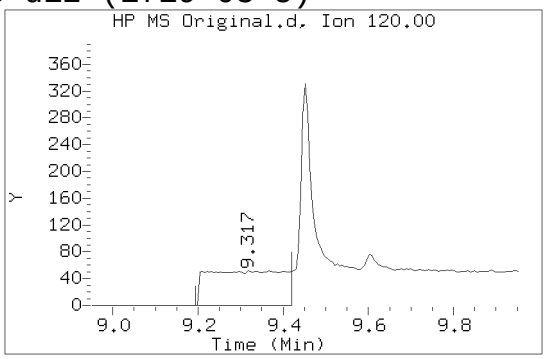


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

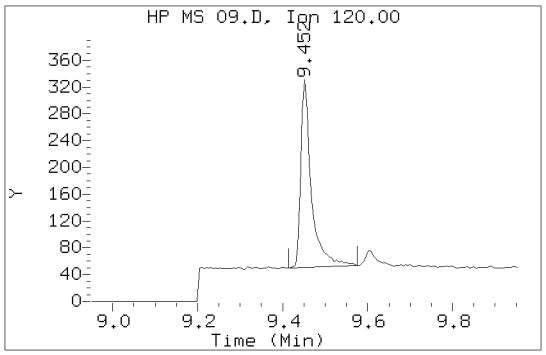
Chrysene-d12 (1719-03-5)

Reason Code:

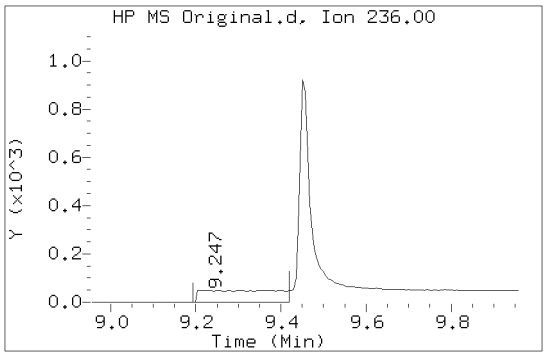
BEFORE
MASS
120
AREA
660
HEIGHT
52
31-May-2024
16:15
ALSHS
Server



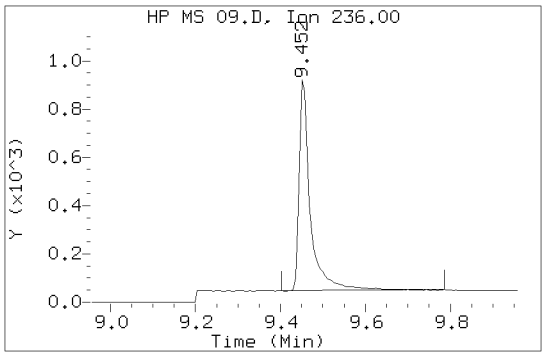
AFTER
MASS
120
AREA
477
HEIGHT
280
31-May-2024
16:18



BEFORE
MASS
236
AREA
619
HEIGHT
48
31-May-2024
16:15
ALSHS
Server



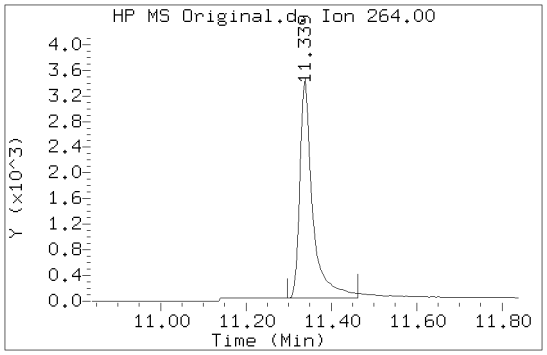
AFTER
MASS
236
AREA
1568
HEIGHT
872
31-May-2024
16:18



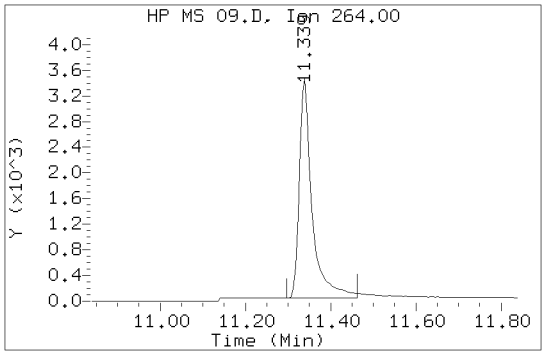
Perylene-d12 (1520-96-3)

Reason Code:

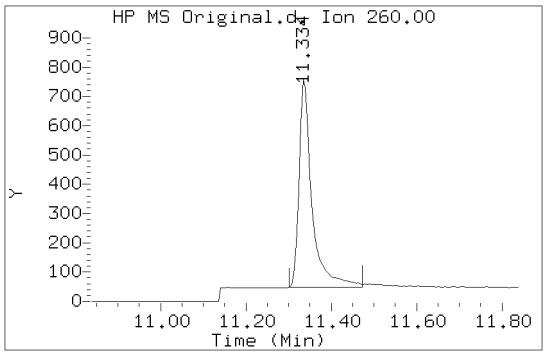
BEFORE
MASS
264
AREA
7163
HEIGHT
3416
31-May-2024
16:15
ALSHS
Server



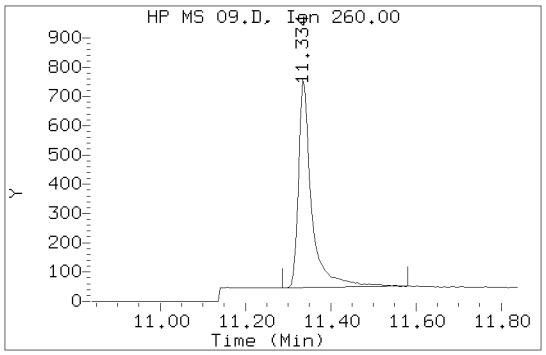
AFTER
MASS
264
AREA
7163
HEIGHT
3416
31-May-2024
16:18



BEFORE
MASS
260
AREA
1501
HEIGHT
709
31-May-2024
16:15
ALSHS
Server



AFTER
MASS
260
AREA
1508
HEIGHT
709
31-May-2024
16:18

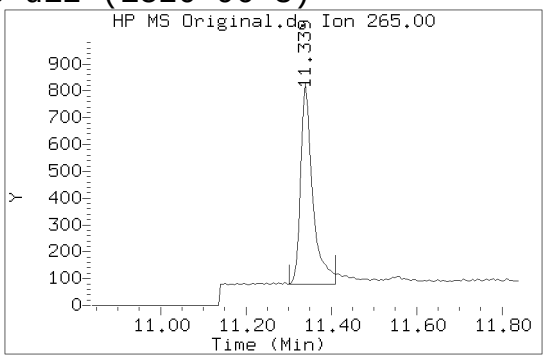


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

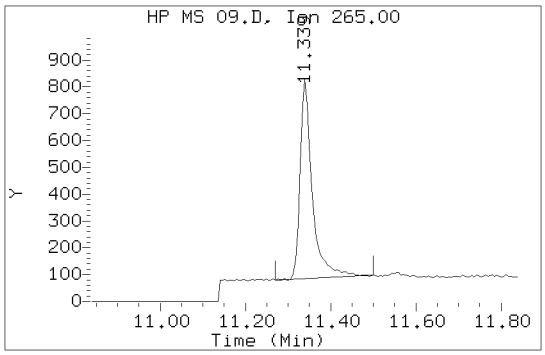
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
1468
HEIGHT
747
31-May-2024
16:15
ALSHS
Server



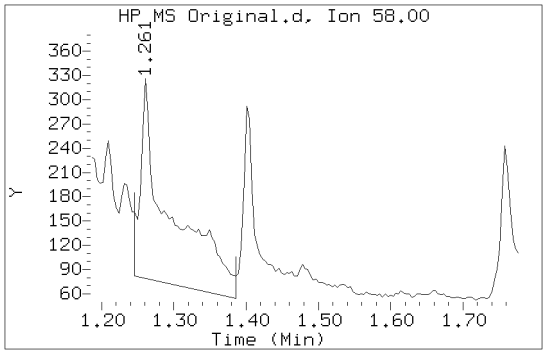
AFTER
MASS
265
AREA
1479
HEIGHT
742
31-May-2024
16:18



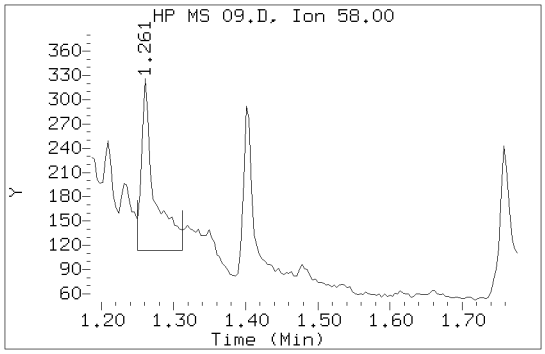
1,4-Dioxane ()

Reason Code:

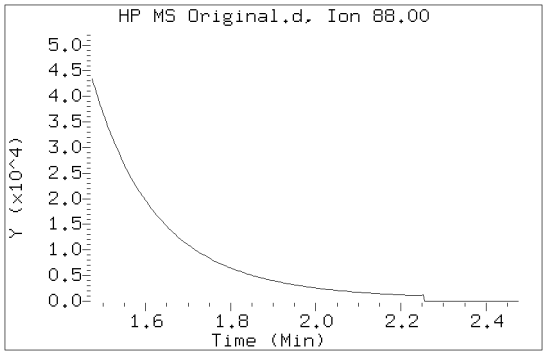
BEFORE
MASS
58
AREA
700
HEIGHT
246
31-May-2024
16:15
ALSHS
Server



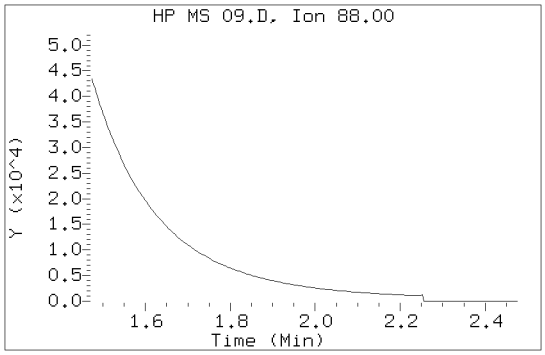
AFTER
MASS
58
AREA
272
HEIGHT
212
31-May-2024
16:18



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



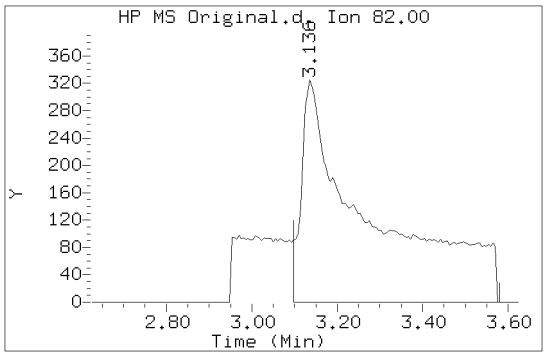
AFTER
MASS
88
AREA
0
HEIGHT
0
31-May-2024
16:18



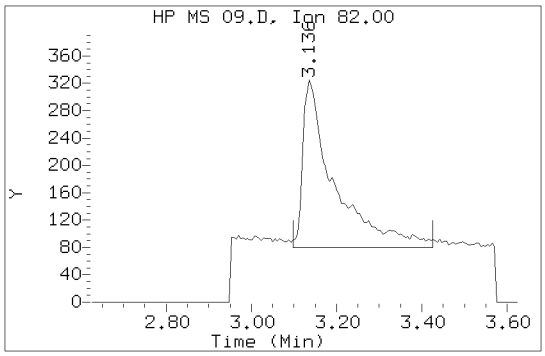
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
3588
HEIGHT
325
31-May-2024
16:15
ALSHS
Server



AFTER
MASS
82
AREA
1258
HEIGHT
245
31-May-2024
16:18



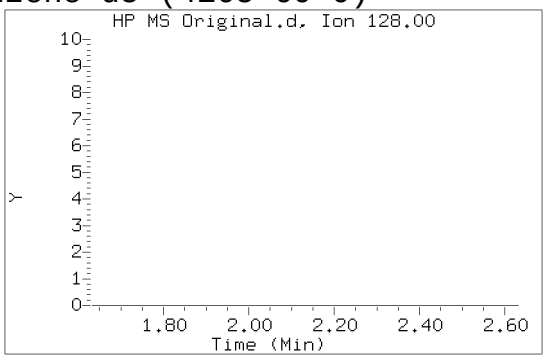
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\09.D
Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

Nitrobenzene-d5 (4165-60-0)

Reason Code:

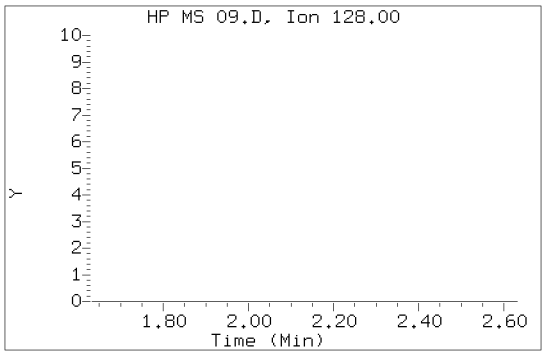
BEFORE

MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



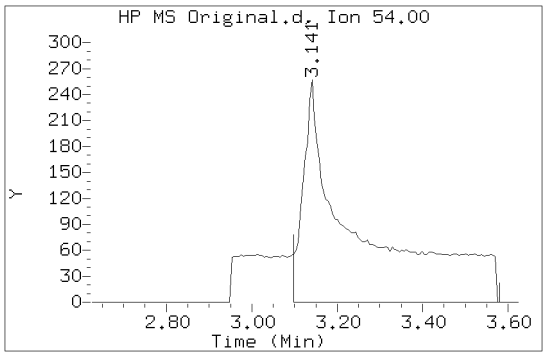
AFTER

MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:18



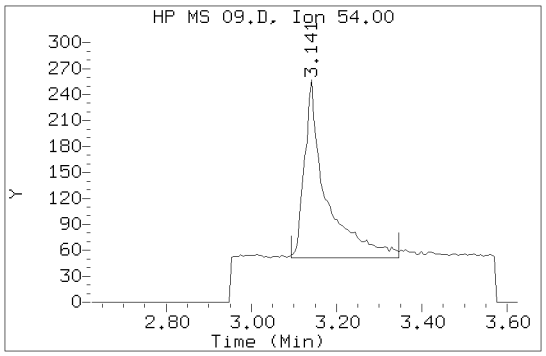
BEFORE

MASS
54
AREA
2251
HEIGHT
257
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
54
AREA
733
HEIGHT
206
31-May-2024
16:18

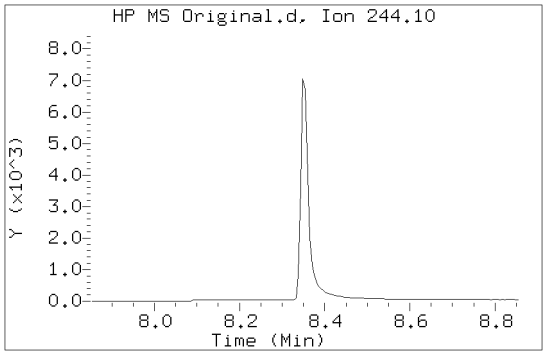


4-Terphenyl-d14 (1718-51-0)

Reason Code:

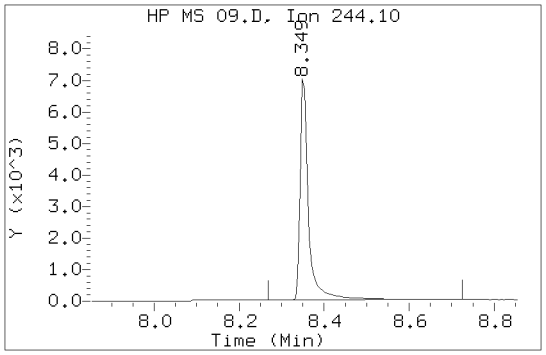
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



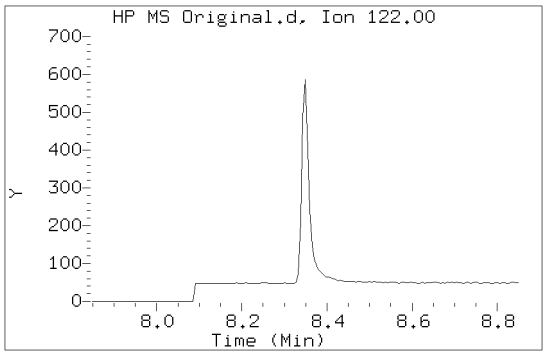
AFTER

MASS
244.1
AREA
9629
HEIGHT
7001
31-May-2024
16:18



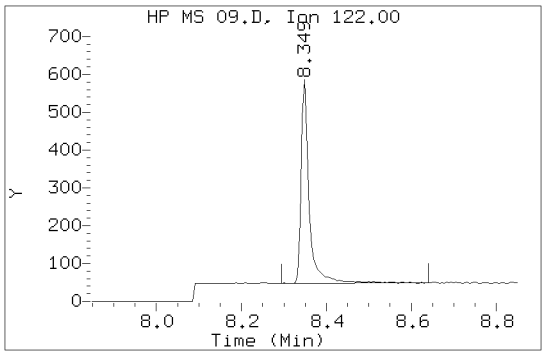
BEFORE

MASS
122
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
122
AREA
695
HEIGHT
537
31-May-2024
16:18



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\10.D
Lab Smp Id: HS24051276-01
Inj Date : 31-MAY-2024 16:16
Operator : LG Inst ID: SV6.i
Smp Info : HS24051276-01X10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

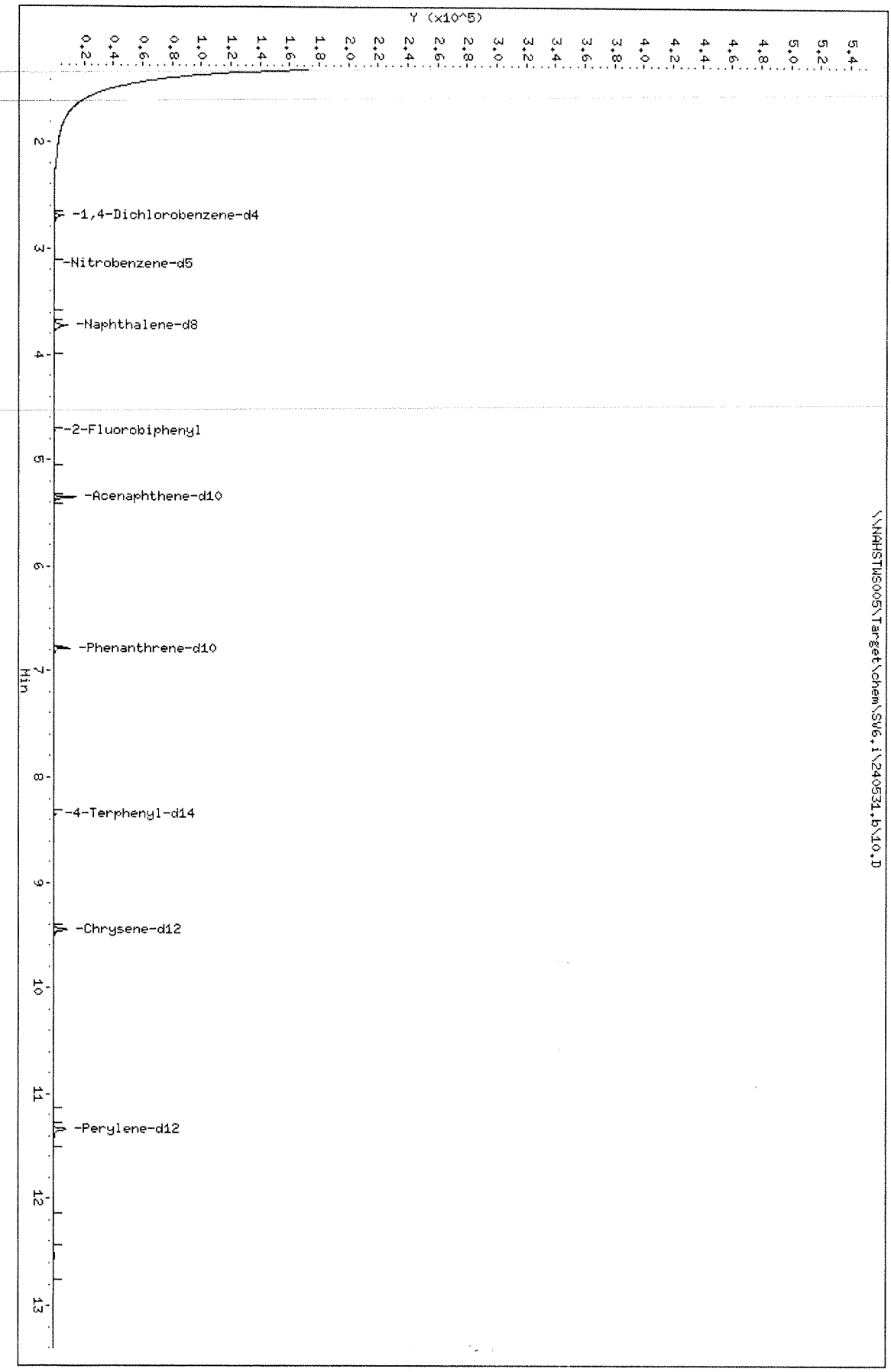
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	3609	0.10000		(aQ)
* 45 Naphthalene-d8	136	3.723	3.727	(1.000)	11247	0.10000		(Q)
$ 33 Nitrobenzene-d5	82	3.146	3.135	(0.845)	244	0.00723	0.07226	(M)
* 86 Acenaphthene-d10	164	5.351	5.356	(1.000)	6843	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.883)	798	0.00763	0.07629	(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	12802	0.10000		(M)
* 182 Chrysene-d12	240	9.451	9.462	(1.000)	12085	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	1906	0.00774	0.07742	(M)
* 198 Perylene-d12	264	11.334	11.344	(1.000)	12545	0.10000		
1 1,4-Dioxane	58	1.312	1.267	(0.488)	721	0.09327	0.9327	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\SW6.i\240531.b\10.D
Date : 31-MAY-2024 16:16
Client ID:
Sample Info: HS24051276-01X10
Purge Volume: 1000.0
Column phase: RTX-5SIL MS
Instrument: SW6.i
Operator: LG
Column diameter: 0.28
Y (x10^5)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-4-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
Min
\\NAHSTWS005\Target\chem\SW6.i\240531.b\10.D

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\10.D

Date : 31-MAY-2024 16:16

Client ID:

Instrument: SV6.i

Sample Info: HS24051276-01X10

Purge Volume: 1000.0

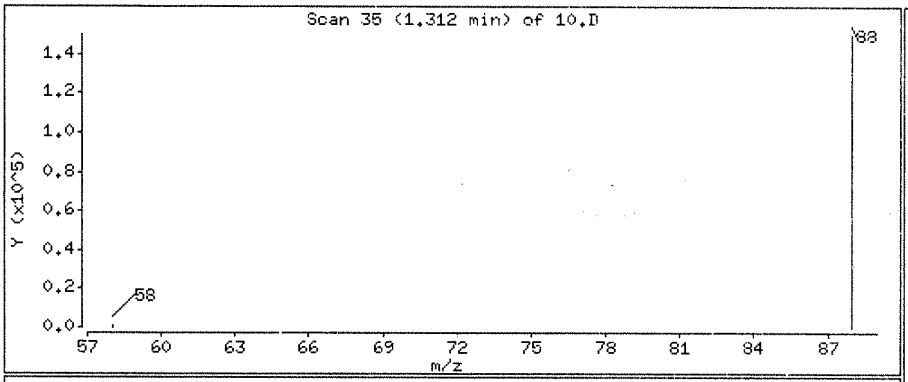
Operator: LG

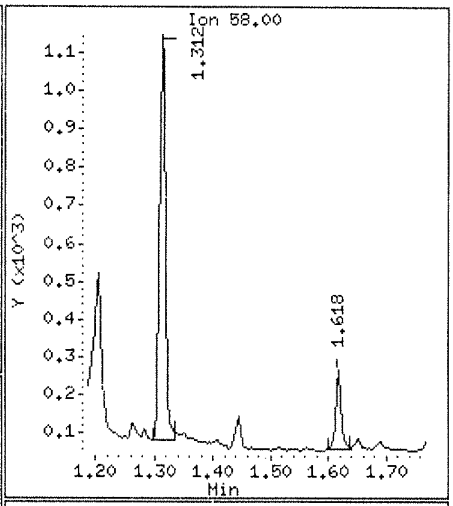
Column phase: RTX-5SIL MS

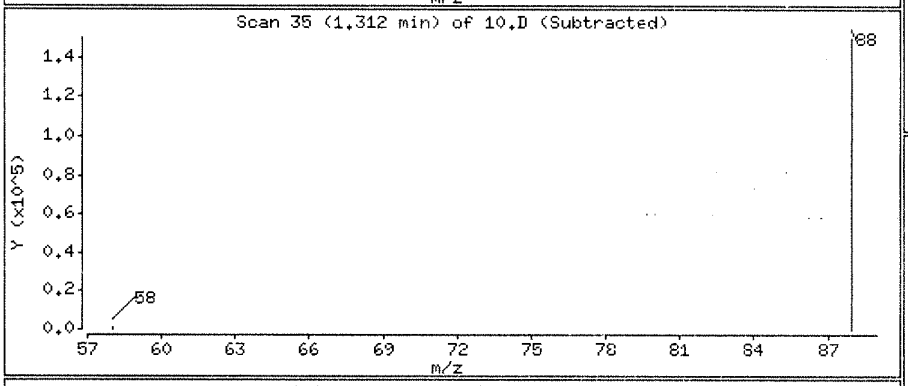
Column diameter: 0.28

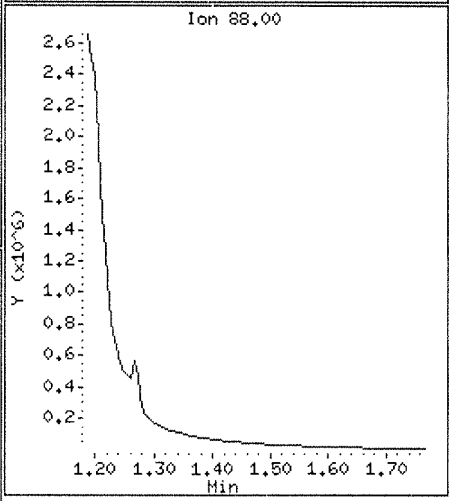
1 1,4-Dioxane

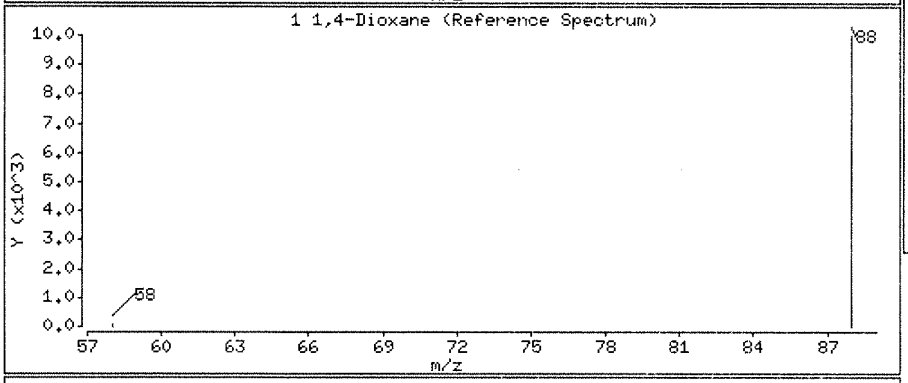
Concentration: 0.9327 ug/L

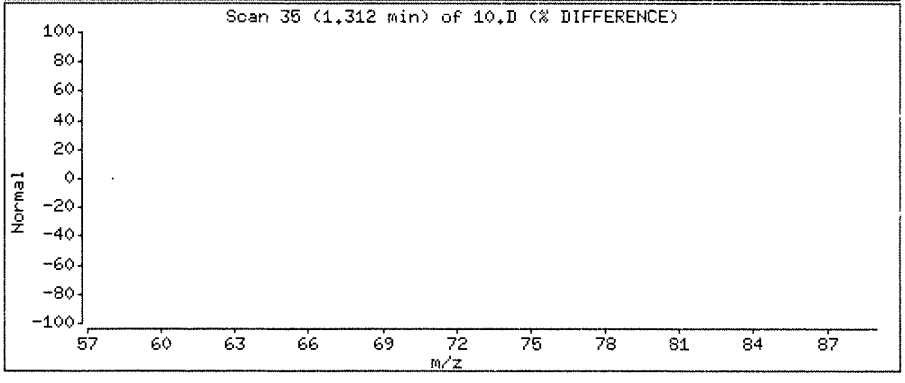










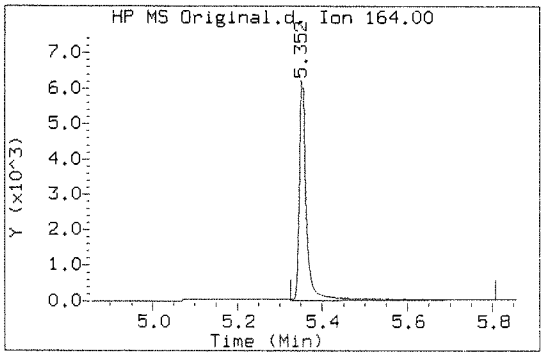


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Inj Date : 31-MAY-2024 16:16
InstruID : SV6.i
LabSampID : HS24051276-01

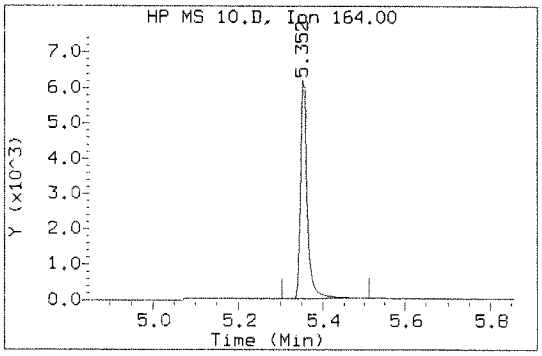
Acenaphthene-d10 (15067-26-2)

Reason Code:

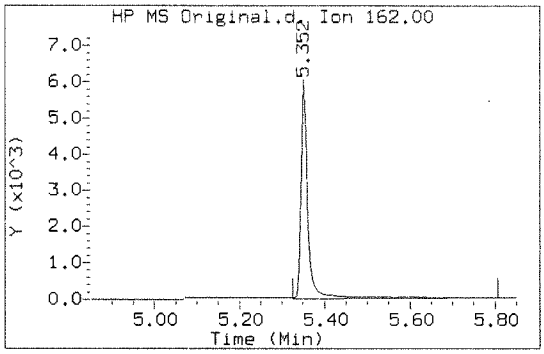
BEFORE
MASS
164
AREA
7573
HEIGHT
6205
31-May-2024
16:32
ALSHS
Server



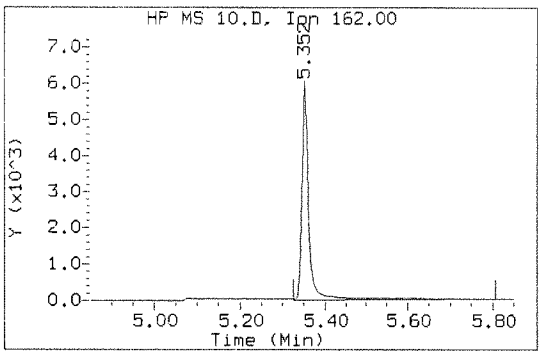
AFTER
MASS
164
AREA
6843
HEIGHT
6170
31-May-2024
16:35



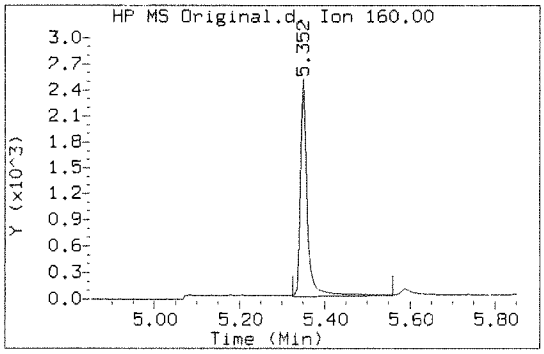
BEFORE
MASS
162
AREA
6972
HEIGHT
6053
31-May-2024
16:32
ALSHS
Server



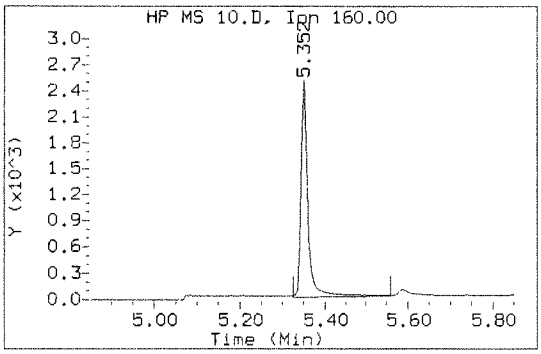
AFTER
MASS
162
AREA
6972
HEIGHT
6053
31-May-2024
16:35



BEFORE
MASS
160
AREA
2851
HEIGHT
2499
31-May-2024
16:32
ALSHS
Server



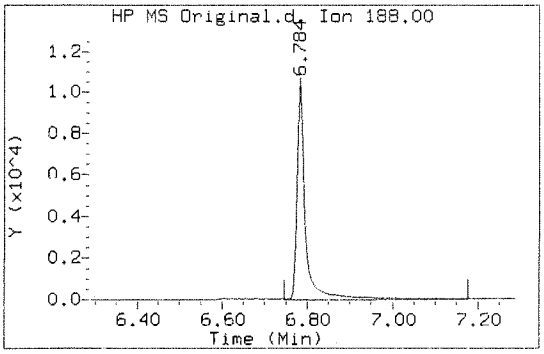
AFTER
MASS
160
AREA
2851
HEIGHT
2499
31-May-2024
16:35



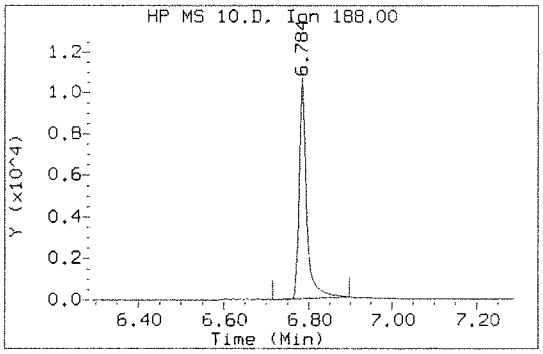
Phenanthrene-d10 (1517-22-2)

Reason Code:

BEFORE
MASS
188
AREA
14371
HEIGHT
10702
31-May-2024
16:32
ALSHS
Server



AFTER
MASS
188
AREA
12802
HEIGHT
10635
31-May-2024
16:35

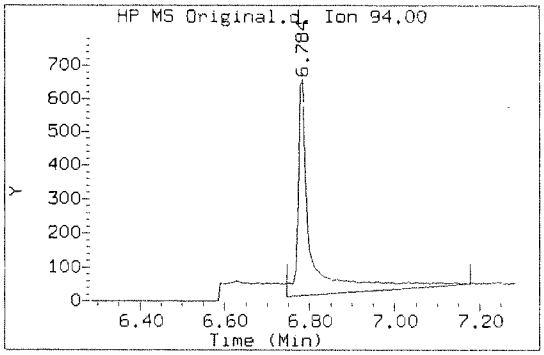


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InstruID : SV6.i
LabSampID : HS24051276-01

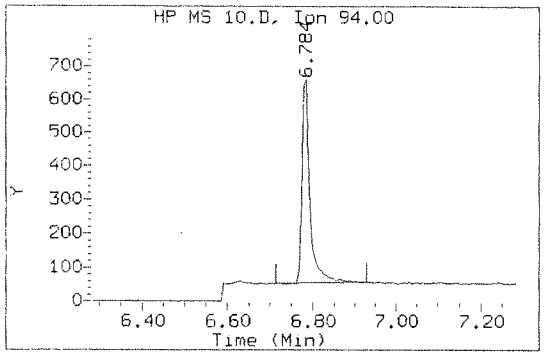
Phenanthrene-d10 (1517-22-2)

Reason Code:

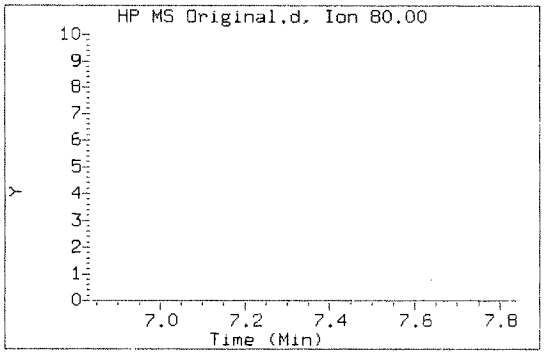
BEFORE
MASS
94
AREA
1356
HEIGHT
642
31-May-2024
16:32
ALSHS
Server



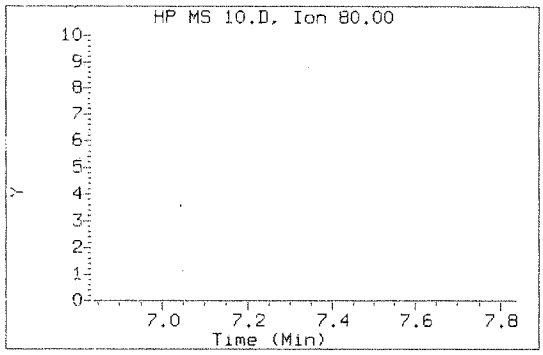
AFTER
MASS
94
AREA
784
HEIGHT
605
31-May-2024
16:35



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:32
ALSHS
Server



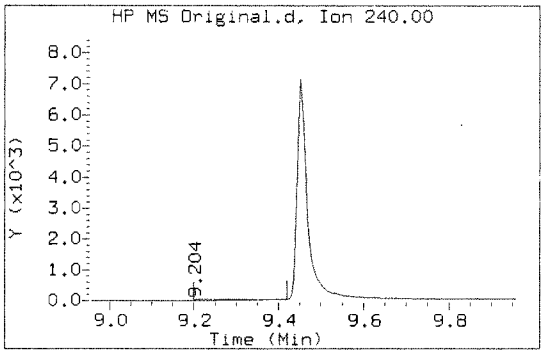
AFTER
MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:35



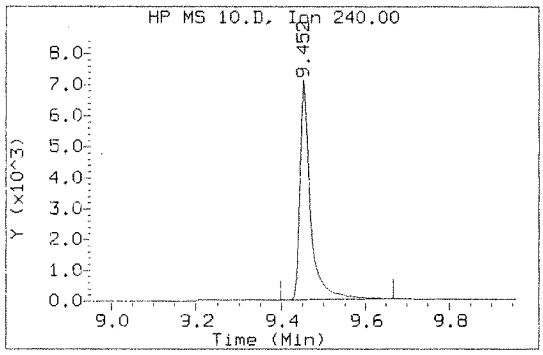
Chrysene-d12 (1719-03-5)

Reason Code:

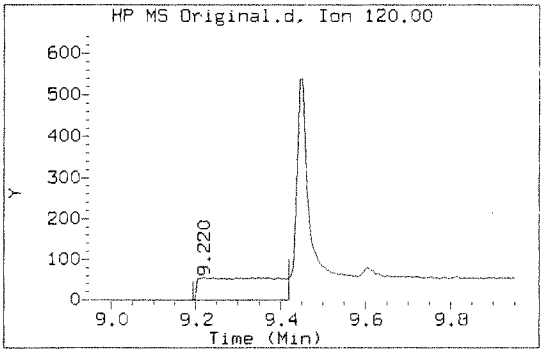
BEFORE
MASS
240
AREA
297
HEIGHT
46
31-May-2024
16:32
ALSHS
Server



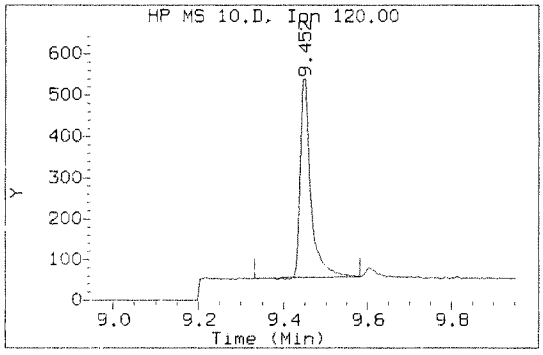
AFTER
MASS
240
AREA
12085
HEIGHT
7103
31-May-2024
16:35



BEFORE
MASS
120
AREA
704
HEIGHT
55
31-May-2024
16:32
ALSHS
Server



AFTER
MASS
120
AREA
822
HEIGHT
483
31-May-2024
16:35

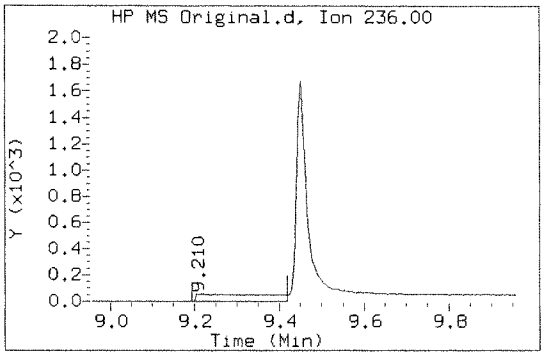


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Inj Date : 31-MAY-2024 16:16
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LabSampID : HS24051276-01

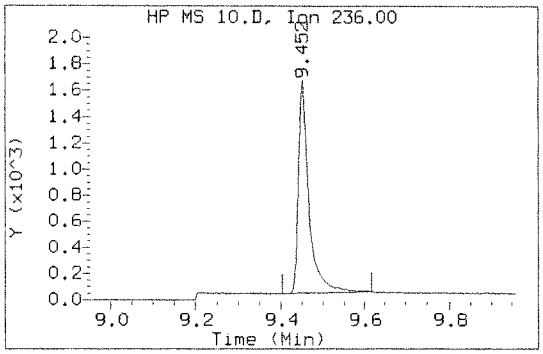
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
236
AREA
650
HEIGHT
52
31-May-2024
16:32
ALSHS
Server



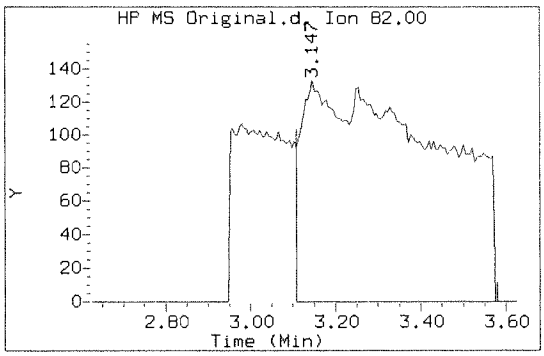
AFTER
MASS
236
AREA
2755
HEIGHT
1627
31-May-2024
16:35



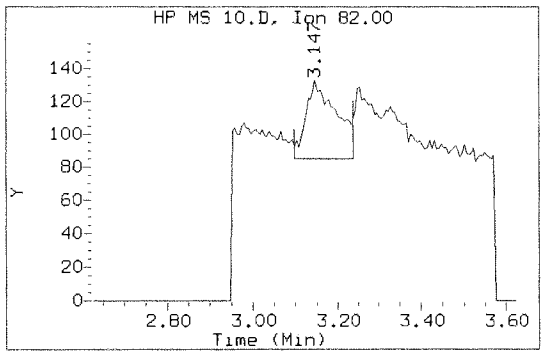
Nitrobenzene-d5 (4165-60-0)

Reason Code:

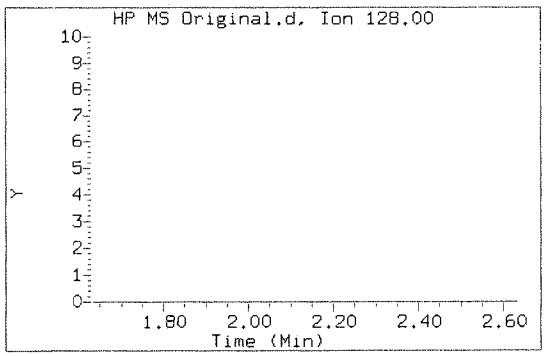
BEFORE
MASS
82
AREA
2910
HEIGHT
133
31-May-2024
16:32
ALSHS
Server



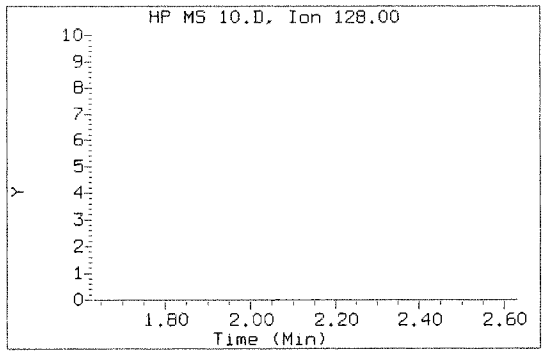
AFTER
MASS
82
AREA
244
HEIGHT
48
31-May-2024
16:35



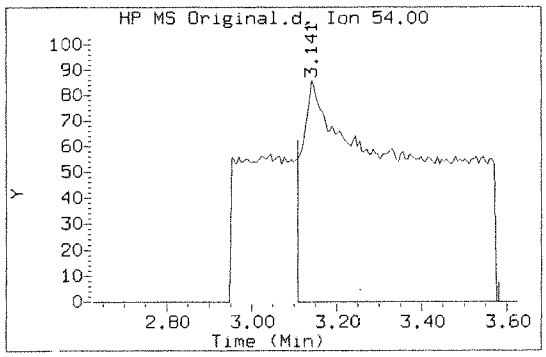
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:32
ALSHS
Server



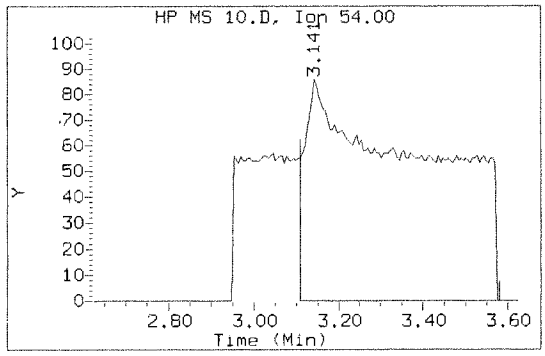
AFTER
MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:35



BEFORE
MASS
54
AREA
1654
HEIGHT
86
31-May-2024
16:32
ALSHS
Server



AFTER
MASS
54
AREA
1654
HEIGHT
86
31-May-2024
16:35

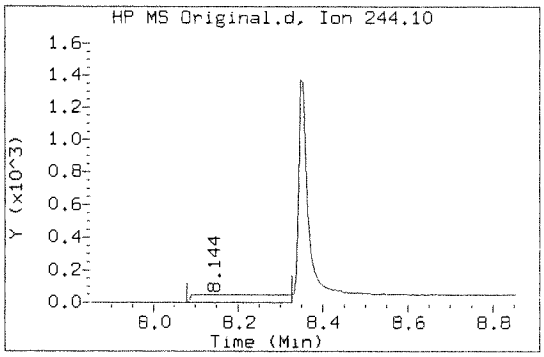


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LabSampID : HS24051276-01

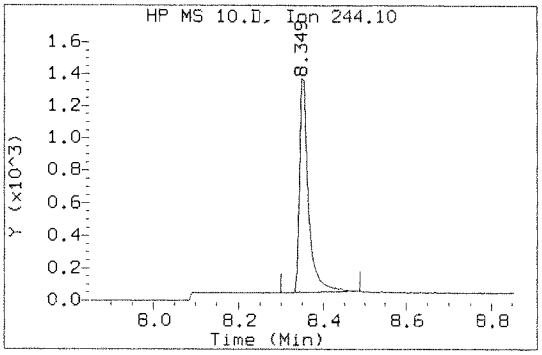
4-Terphenyl-d14 (1718-51-0)

Reason Code:

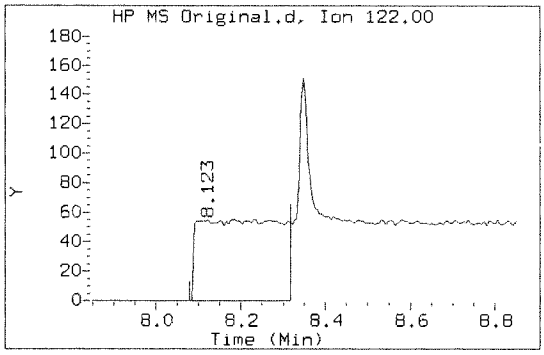
BEFORE
MASS
244.1
AREA
675
HEIGHT
48
31-May-2024
16:32
ALSHS
Server



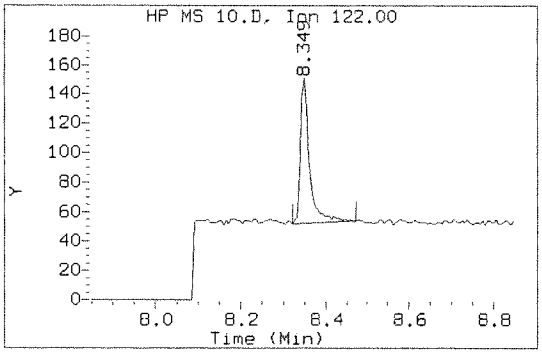
AFTER
MASS
244.1
AREA
1906
HEIGHT
1323
31-May-2024
16:35



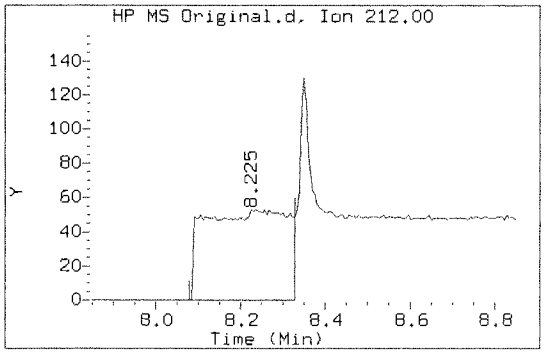
BEFORE
MASS
122
AREA
744
HEIGHT
55
31-May-2024
16:32
ALSHS
Server



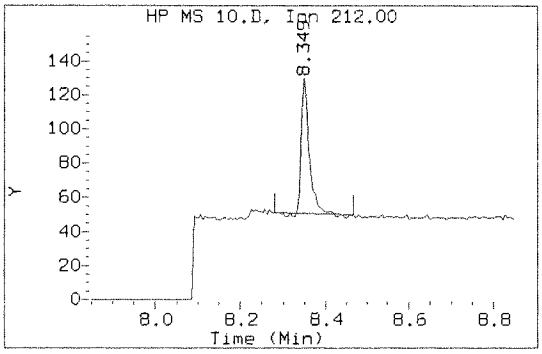
AFTER
MASS
122
AREA
143
HEIGHT
98
31-May-2024
16:35



BEFORE
MASS
212
AREA
716
HEIGHT
53
31-May-2024
16:32
ALSHS
Server



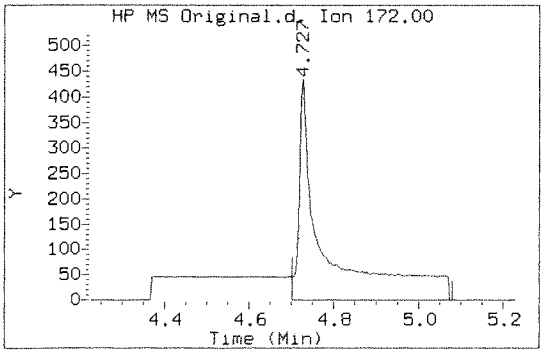
AFTER
MASS
212
AREA
96
HEIGHT
79
31-May-2024
16:35



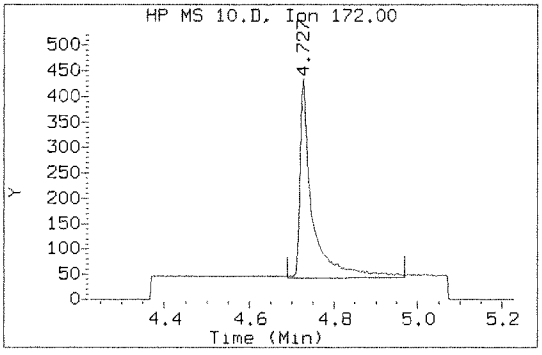
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
1805
HEIGHT
435
31-May-2024
16:32
ALSHS
Server



AFTER
MASS
172
AREA
798
HEIGHT
391
31-May-2024
16:35

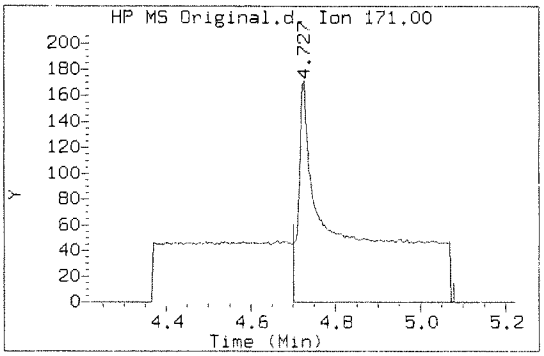


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InstruID : SV6.i
LabSampID : HS24051276-01

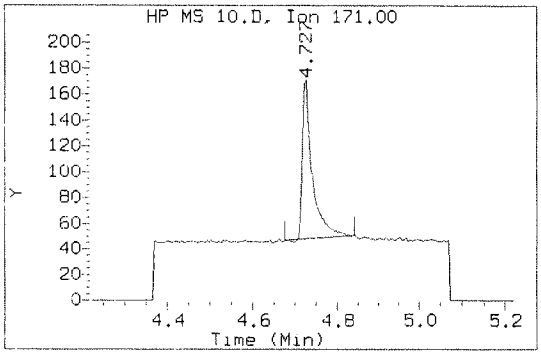
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
171
AREA
1283
HEIGHT
171
31-May-2024
16:32
ALSHS
Server



AFTER
MASS
171
AREA
199
HEIGHT
122
31-May-2024
16:35



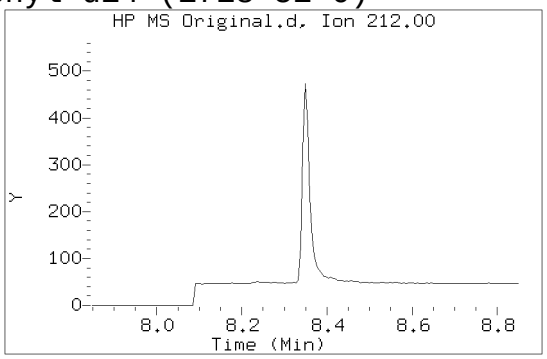
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Inj Date : 31-MAY-2024 15:58
InstruID : SV6.i
LabSampID : LCSD-212606

4-Terphenyl-d14 (1718-51-0)

Reason Code:

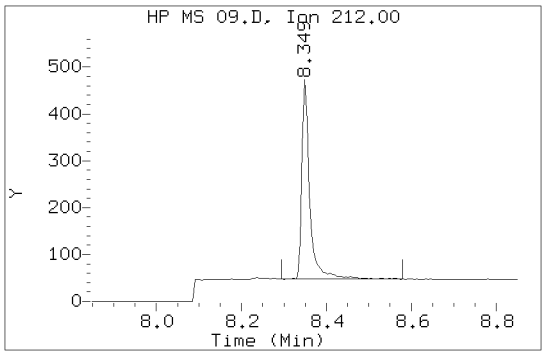
BEFORE

MASS
212
AREA
0
HEIGHT
0
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
212
AREA
536
HEIGHT
425
31-May-2024
16:18

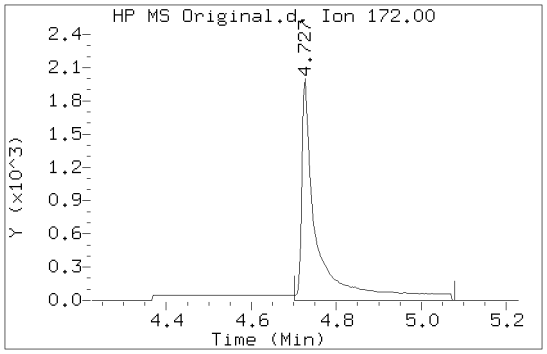


2-Fluorobiphenyl (321-60-8)

Reason Code:

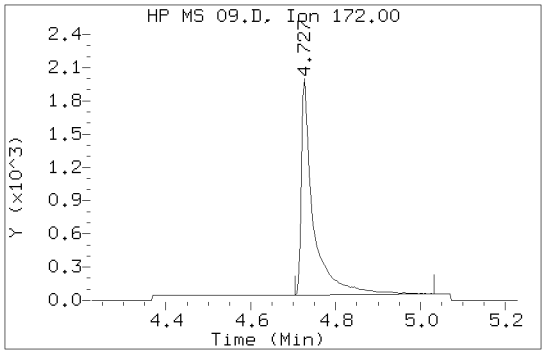
BEFORE

MASS
172
AREA
5072
HEIGHT
2000
31-May-2024
16:15
ALSHS
Server



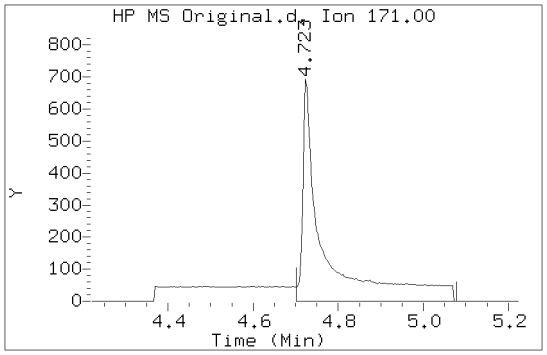
AFTER

MASS
172
AREA
3840
HEIGHT
1951
31-May-2024
16:18



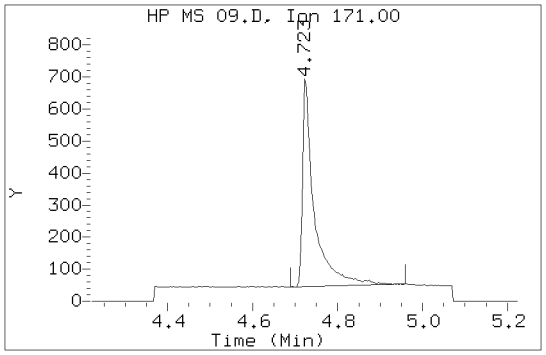
BEFORE

MASS
171
AREA
2365
HEIGHT
694
31-May-2024
16:15
ALSHS
Server



AFTER

MASS
171
AREA
1242
HEIGHT
647
31-May-2024
16:18



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D Page 1
Report Date: 31-May-2024 17:05

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
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Inj Date : 31-MAY-2024 16:38
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 31-May-2024 17:03 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.684	2.684	(1.000)	1927	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	6581	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.135	3.135	(0.841)	1347	0.08000	0.06818(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	4073	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4403	0.08000	0.07072(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	7220	0.10000	(M)
* 182 Chrysene-d12	240	9.462	9.462	(1.000)	5630	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.359	8.359	(0.883)	7669	0.08000	0.06686(M)
* 198 Perylene-d12	264	11.344	11.344	(1.000)	7150	0.10000	
1 1,4-Dioxane	58	1.267	1.267	(0.472)	311	0.08000	0.07535(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D

Date : 31-MAY-2024 16:38

Client ID: 14DX-0.08

Instrument: SV6.i

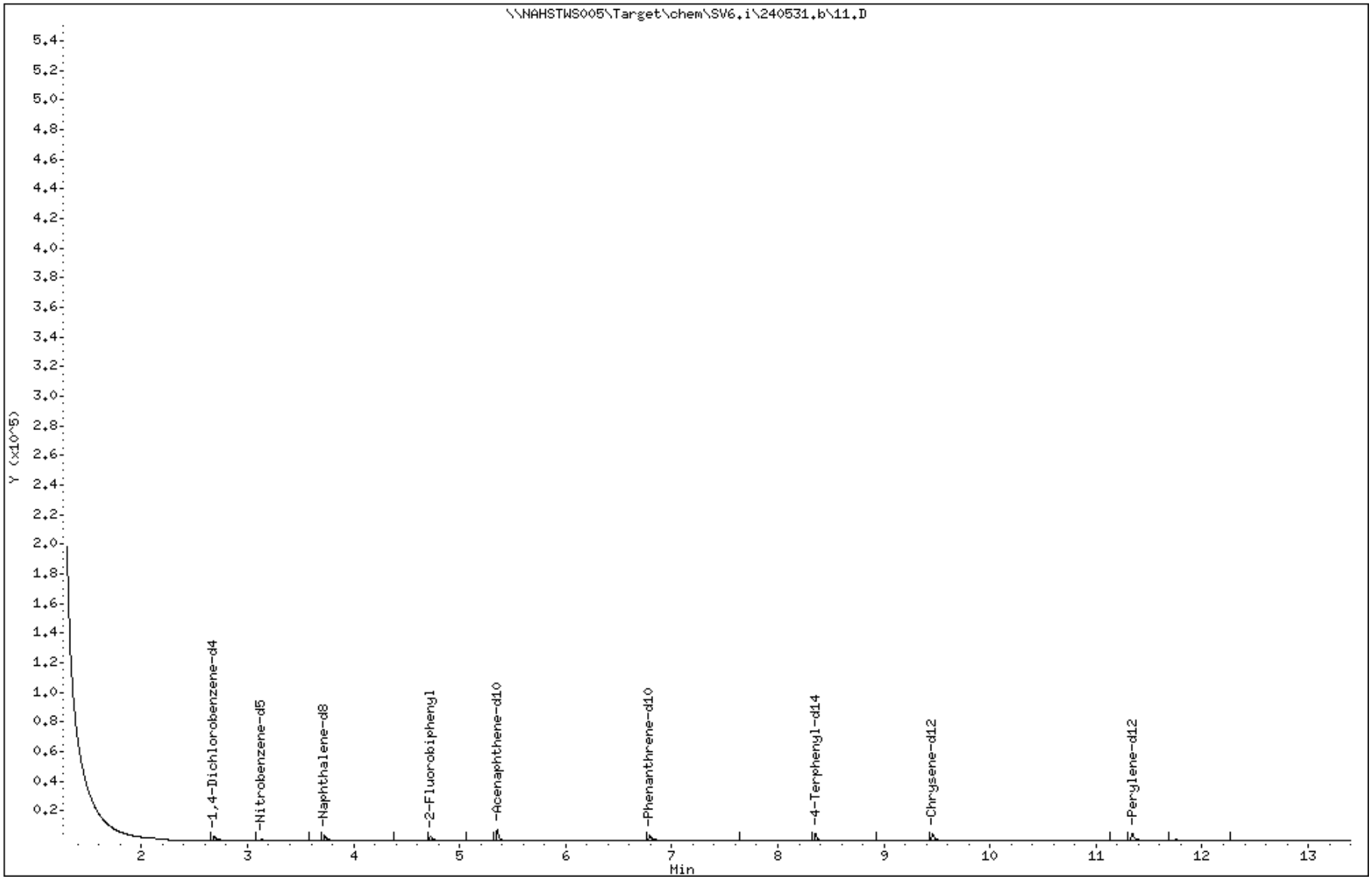
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



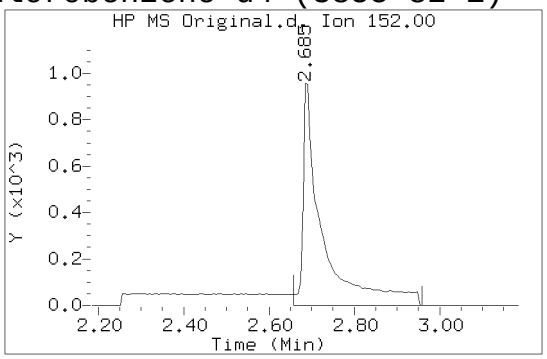
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

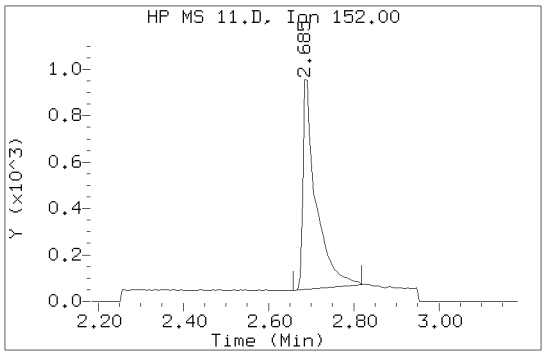
BEFORE

MASS
152
AREA
3006
HEIGHT
955
31-May-2024
16:54
ALSHS
Server



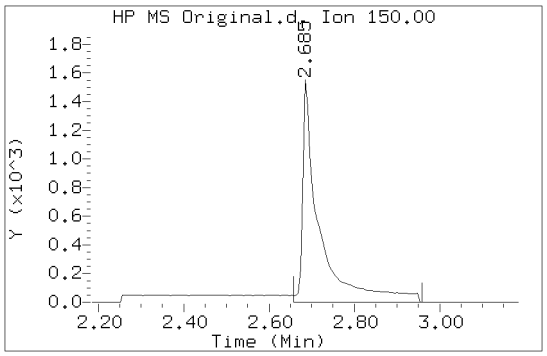
AFTER

MASS
152
AREA
1927
HEIGHT
902
31-May-2024
17:05



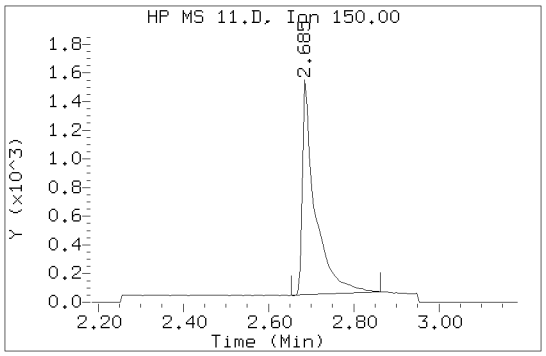
BEFORE

MASS
150
AREA
4217
HEIGHT
1552
31-May-2024
16:54
ALSHS
Server



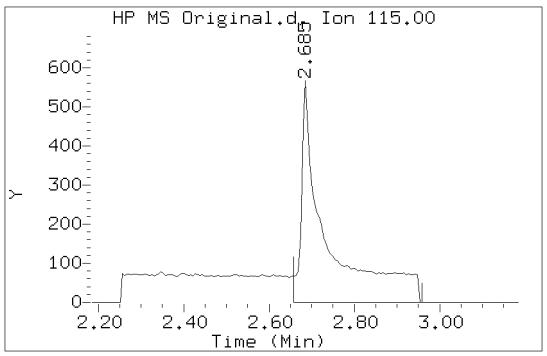
AFTER

MASS
150
AREA
3127
HEIGHT
1500
31-May-2024
17:05



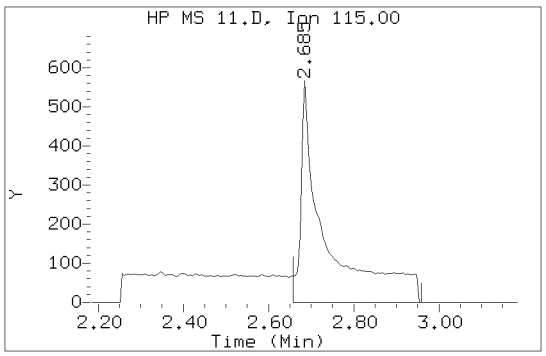
BEFORE

MASS
115
AREA
2271
HEIGHT
567
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
115
AREA
2271
HEIGHT
567
31-May-2024
17:05

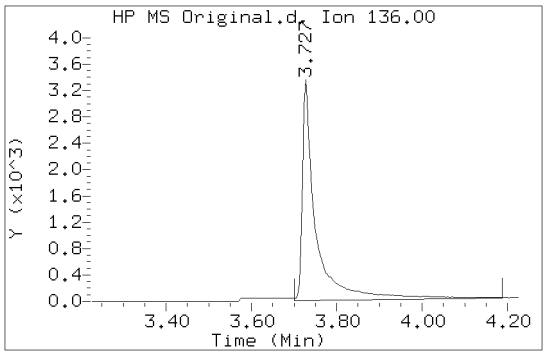


Naphthalene-d8 (1146-65-2)

Reason Code:

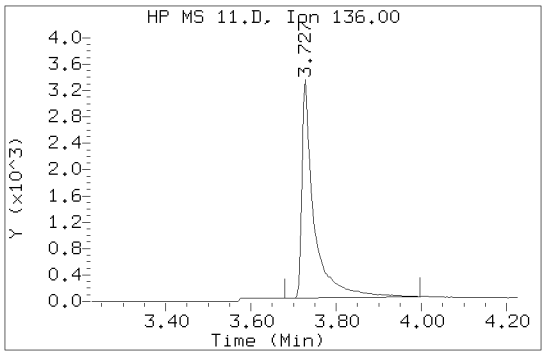
BEFORE

MASS
136
AREA
7531
HEIGHT
3351
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
136
AREA
6581
HEIGHT
3313
31-May-2024
17:05



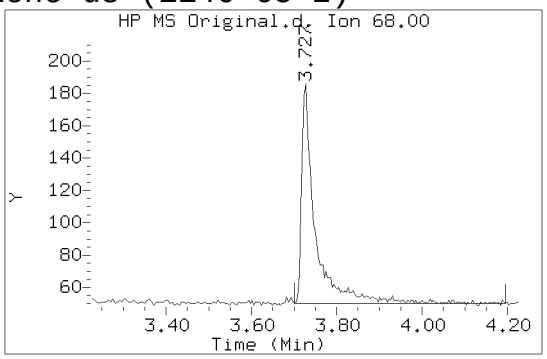
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Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

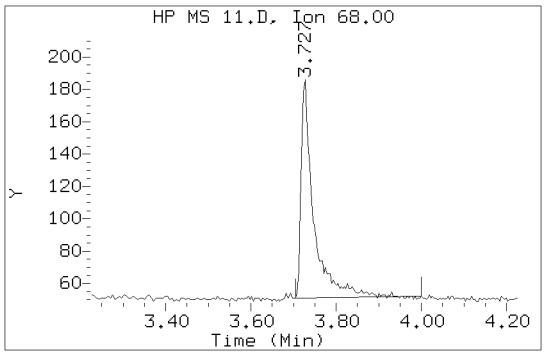
BEFORE

MASS
68
AREA
310
HEIGHT
136
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
68
AREA
275
HEIGHT
134
31-May-2024
17:05

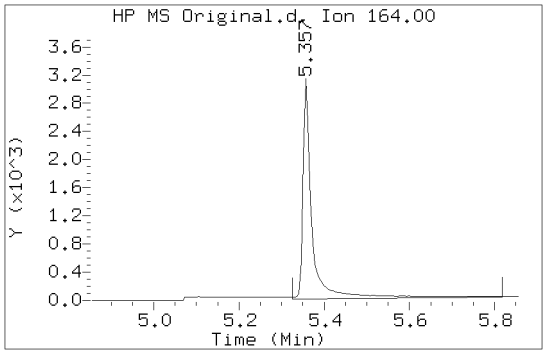


Acenaphthene-d10 (15067-26-2)

Reason Code:

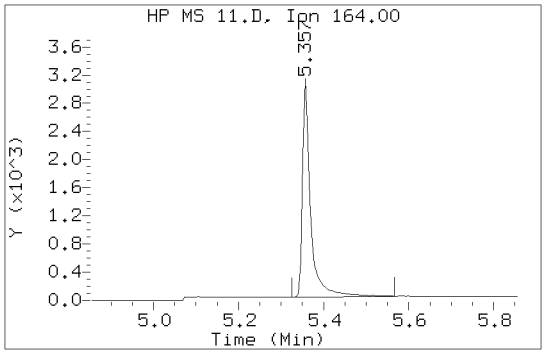
BEFORE

MASS
164
AREA
4716
HEIGHT
3129
31-May-2024
16:54
ALSHS
Server



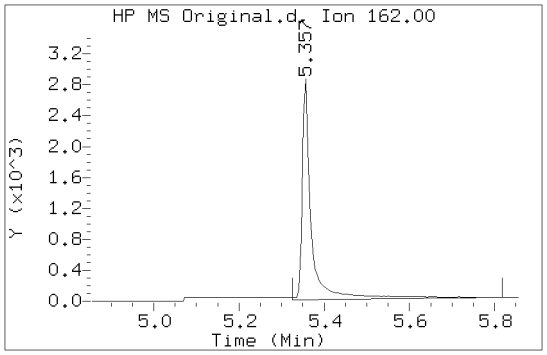
AFTER

MASS
164
AREA
4073
HEIGHT
3098
31-May-2024
17:05



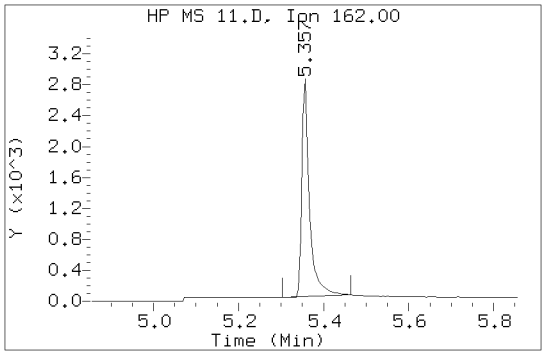
BEFORE

MASS
162
AREA
4375
HEIGHT
2856
31-May-2024
16:54
ALSHS
Server



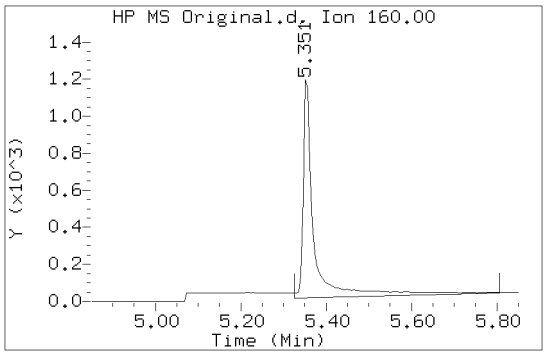
AFTER

MASS
162
AREA
3532
HEIGHT
2816
31-May-2024
17:05



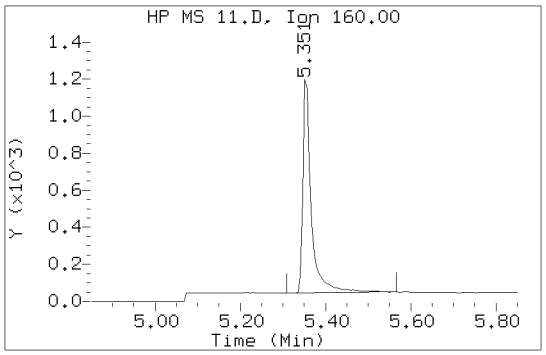
BEFORE

MASS
160
AREA
2113
HEIGHT
1179
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
160
AREA
1588
HEIGHT
1150
31-May-2024
17:05



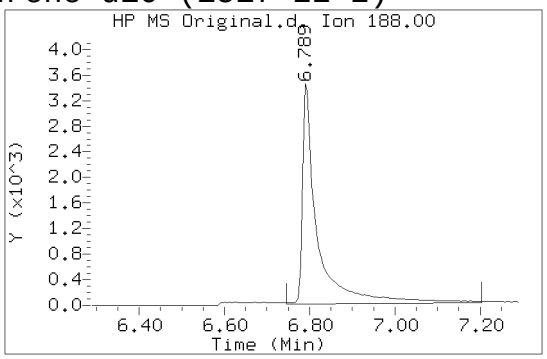
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

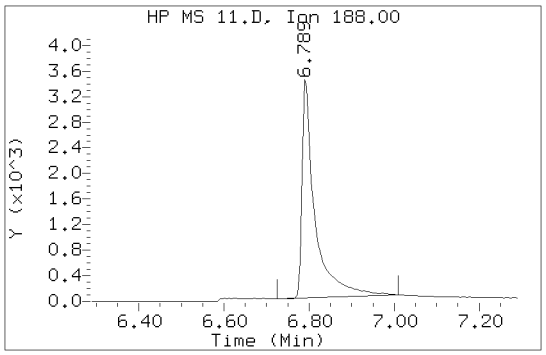
BEFORE

MASS
188
AREA
8457
HEIGHT
3446
31-May-2024
16:54
ALSHS
Server



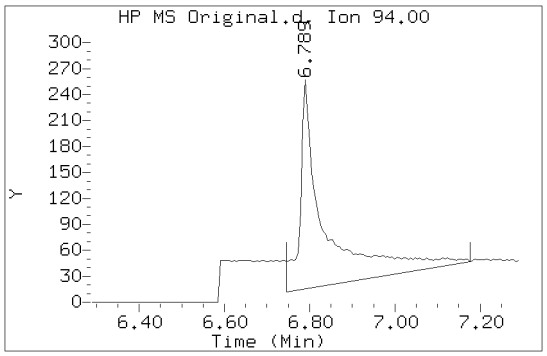
AFTER

MASS
188
AREA
7220
HEIGHT
3407
31-May-2024
17:05



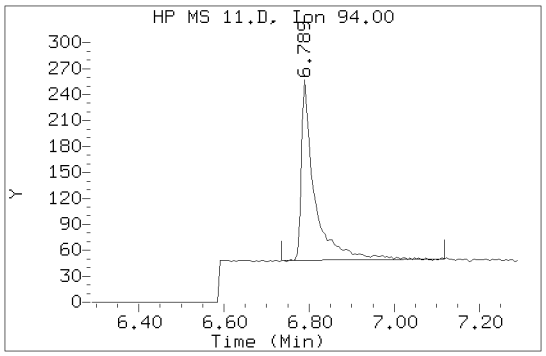
BEFORE

MASS
94
AREA
966
HEIGHT
241
31-May-2024
16:54
ALSHS
Server



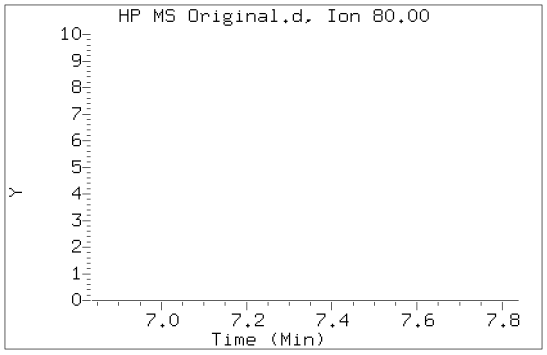
AFTER

MASS
94
AREA
454
HEIGHT
208
31-May-2024
17:05



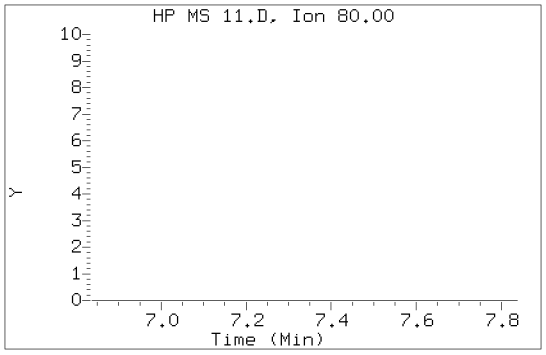
BEFORE

MASS
80
AREA
0
HEIGHT
0
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
31-May-2024
17:05

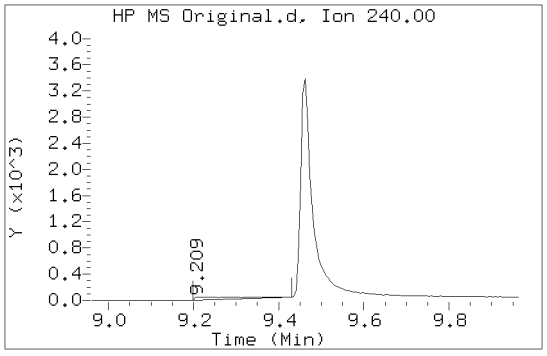


Chrysene-d12 (1719-03-5)

Reason Code:

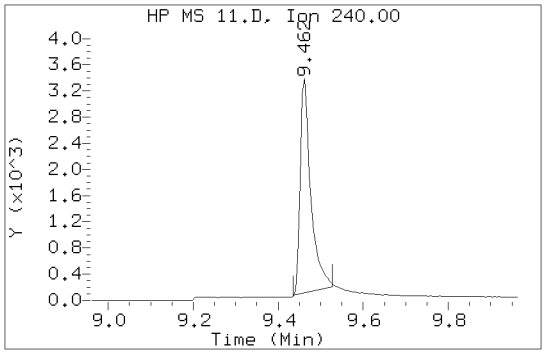
BEFORE

MASS
240
AREA
302
HEIGHT
43
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
240
AREA
5630
HEIGHT
3273
31-May-2024
17:05



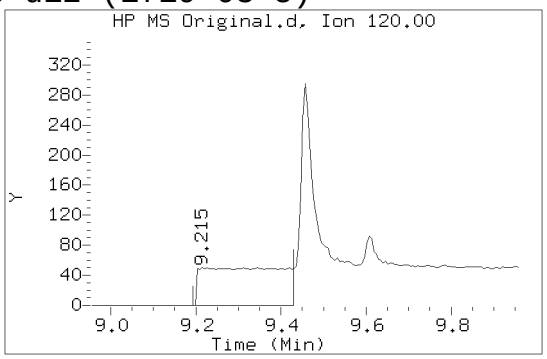
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

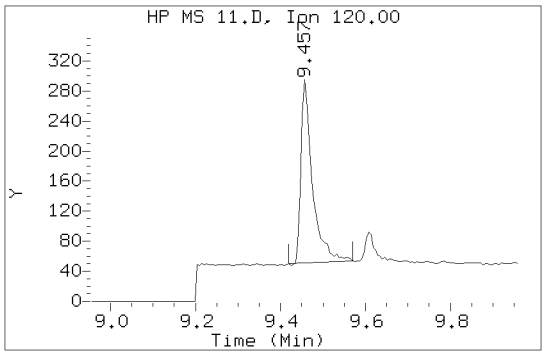
BEFORE

MASS
120
AREA
678
HEIGHT
50
31-May-2024
16:54
ALSHS
Server



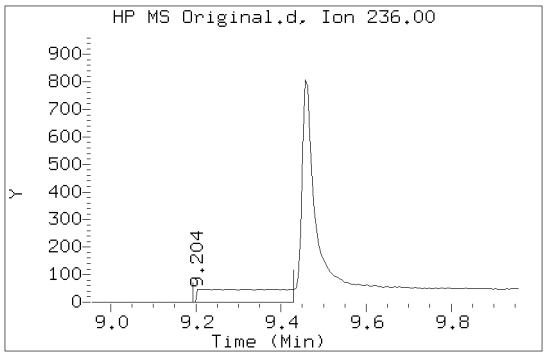
AFTER

MASS
120
AREA
455
HEIGHT
243
31-May-2024
17:05



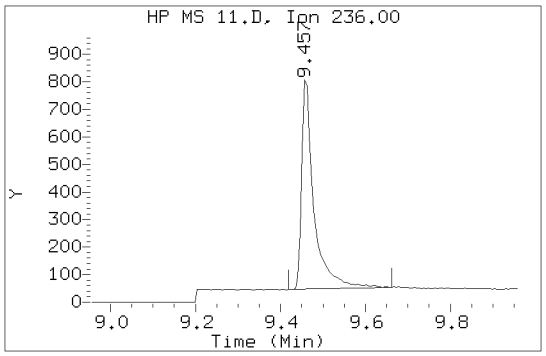
BEFORE

MASS
236
AREA
637
HEIGHT
47
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
236
AREA
1527
HEIGHT
759
31-May-2024
17:05

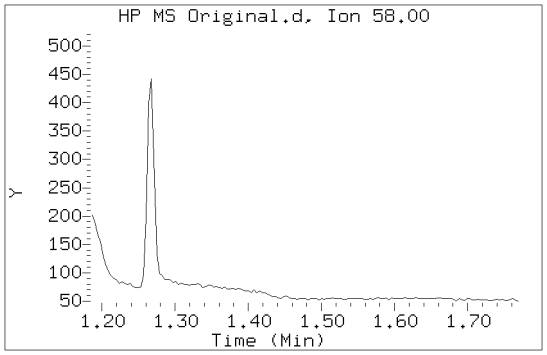


1,4-Dioxane ()

Reason Code:

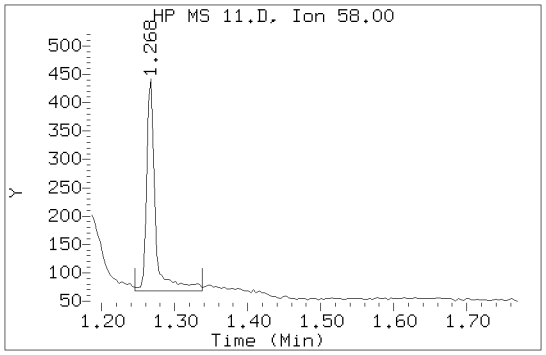
BEFORE

MASS
58
AREA
0
HEIGHT
0
31-May-2024
16:54
ALSHS
Server



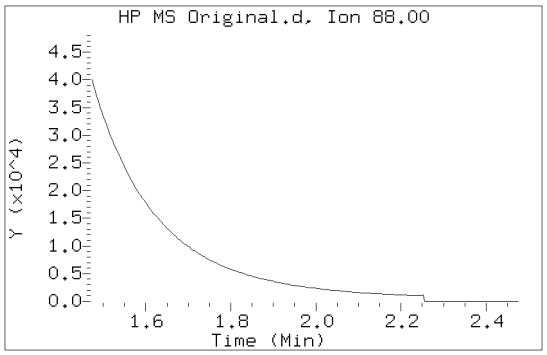
AFTER

MASS
58
AREA
311
HEIGHT
374
31-May-2024
17:05



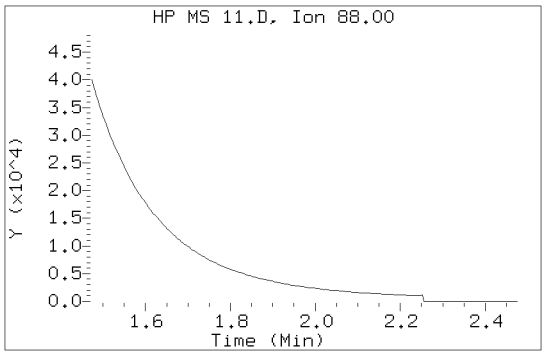
BEFORE

MASS
88
AREA
0
HEIGHT
0
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
31-May-2024
17:05

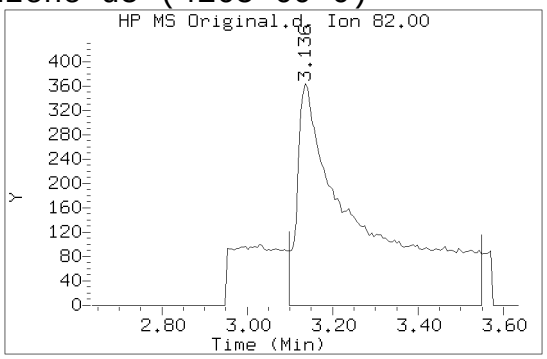


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

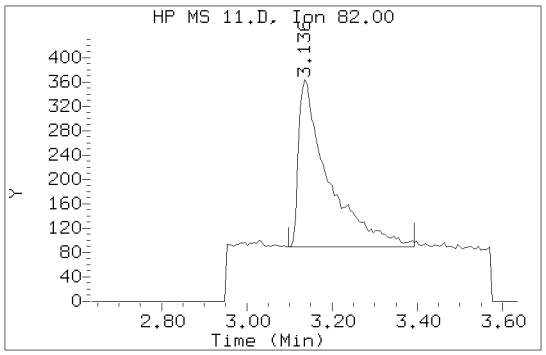
Nitrobenzene-d5 (4165-60-0)

Reason Code:

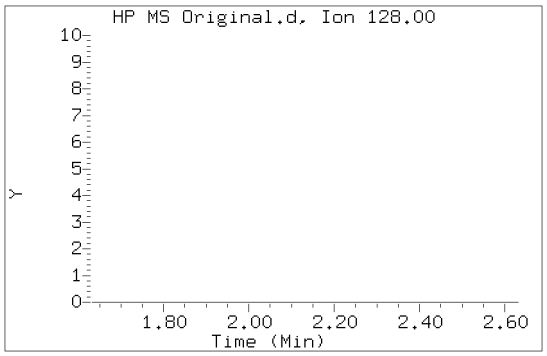
BEFORE
MASS
82
AREA
3798
HEIGHT
364
31-May-2024
16:54
ALSHS
Server



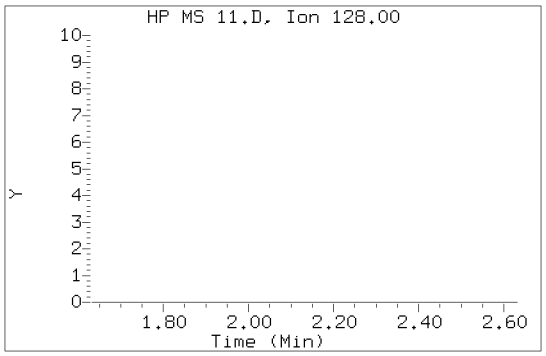
AFTER
MASS
82
AREA
1347
HEIGHT
275
31-May-2024
17:05



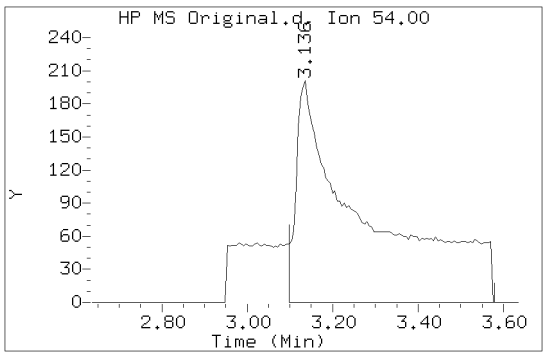
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
16:54
ALSHS
Server



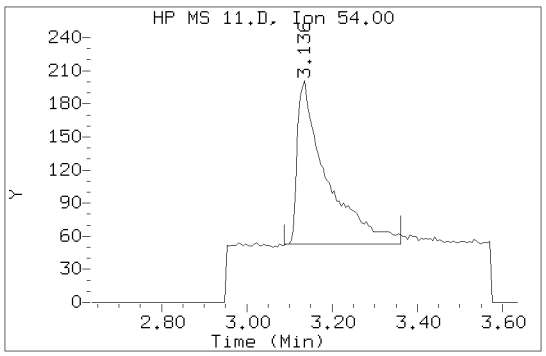
AFTER
MASS
128
AREA
0
HEIGHT
0
31-May-2024
17:05



BEFORE
MASS
54
AREA
2258
HEIGHT
201
31-May-2024
16:54
ALSHS
Server



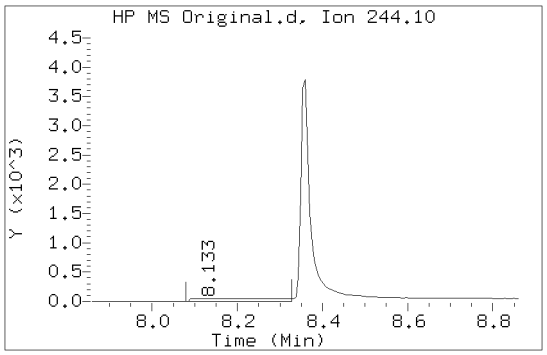
AFTER
MASS
54
AREA
707
HEIGHT
148
31-May-2024
17:05



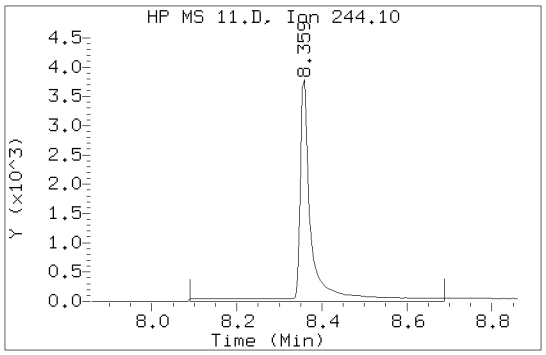
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
654
HEIGHT
46
31-May-2024
16:54
ALSHS
Server



AFTER
MASS
244.1
AREA
7669
HEIGHT
3785
31-May-2024
17:05



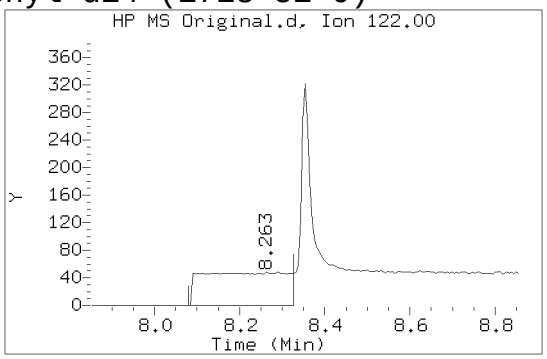
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\11.D
Inj Date : 31-MAY-2024 16:38
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

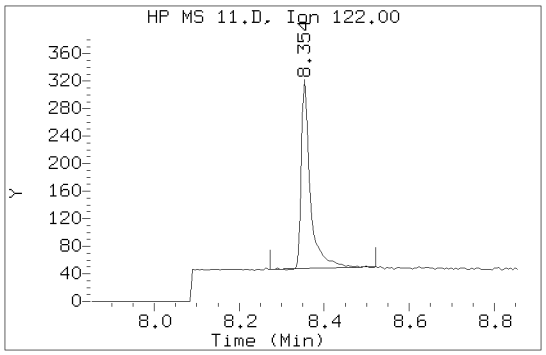
BEFORE

MASS
122
AREA
679
HEIGHT
48
31-May-2024
16:54
ALSHS
Server



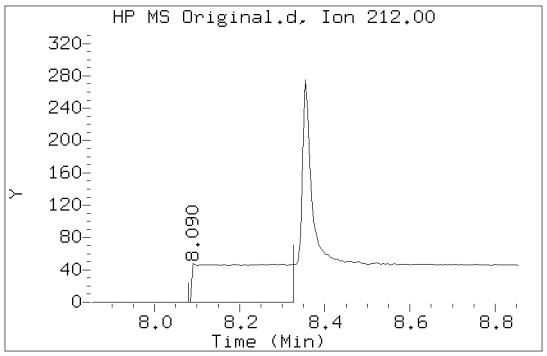
AFTER

MASS
122
AREA
397
HEIGHT
274
31-May-2024
17:05



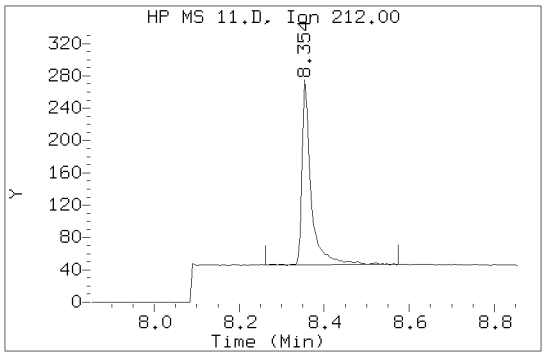
BEFORE

MASS
212
AREA
669
HEIGHT
48
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
212
AREA
335
HEIGHT
228
31-May-2024
17:05

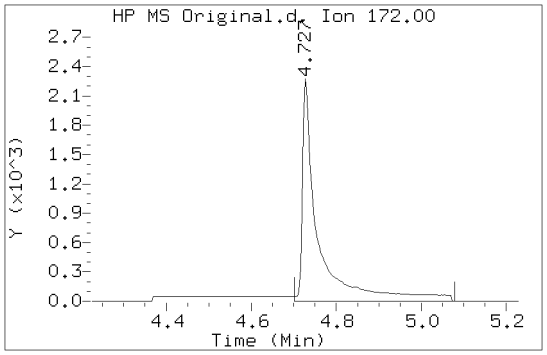


2-Fluorobiphenyl (321-60-8)

Reason Code:

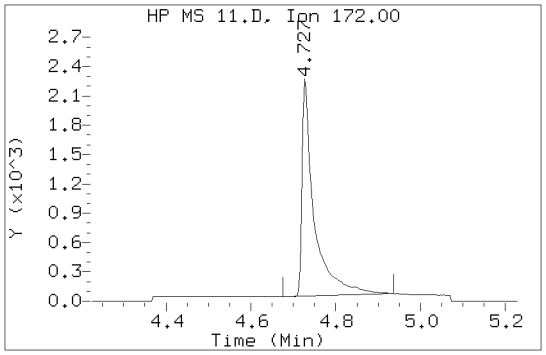
BEFORE

MASS
172
AREA
5890
HEIGHT
2274
31-May-2024
16:54
ALSHS
Server



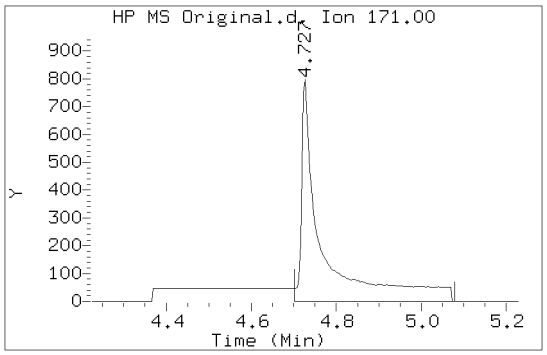
AFTER

MASS
172
AREA
4403
HEIGHT
2221
31-May-2024
17:05



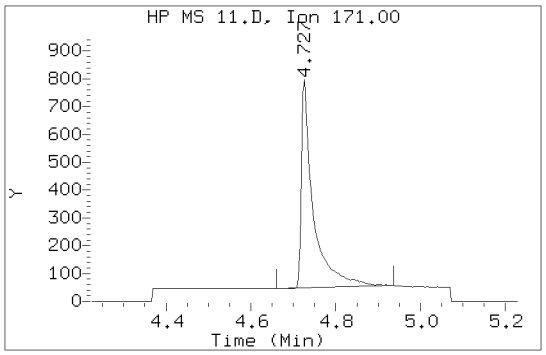
BEFORE

MASS
171
AREA
2640
HEIGHT
797
31-May-2024
16:54
ALSHS
Server



AFTER

MASS
171
AREA
1459
HEIGHT
748
31-May-2024
17:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Lab Smp Id: HS24040667-05
Inj Date : 31-MAY-2024 18:23
Operator : LG Inst ID: SV6.i
Smp Info : HS24040667-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

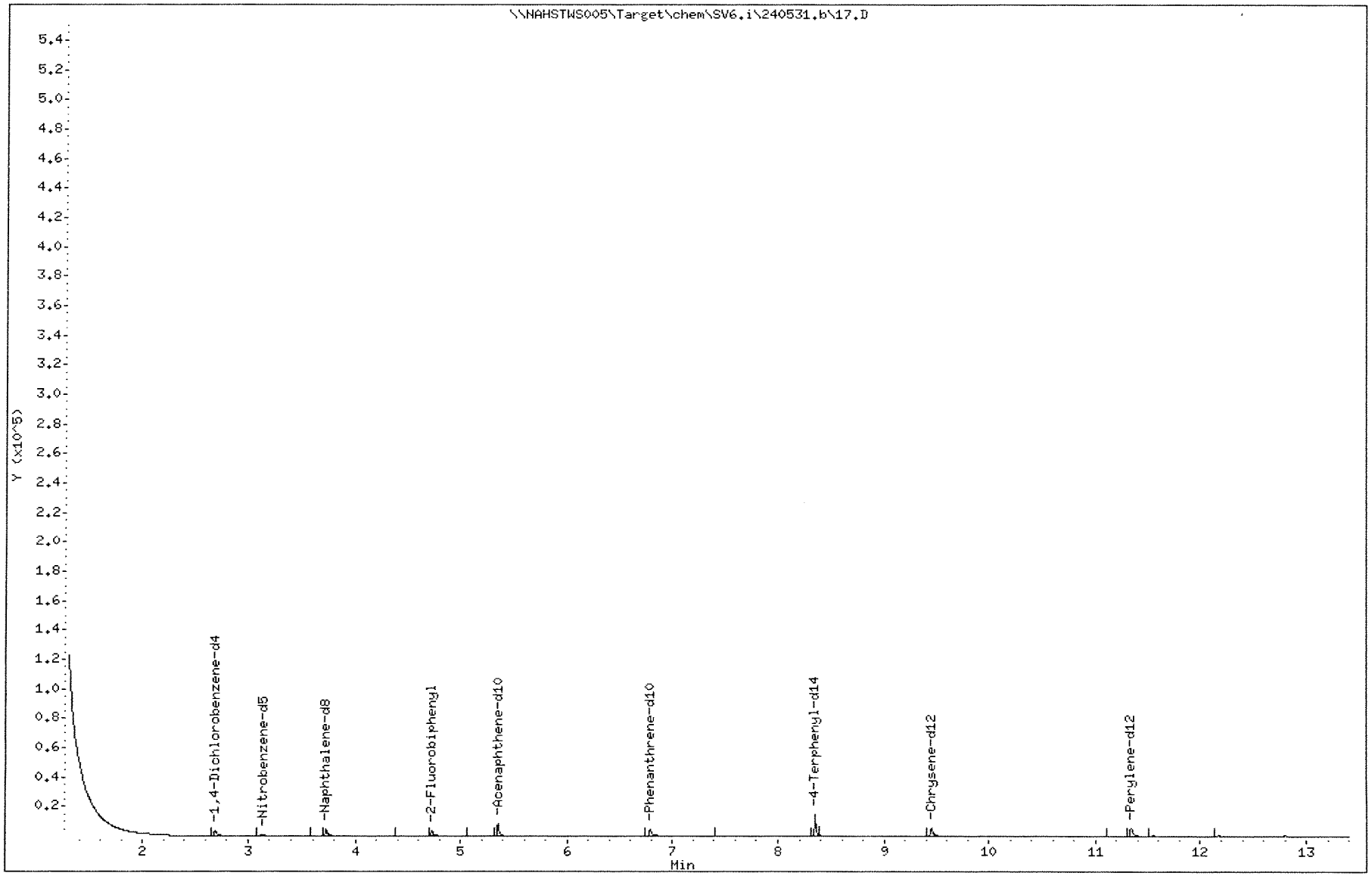
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	3296	0.10000		(aQ)
* 45 Naphthalene-d8	136	3.723	3.727	(1.000)	7556	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.124	3.135	(0.839)	1391	0.06132	0.06132	(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	4786	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	5058	0.06913	0.06913	(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	9170	0.10000		(M)
* 182 Chrysene-d12	240	9.456	9.462	(1.000)	8299	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	15478	0.09155	0.09155	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	8663	0.10000		
1 1,4-Dioxane	58	1.297	1.267	(0.482)	46	0.00652	0.006516	(aMH)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Date : 31-MAY-2024 18:23
Client ID:
Sample Info: HS24040667-05
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D

Date : 31-MAY-2024 18:23

Client ID:

Instrument: SV6.i

Sample Info: HS24040667-05

Purge Volume: 1000.0

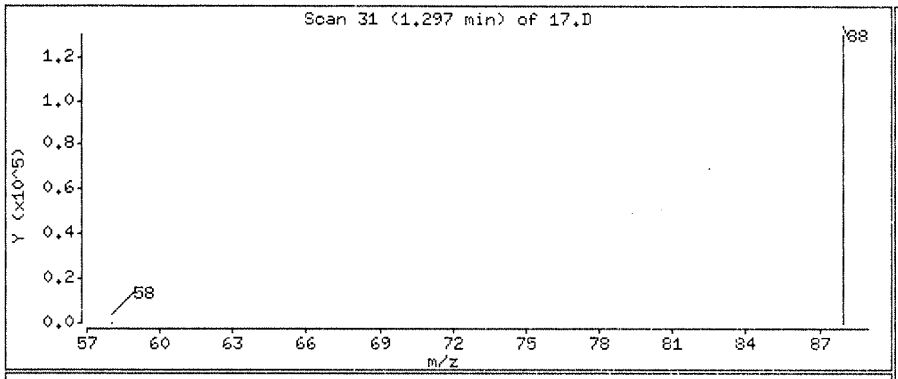
Operator: LG

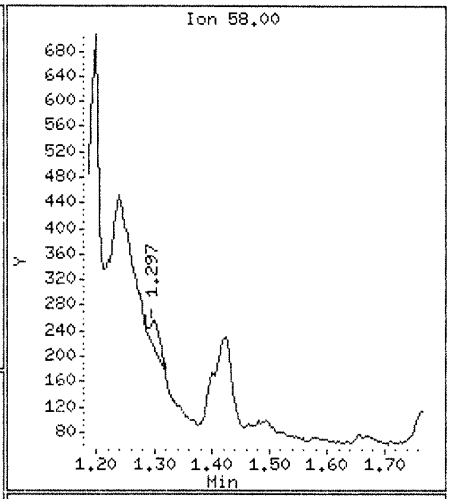
Column phase: RTX-5SIL MS

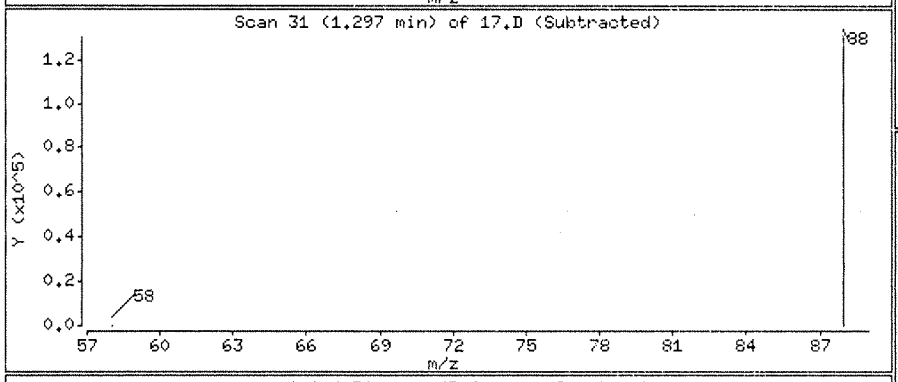
Column diameter: 0.28

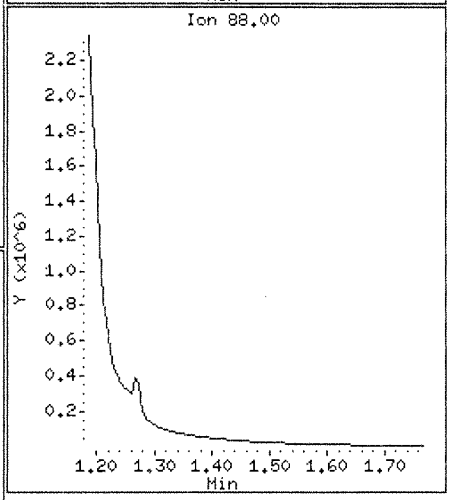
1 1,4-Dioxane

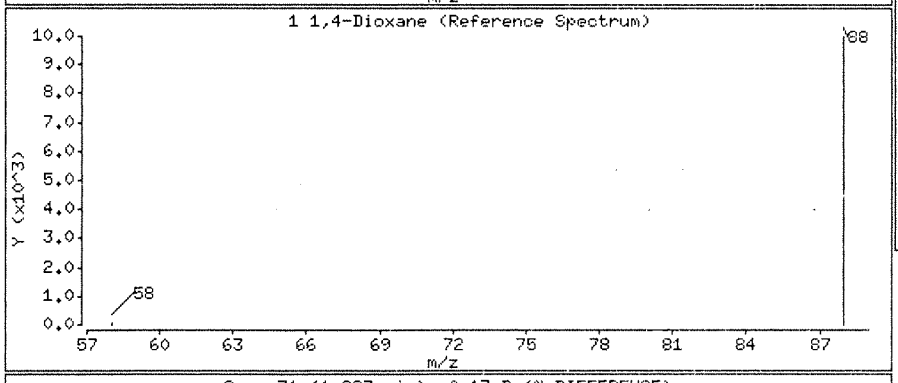
Concentration: 0.006516 ug/L

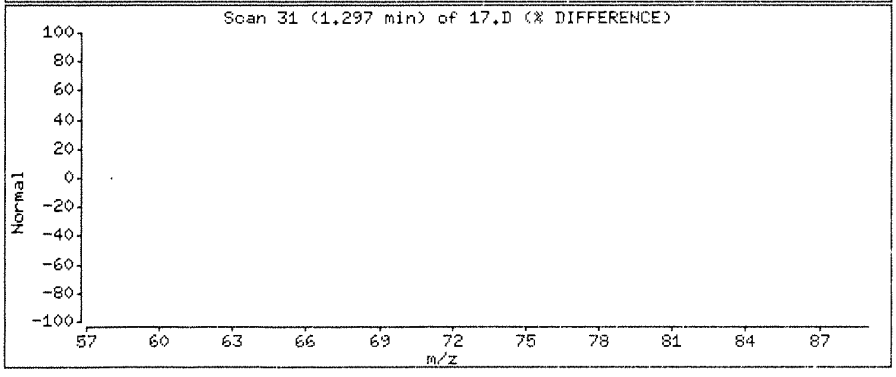










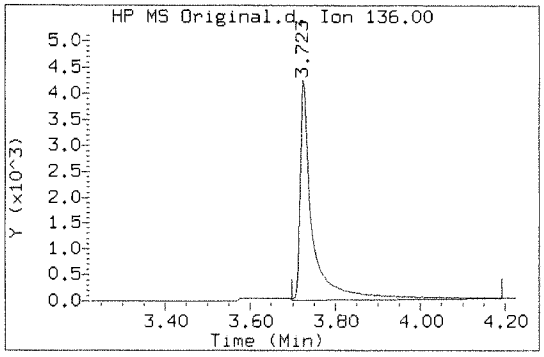


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

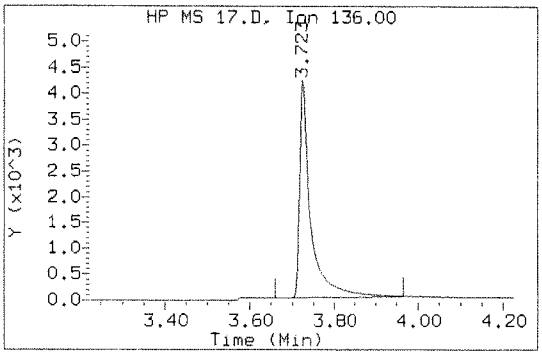
Naphthalene-d8 (1146-65-2)

Reason Code:

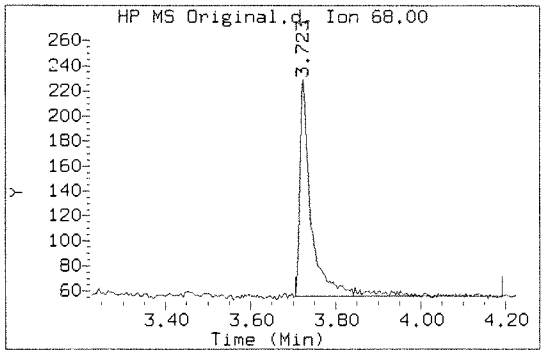
BEFORE
MASS
136
AREA
8664
HEIGHT
4246
31-May-2024
18:39
ALSHS
Server



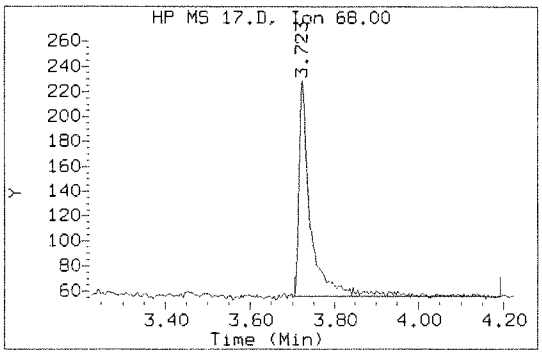
AFTER
MASS
136
AREA
7556
HEIGHT
4201
03-Jun-2024
11:13



BEFORE
MASS
68
AREA
329
HEIGHT
173
31-May-2024
18:39
ALSHS
Server



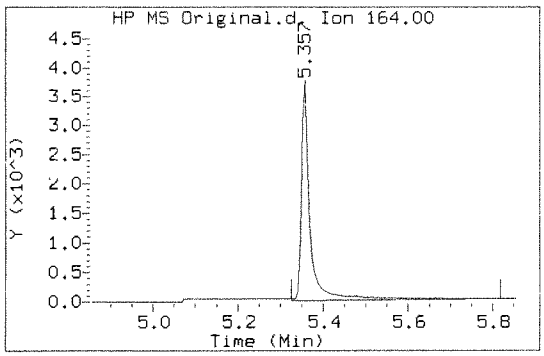
AFTER
MASS
68
AREA
329
HEIGHT
173
03-Jun-2024
11:13



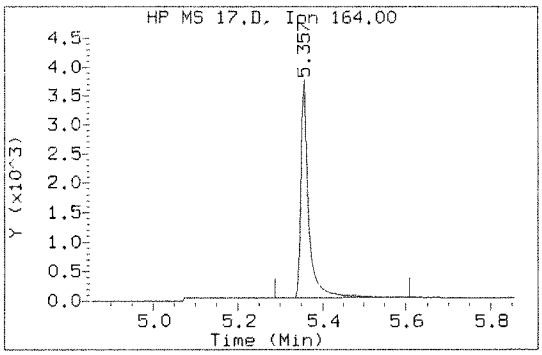
Acenaphthene-d10 (15067-26-2)

Reason Code:

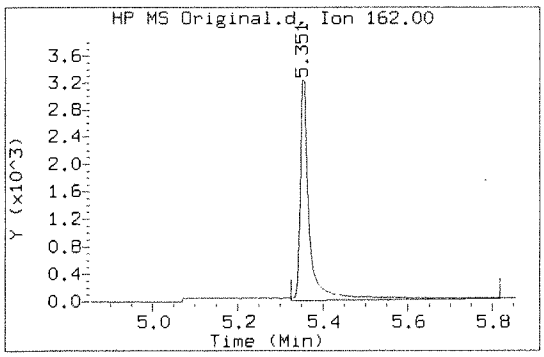
BEFORE
MASS
164
AREA
5436
HEIGHT
3763
31-May-2024
18:39
ALSHS
Server



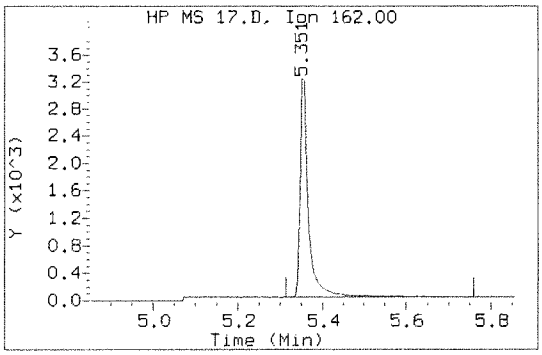
AFTER
MASS
164
AREA
4786
HEIGHT
3729
03-Jun-2024
11:13



BEFORE
MASS
162
AREA
5043
HEIGHT
3225
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
162
AREA
4437
HEIGHT
3192
03-Jun-2024
11:13

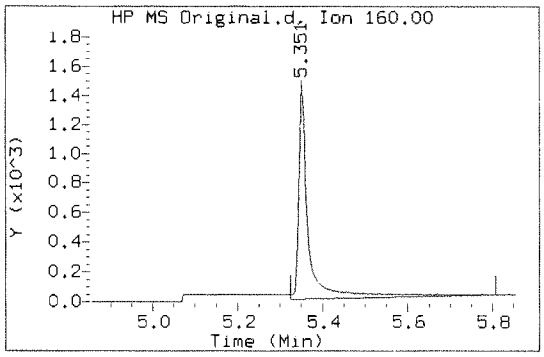


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

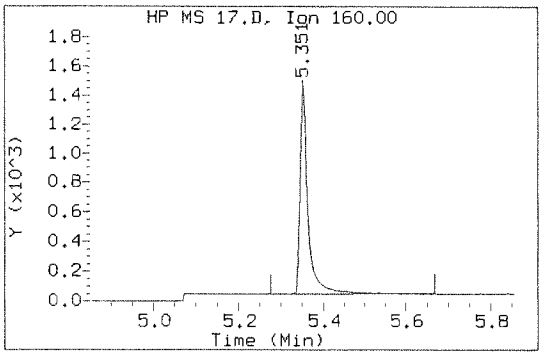
Acenaphthene-d10 (15067-26-2)

Reason Code:

BEFORE
MASS
160
AREA
2391
HEIGHT
1489
31-May-2024
18:39
ALSHS
Server



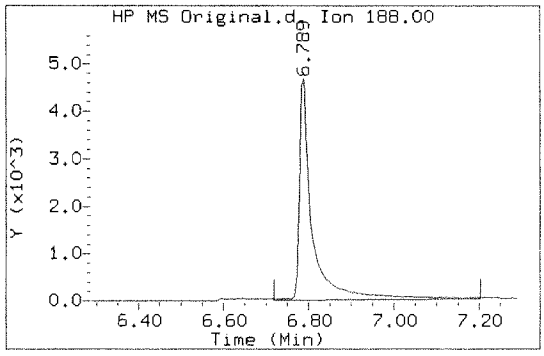
AFTER
MASS
160
AREA
1861
HEIGHT
1459
03-Jun-2024
11:13



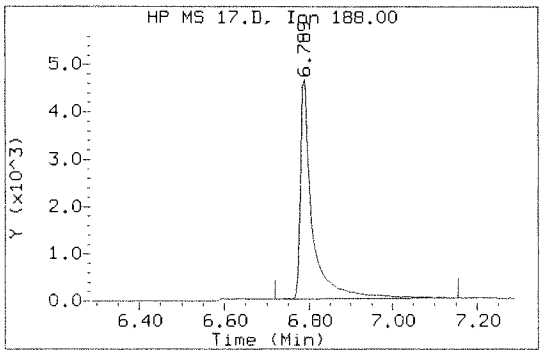
Phenanthrene-d10 (1517-22-2)

Reason Code:

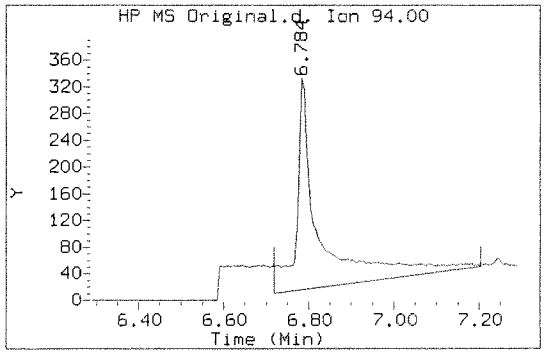
BEFORE
MASS
188
AREA
10001
HEIGHT
4672
31-May-2024
18:39
ALSHS
Server



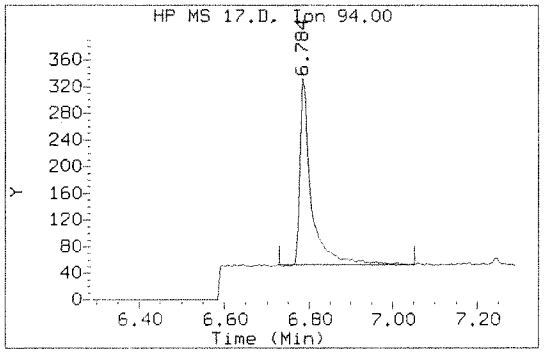
AFTER
MASS
188
AREA
9170
HEIGHT
4641
03-Jun-2024
11:13



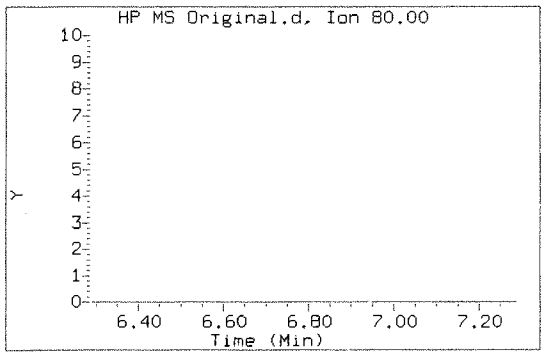
BEFORE
MASS
94
AREA
1180
HEIGHT
316
31-May-2024
18:39
ALSHS
Server



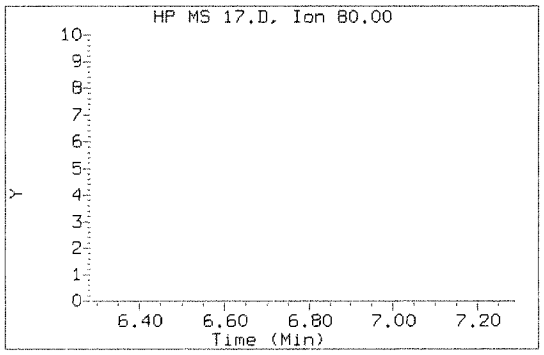
AFTER
MASS
94
AREA
528
HEIGHT
280
03-Jun-2024
11:13



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
80
AREA
0
HEIGHT
0
03-Jun-2024
11:13

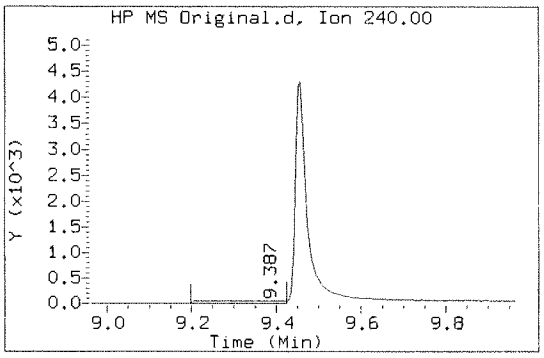


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

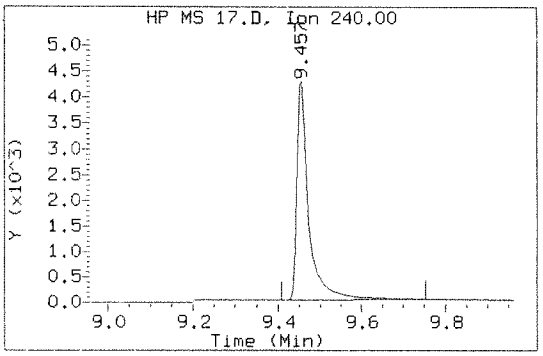
Chrysene-d12 (1719-03-5)

Reason Code:

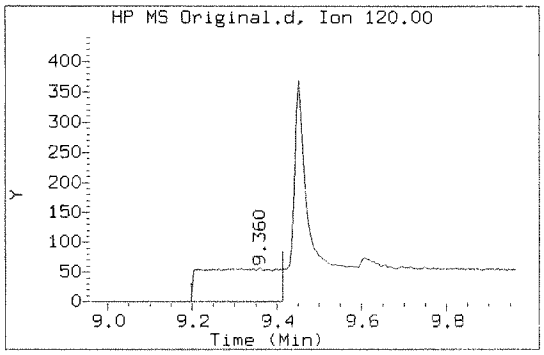
BEFORE
MASS
240
AREA
692
HEIGHT
54
31-May-2024
18:39
ALSHS
Server



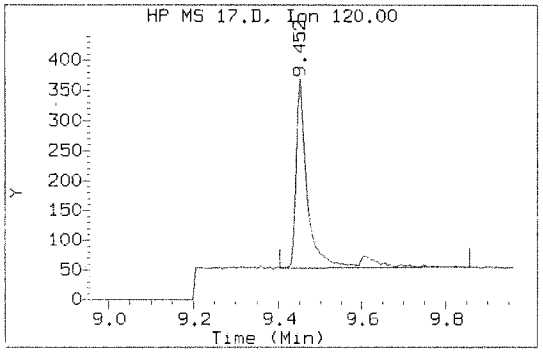
AFTER
MASS
240
AREA
8299
HEIGHT
4261
03-Jun-2024
11:13



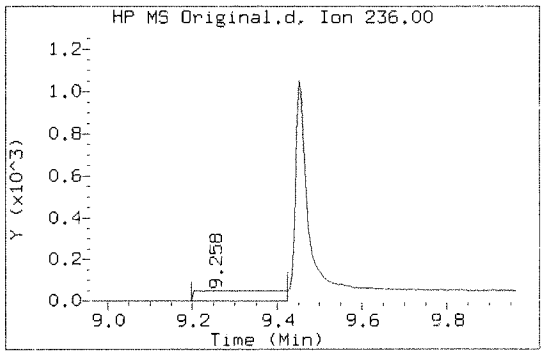
BEFORE
MASS
120
AREA
696
HEIGHT
58
31-May-2024
18:39
ALSHS
Server



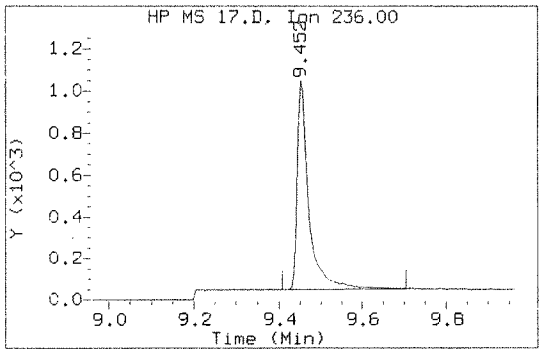
AFTER
MASS
120
AREA
629
HEIGHT
315
03-Jun-2024
11:13



BEFORE
MASS
236
AREA
657
HEIGHT
50
31-May-2024
18:39
ALSHS
Server



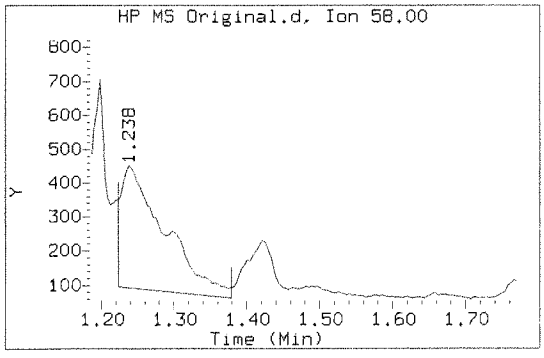
AFTER
MASS
236
AREA
1922
HEIGHT
1003
03-Jun-2024
11:13



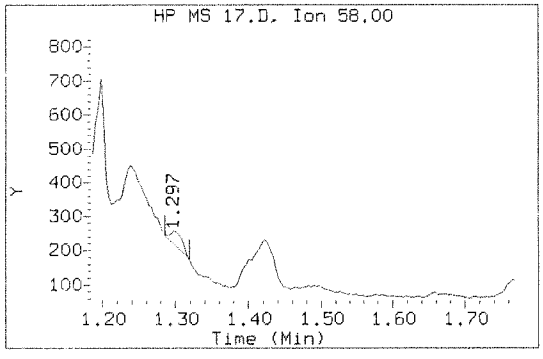
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
1524
HEIGHT
360
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
58
AREA
46
HEIGHT
35
03-Jun-2024
11:13

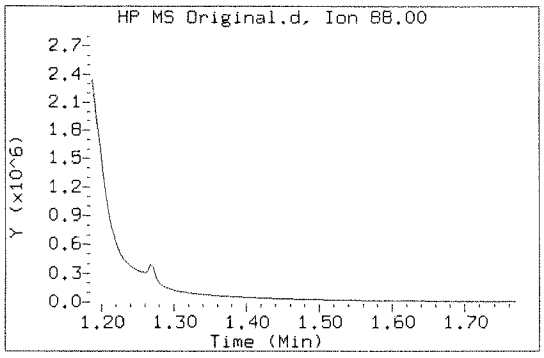


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Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

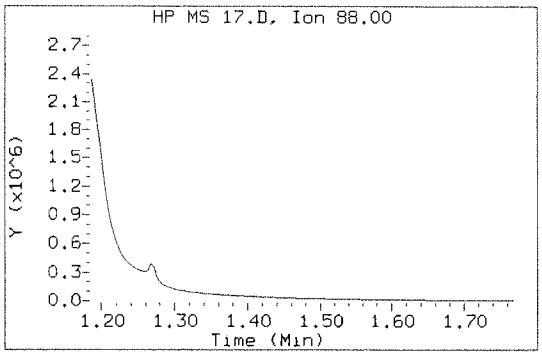
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
18:39
ALSHS
Server



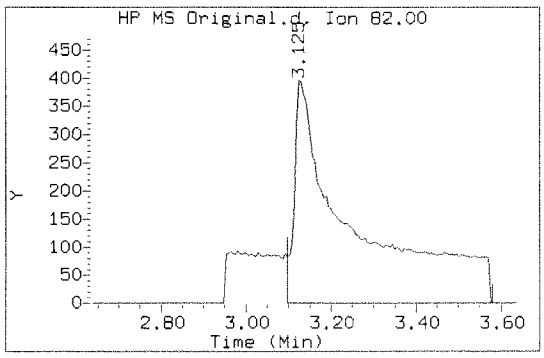
AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jun-2024
11:13



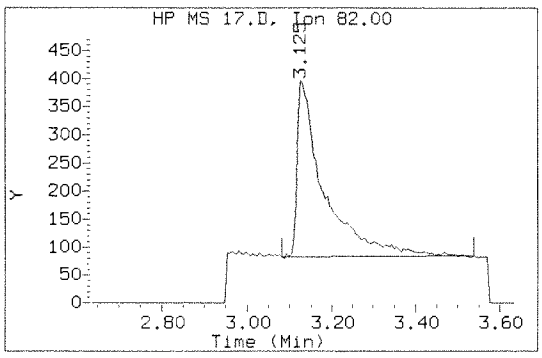
Nitrobenzene-d5 (4165-60-0)

Reason Code:

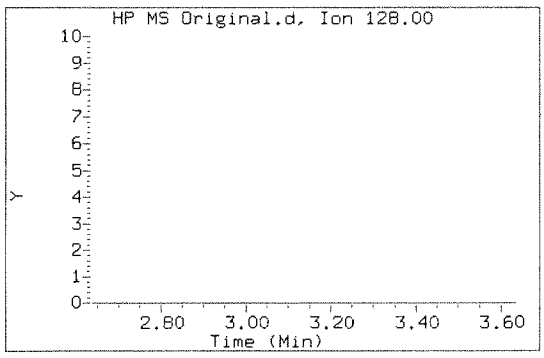
BEFORE
MASS
82
AREA
3783
HEIGHT
396
31-May-2024
18:39
ALSHS
Server



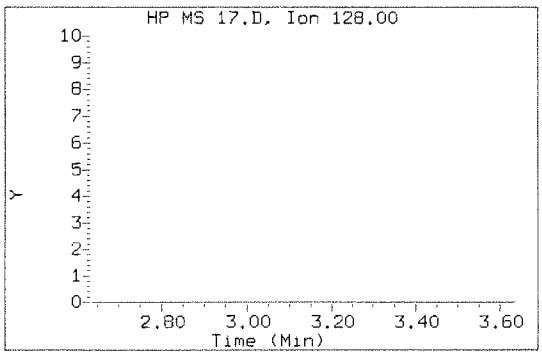
AFTER
MASS
82
AREA
1391
HEIGHT
312
03-Jun-2024
11:13



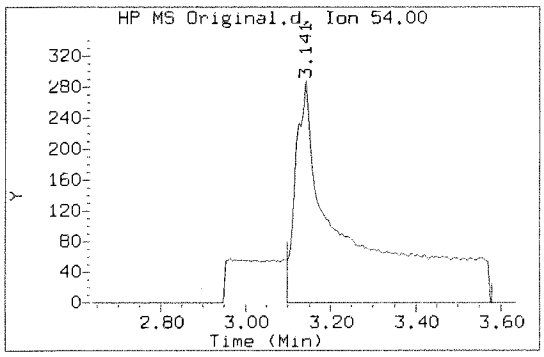
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
18:39
ALSHS
Server



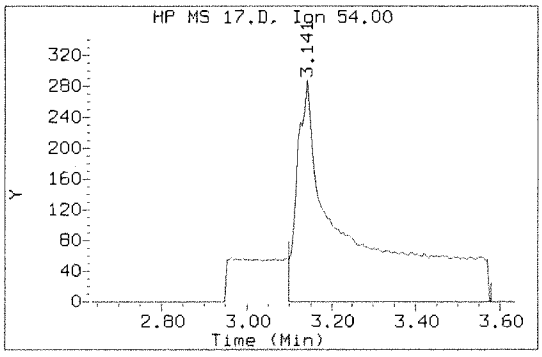
AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
11:13



BEFORE
MASS
54
AREA
2477
HEIGHT
288
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
54
AREA
2477
HEIGHT
288
03-Jun-2024
11:13

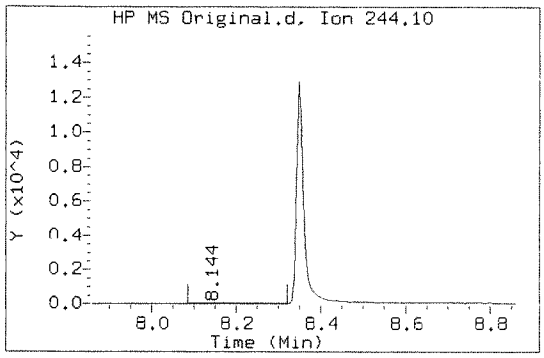


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Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

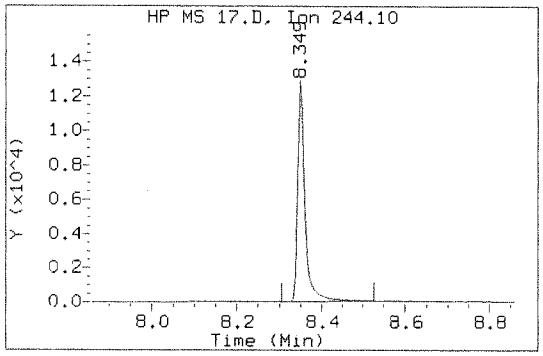
4-Terphenyl-d14 (1718-51-0)

Reason Code:

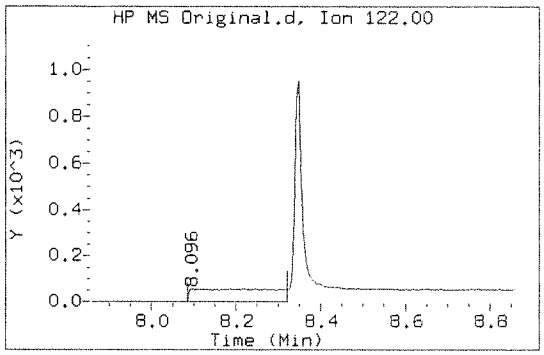
BEFORE
MASS
244.1
AREA
661
HEIGHT
48
31-May-2024
18:39
ALSHS
Server



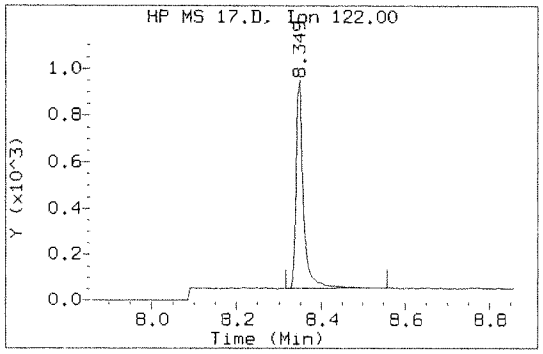
AFTER
MASS
244.1
AREA
15478
HEIGHT
12870
03-Jun-2024
11:13



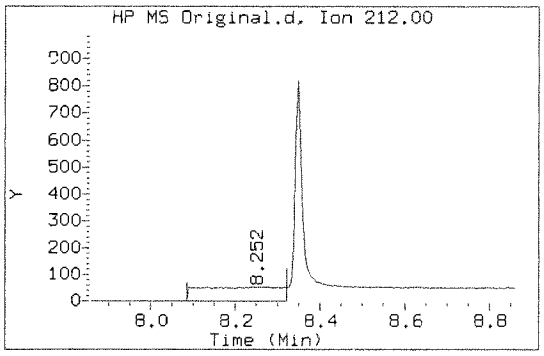
BEFORE
MASS
122
AREA
740
HEIGHT
54
31-May-2024
18:39
ALSHS
Server



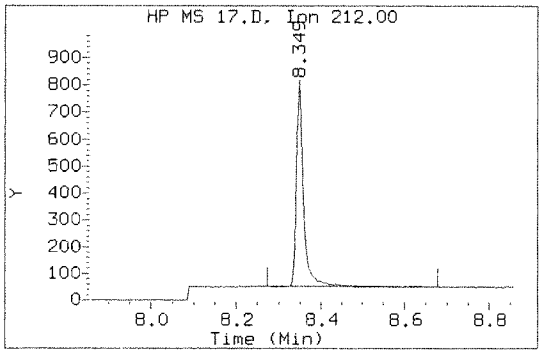
AFTER
MASS
122
AREA
1099
HEIGHT
898
03-Jun-2024
11:13



BEFORE
MASS
212
AREA
709
HEIGHT
52
31-May-2024
18:39
ALSHS
Server



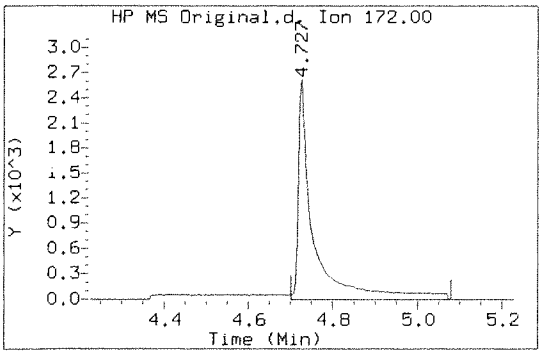
AFTER
MASS
212
AREA
910
HEIGHT
768
03-Jun-2024
11:13



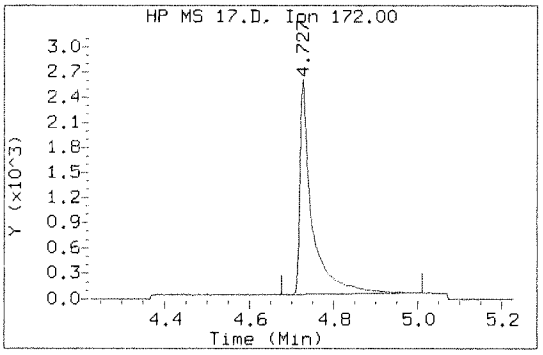
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
6533
HEIGHT
2619
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
172
AREA
5058
HEIGHT
2563
03-Jun-2024
11:13

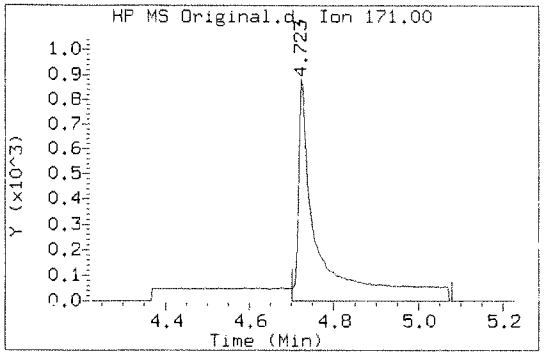


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\17.D
Inj Date : 31-MAY-2024 18:23
InstruID : SV6.i
LabSampID : HS24040667-05

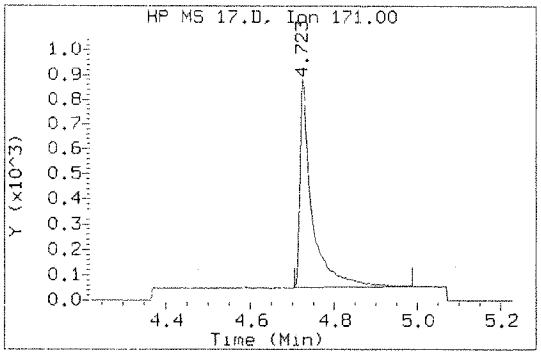
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
171
AREA
2879
HEIGHT
883
31-May-2024
18:39
ALSHS
Server



AFTER
MASS
171
AREA
1654
HEIGHT
831
03-Jun-2024
11:13



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\18.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\18.D
Lab Smp Id: HS24051428-01
Inj Date : 31-MAY-2024 18:40
Operator : LG Inst ID: SV6.i
Smp Info : HS24051428-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2181	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	7153	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.130	3.135	(0.840)	1150	0.05355	0.05355	(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	4394	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	3841	0.05718	0.05718	(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	8482	0.10000		(M)
* 182 Chrysene-d12	240	9.456	9.462	(1.000)	7699	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	9711	0.06192	0.06192	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	7914	0.10000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\18.D

Date : 31-MAY-2024 18:40

Client ID:

Instrument: SV6.i

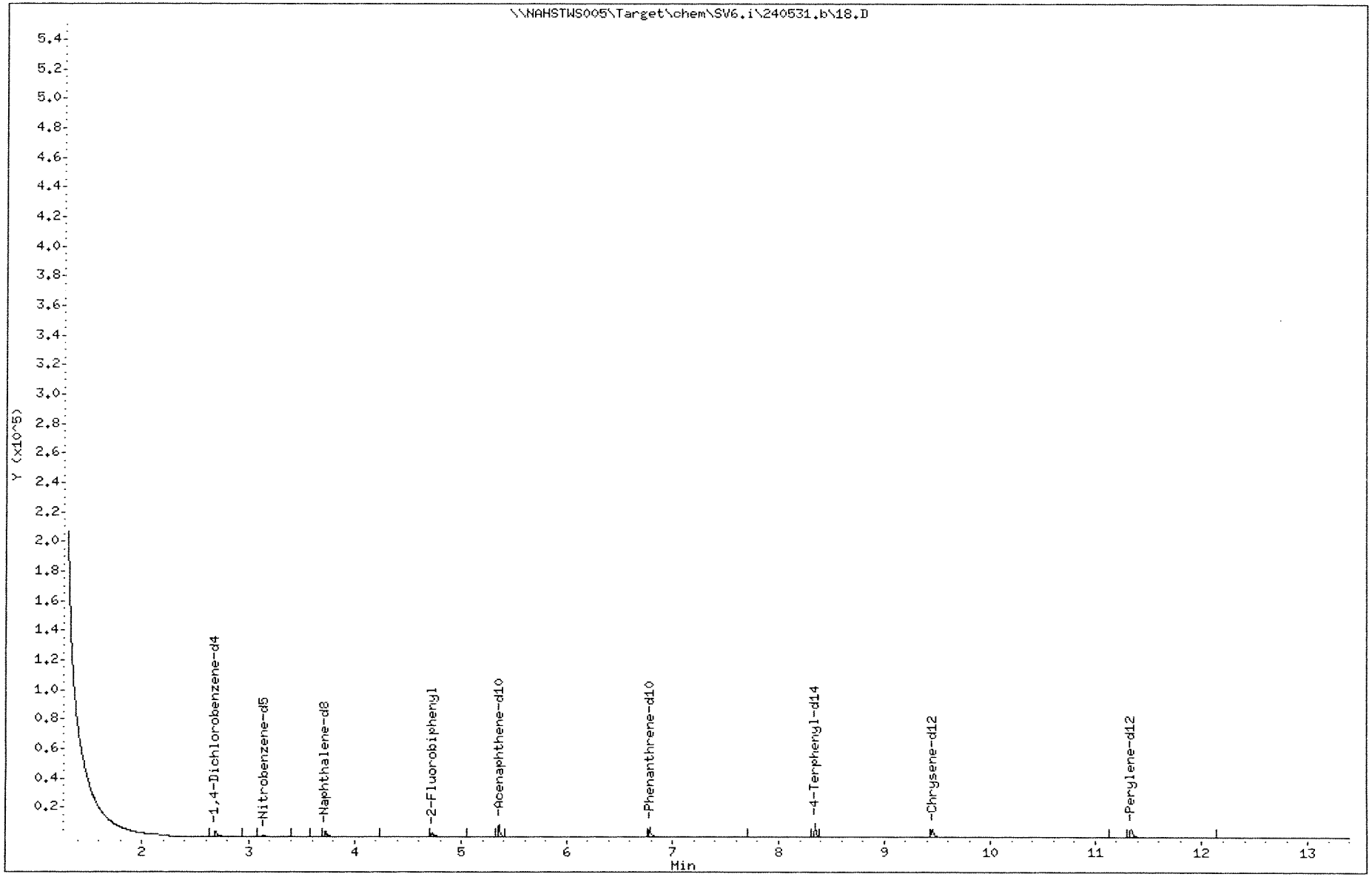
Sample Info: HS24051428-01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

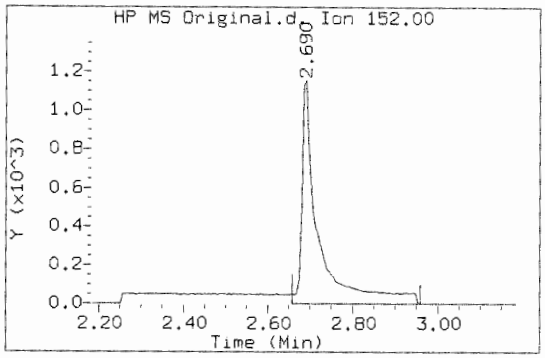


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Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

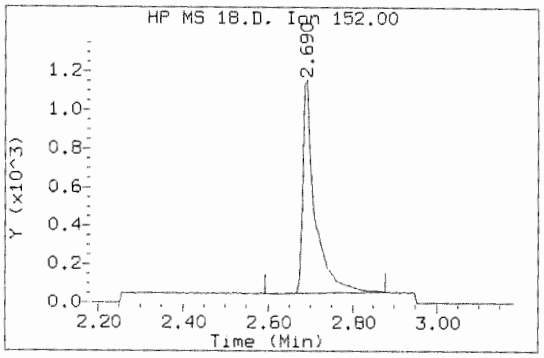
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

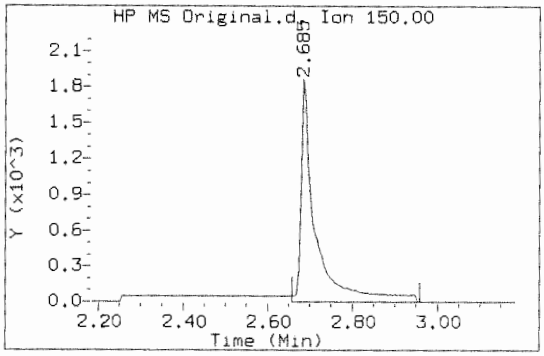
BEFORE
MASS
152
AREA
3149
HEIGHT
1157
31-May-2024
18:55
ALSHS
Server



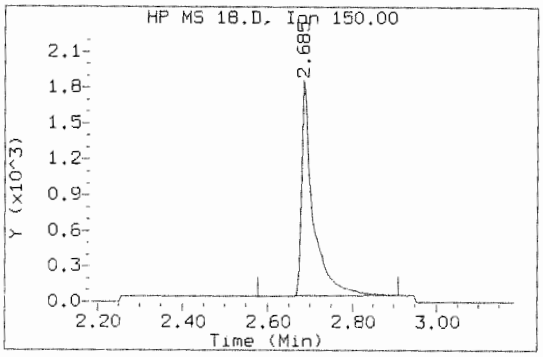
AFTER
MASS
152
AREA
2181
HEIGHT
1105
03-Jun-2024
11:14



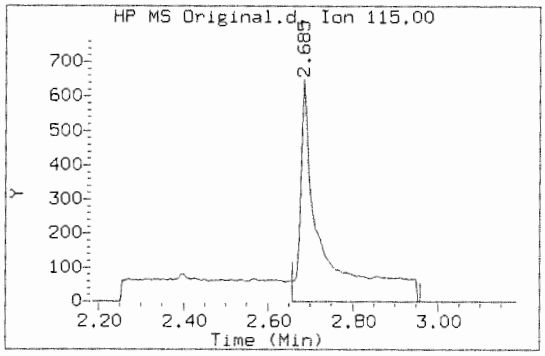
BEFORE
MASS
150
AREA
4445
HEIGHT
1865
31-May-2024
18:55
ALSHS
Server



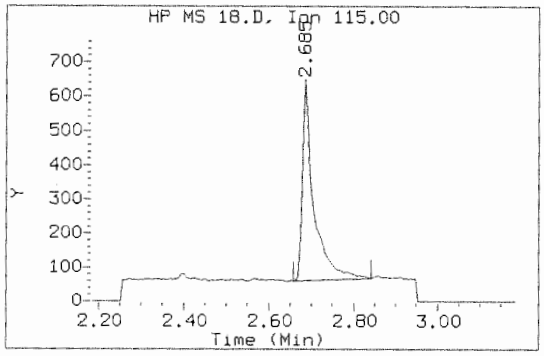
AFTER
MASS
150
AREA
3434
HEIGHT
1812
03-Jun-2024
11:14



BEFORE
MASS
115
AREA
2272
HEIGHT
649
31-May-2024
18:55
ALSHS
Server



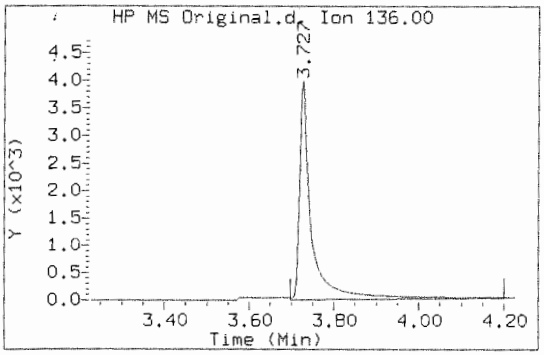
AFTER
MASS
115
AREA
1101
HEIGHT
587
03-Jun-2024
11:14



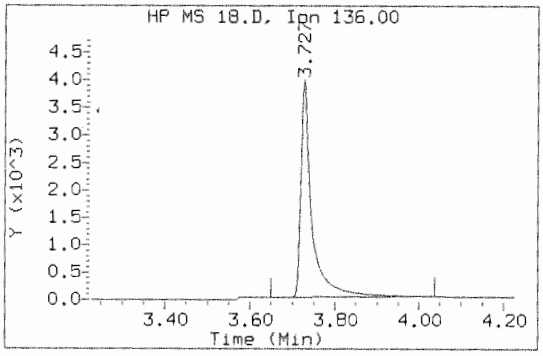
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8002
HEIGHT
3984
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
136
AREA
7153
HEIGHT
3945
03-Jun-2024
11:14

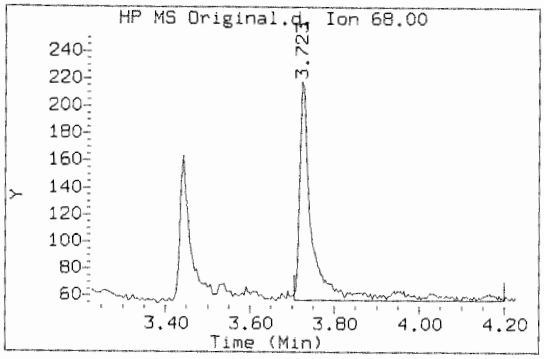


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Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

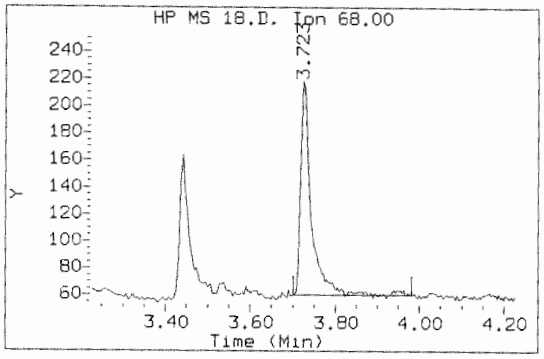
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
363
HEIGHT
161
31-May-2024
18:55
ALSHS
Server



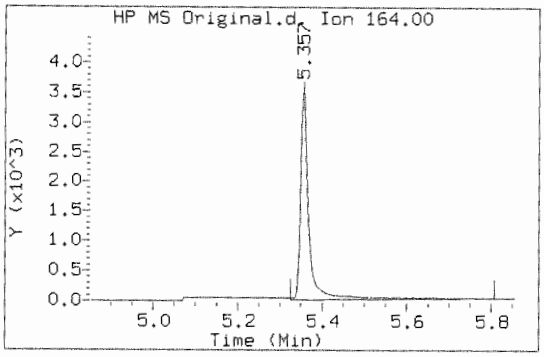
AFTER
MASS
68
AREA
281
HEIGHT
158
03-Jun-2024
11:14



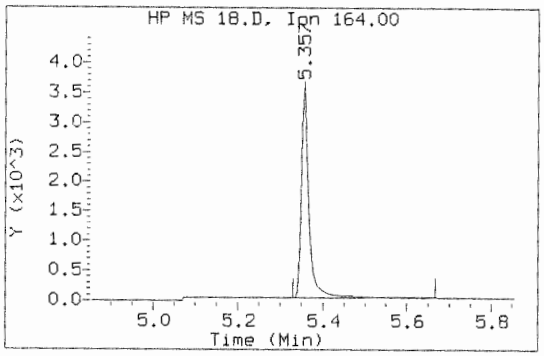
Acenaphthene-d10 (15067-26-2)

Reason Code:

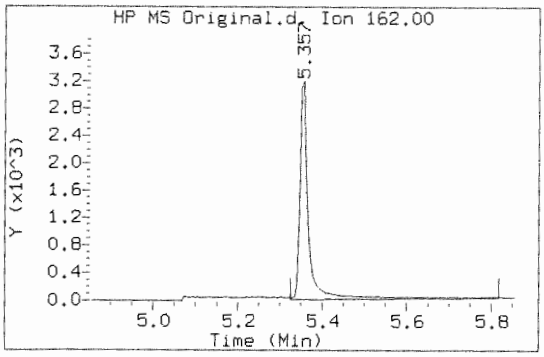
BEFORE
MASS
164
AREA
5025
HEIGHT
3666
31-May-2024
18:55
ALSHS
Server



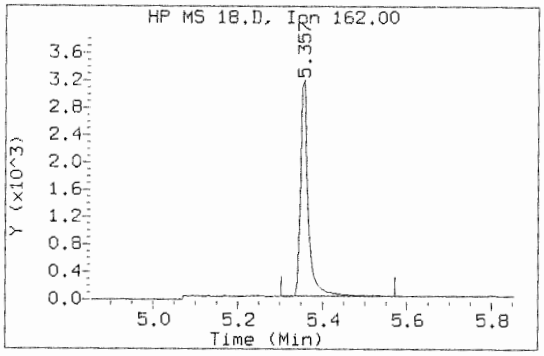
AFTER
MASS
164
AREA
4394
HEIGHT
3636
03-Jun-2024
11:14



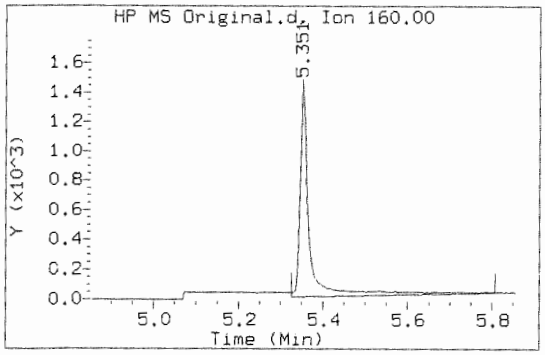
BEFORE
MASS
162
AREA
4626
HEIGHT
3186
31-May-2024
18:55
ALSHS
Server



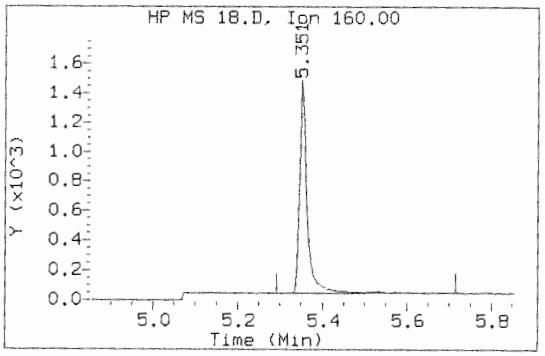
AFTER
MASS
162
AREA
3989
HEIGHT
3154
03-Jun-2024
11:14



BEFORE
MASS
160
AREA
2260
HEIGHT
1471
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
160
AREA
1765
HEIGHT
1441
03-Jun-2024
11:14

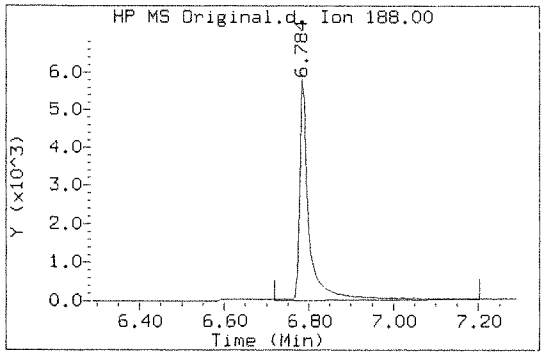


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Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

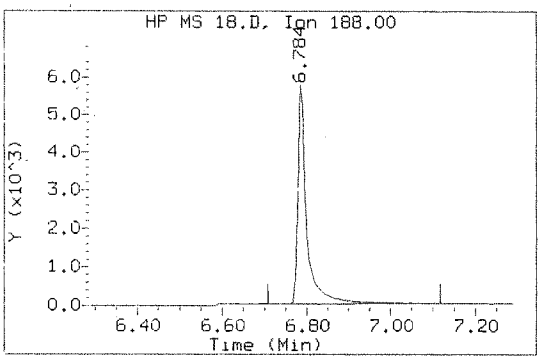
Phenanthrene-d10 (1517-22-2)

Reason Code:

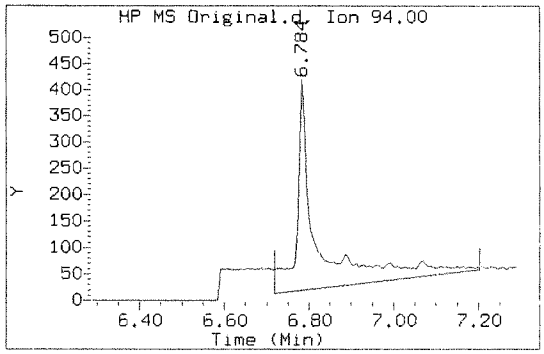
BEFORE
MASS
188
AREA
9314
HEIGHT
5790
31-May-2024
18:55
ALSHS
Server



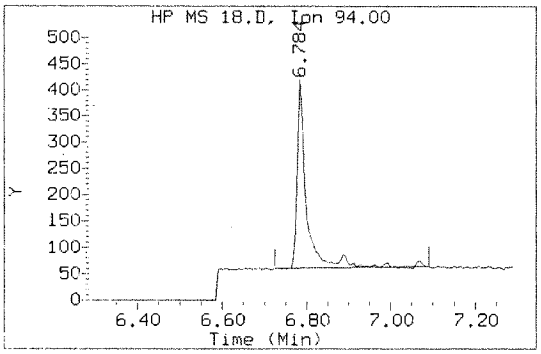
AFTER
MASS
188
AREA
8482
HEIGHT
5754
03-Jun-2024
11:14



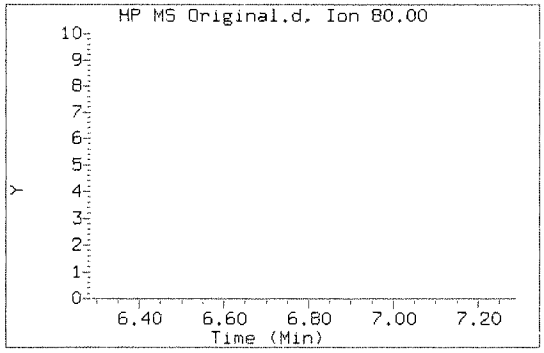
BEFORE
MASS
94
AREA
1320
HEIGHT
401
31-May-2024
18:55
ALSHS
Server



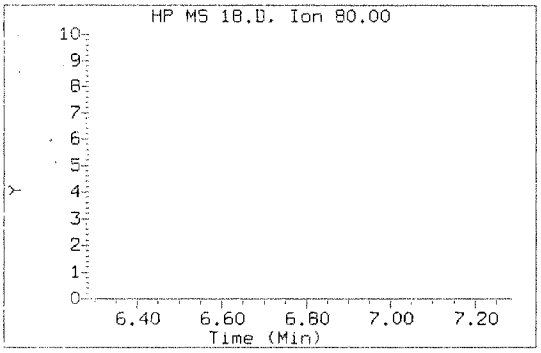
AFTER
MASS
94
AREA
532
HEIGHT
359
03-Jun-2024
11:14



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
18:55
ALSHS
Server



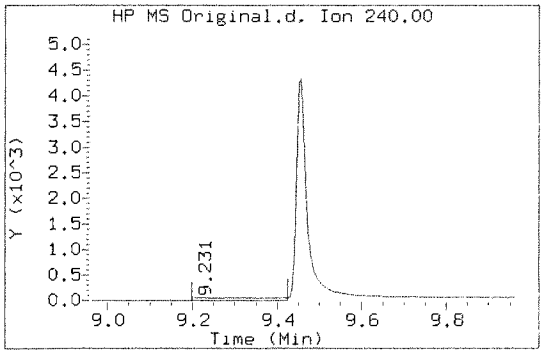
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MASS
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AREA
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HEIGHT
0
03-Jun-2024
11:14



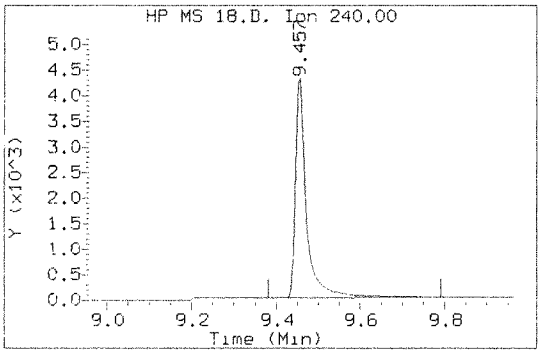
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
698
HEIGHT
53
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
240
AREA
7699
HEIGHT
4277
03-Jun-2024
11:14

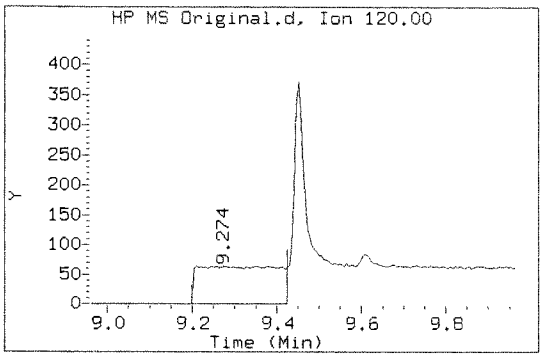


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Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

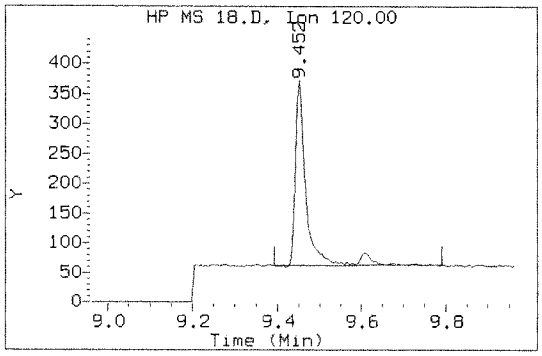
Chrysene-d12 (1719-03-5)

Reason Code:

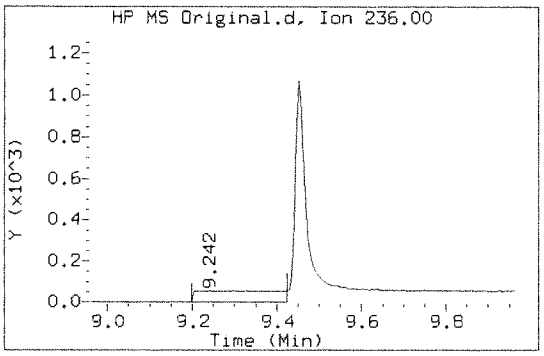
BEFORE
MASS
120
AREA
836
HEIGHT
64
31-May-2024
18:55
ALSHS
Server



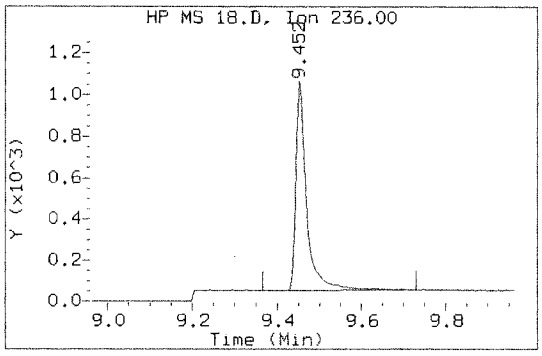
AFTER
MASS
120
AREA
568
HEIGHT
309
03-Jun-2024
11:14



BEFORE
MASS
236
AREA
709
HEIGHT
54
31-May-2024
18:55
ALSHS
Server



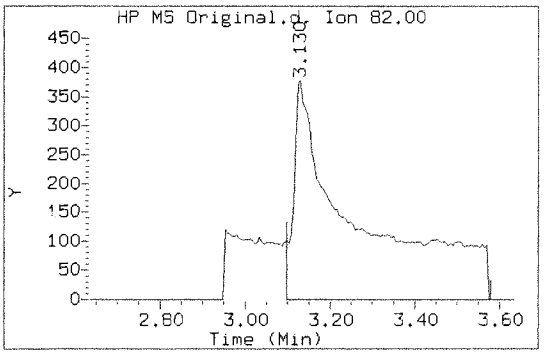
AFTER
MASS
236
AREA
1802
HEIGHT
1015
03-Jun-2024
11:14



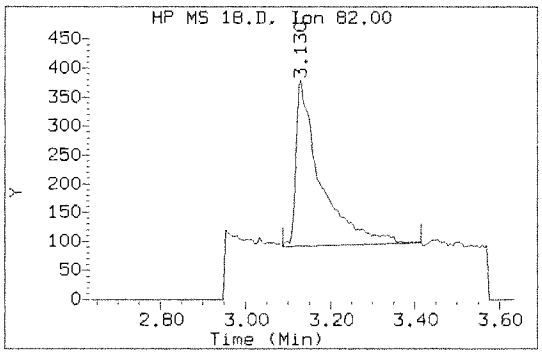
Nitrobenzene-d5 (4165-60-0)

Reason Code:

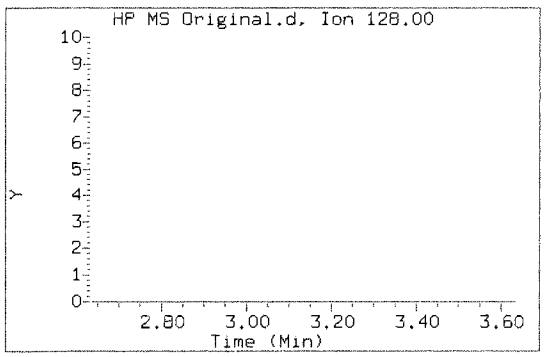
BEFORE
MASS
82
AREA
3851
HEIGHT
379
31-May-2024
18:55
ALSHS
Server



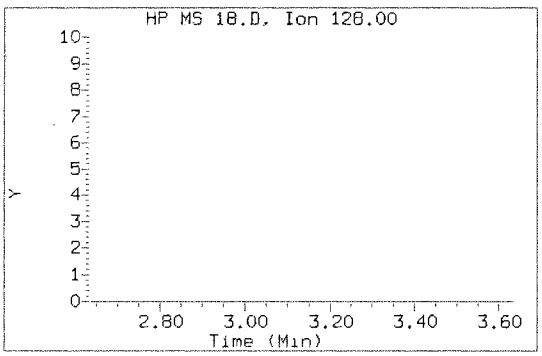
AFTER
MASS
82
AREA
1150
HEIGHT
287
03-Jun-2024
11:14



BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
11:14

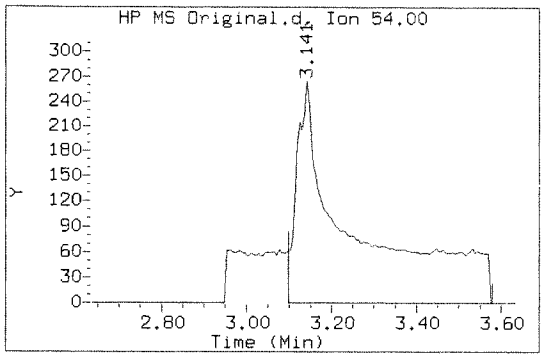


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Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

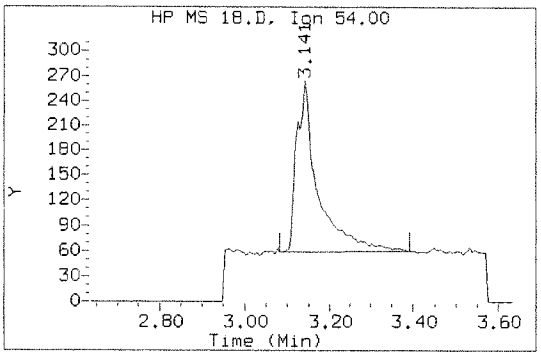
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
2408
HEIGHT
265
31-May-2024
18:55
ALSHS
Server



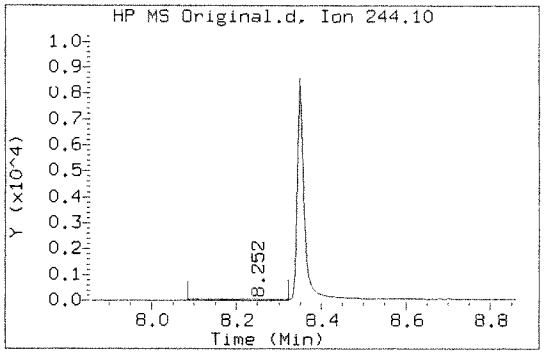
AFTER
MASS
54
AREA
709
HEIGHT
205
03-Jun-2024
11:14



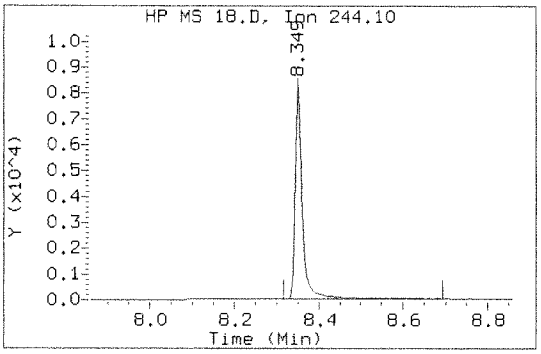
4-Terphenyl-d14 (1718-51-0)

Reason Code:

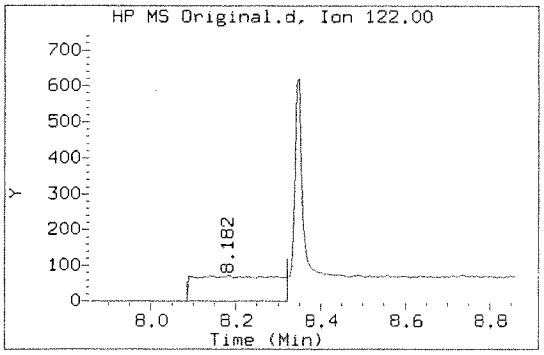
BEFORE
MASS
244.1
AREA
725
HEIGHT
53
31-May-2024
18:55
ALSHS
Server



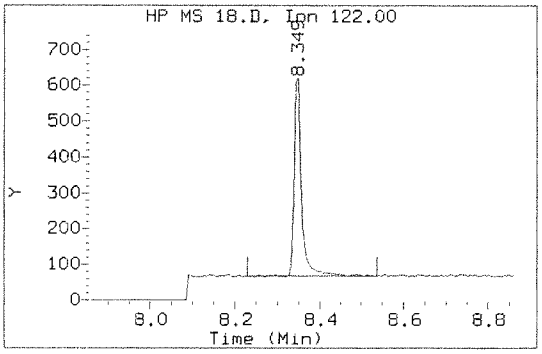
AFTER
MASS
244.1
AREA
9711
HEIGHT
8517
03-Jun-2024
11:14



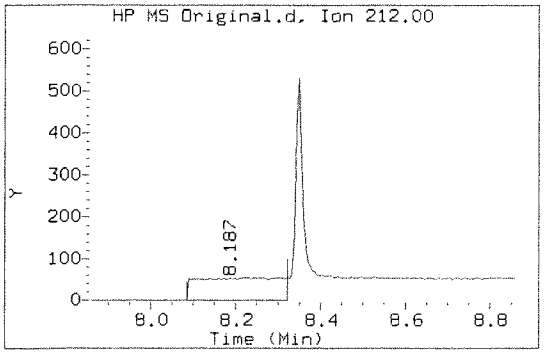
BEFORE
MASS
122
AREA
965
HEIGHT
72
31-May-2024
18:55
ALSHS
Server



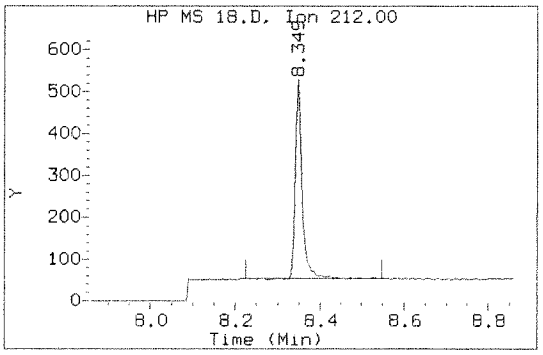
AFTER
MASS
122
AREA
656
HEIGHT
551
03-Jun-2024
11:14



BEFORE
MASS
212
AREA
738
HEIGHT
54
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
212
AREA
518
HEIGHT
476
03-Jun-2024
11:14

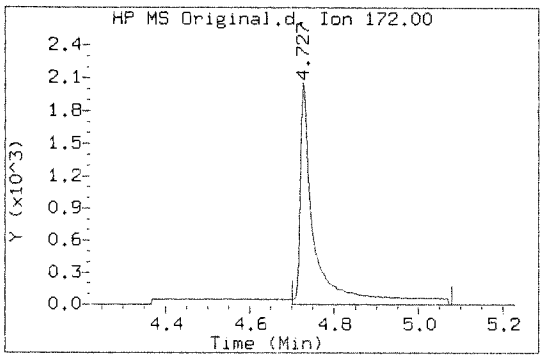


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Inj Date : 31-MAY-2024 18:40
InstruID : SV6.i
LabSampID : HS24051428-01

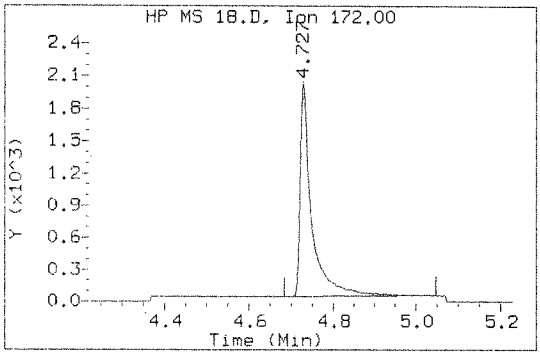
2-Fluorobiphenyl (321-60-8)

Reason Code:

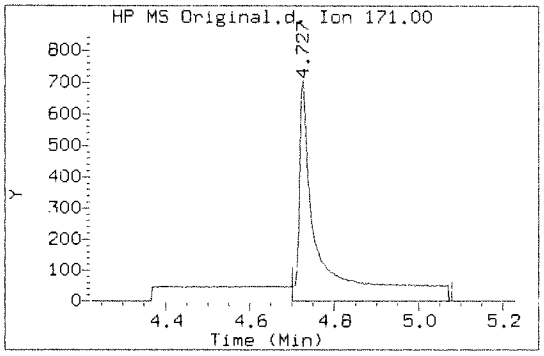
BEFORE
MASS
172
AREA
5057
HEIGHT
2060
31-May-2024
18:55
ALSHS
Server



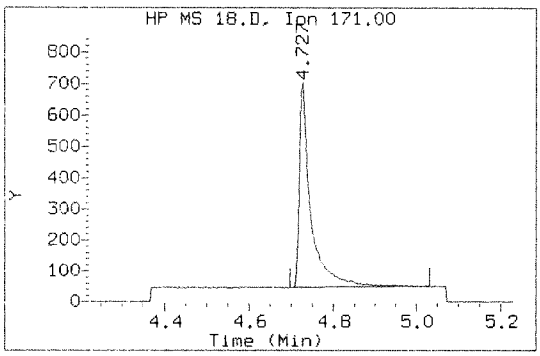
AFTER
MASS
172
AREA
3841
HEIGHT
2011
03-Jun-2024
11:14



BEFORE
MASS
171
AREA
2356
HEIGHT
705
31-May-2024
18:55
ALSHS
Server



AFTER
MASS
171
AREA
1270
HEIGHT
658
03-Jun-2024
11:14



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Lab Smp Id: HS24051428-02
Inj Date : 31-MAY-2024 18:58
Operator : LG Inst ID: SV6.i
Smp Info : HS24051428-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

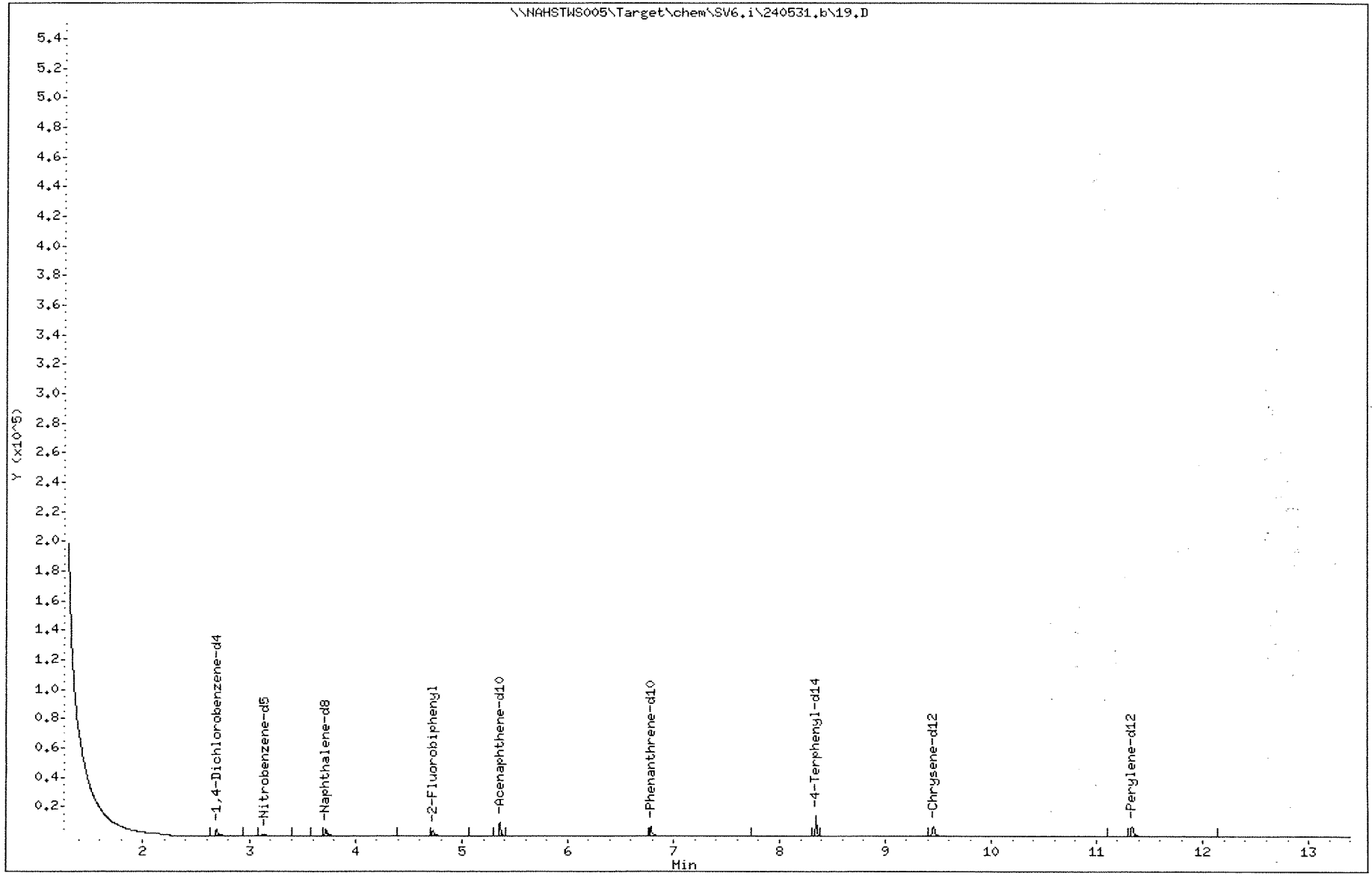
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.685	2.684	(1.000)	2413	0.10000		(aM)
* 45 Naphthalene-d8	136	3.723	3.727	(1.000)	8725	0.10000		
$ 33 Nitrobenzene-d5	82	3.125	3.135	(0.839)	1267	0.04837	0.04837	(M)
* 86 Acenaphthene-d10	164	5.357	5.356	(1.000)	4776	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4531	0.06206	0.06206	(M)
* 126 Phenanthrene-d10	188	6.784	6.789	(1.000)	8720	0.10000		(M)
* 182 Chrysene-d12	240	9.451	9.462	(1.000)	8393	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	13821	0.08083	0.08083	(M)
* 198 Perylene-d12	264	11.334	11.344	(1.000)	9138	0.10000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Date : 31-MAY-2024 18:58
Client ID:
Instrument: SV6.i
Sample Info: HS24051428-02
Purge Volume: 1000.0
Operator: LG
Column phase: RTX-5SIL MS
Column diameter: 0.28

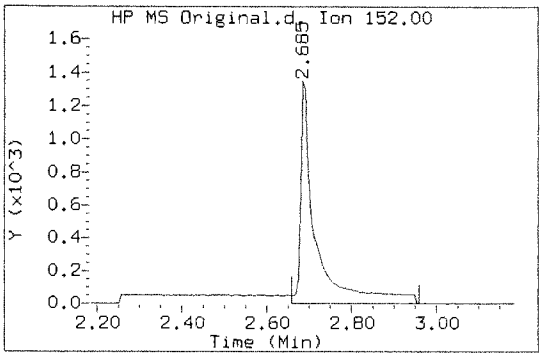


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Inj Date : 31-MAY-2024 18:58
InstruID : SV6.i
LabSampID : HS24051428-02

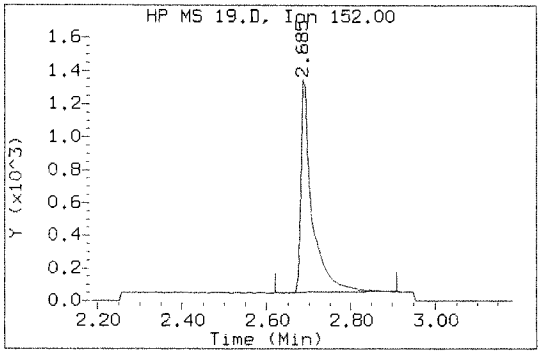
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

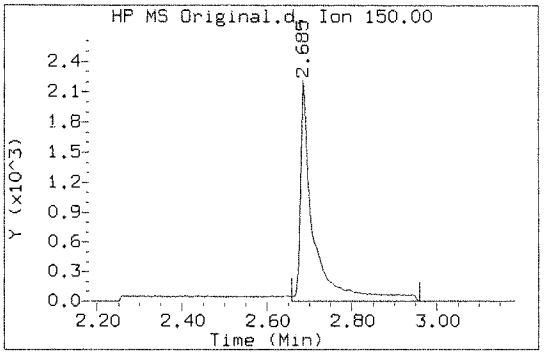
BEFORE
MASS
152
AREA
3366
HEIGHT
1347
31-May-2024
19:14
ALSHS
Server



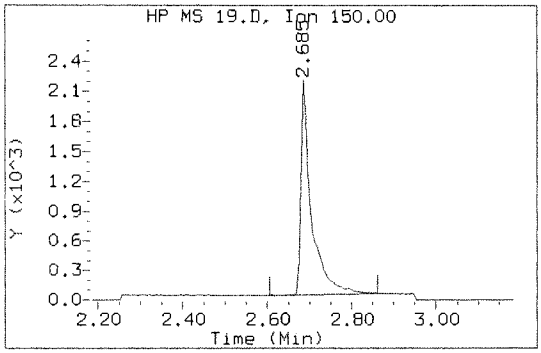
AFTER
MASS
152
AREA
2413
HEIGHT
1296
03-Jun-2024
10:28



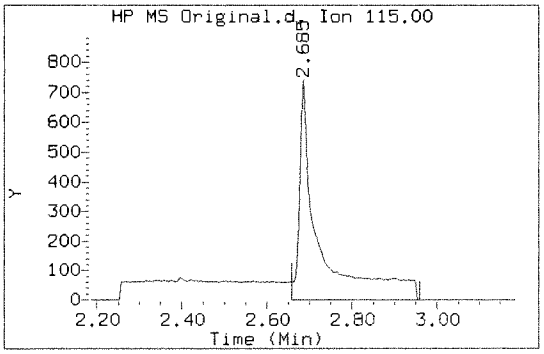
BEFORE
MASS
150
AREA
4798
HEIGHT
2217
31-May-2024
19:14
ALSHS
Server



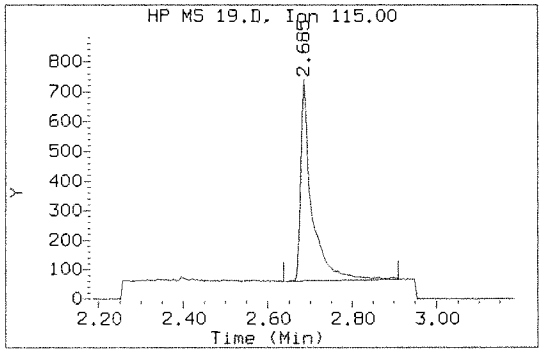
AFTER
MASS
150
AREA
3728
HEIGHT
2163
03-Jun-2024
10:28



BEFORE
MASS
115
AREA
2377
HEIGHT
742
31-May-2024
19:14
ALSHS
Server



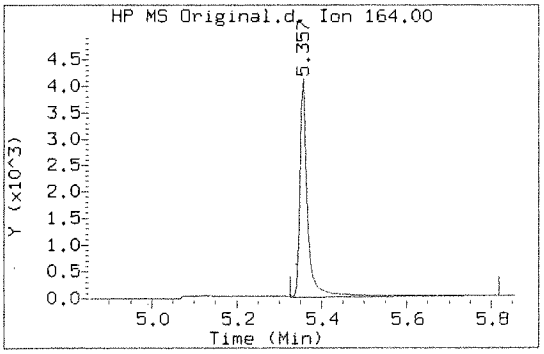
AFTER
MASS
115
AREA
1233
HEIGHT
679
03-Jun-2024
10:28



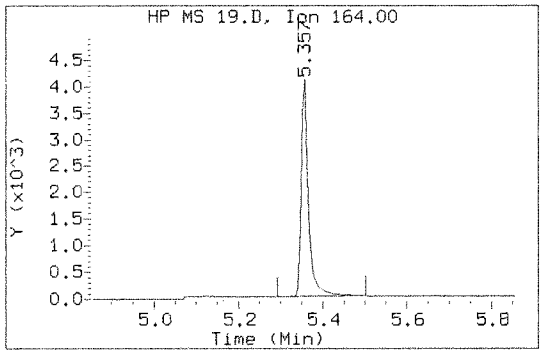
Acenaphthene-d10 (15067-26-2)

Reason Code:

BEFORE
MASS
164
AREA
5451
HEIGHT
4121
31-May-2024
19:14
ALSHS
Server



AFTER
MASS
164
AREA
4776
HEIGHT
4085
03-Jun-2024
10:28

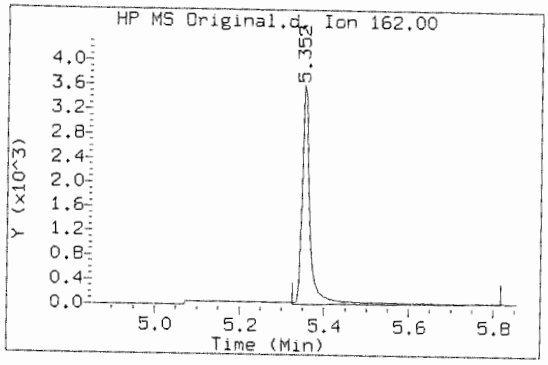


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Inj Date : 31-MAY-2024 18:58
InstruID : SV6.i
LabSampID : HS24051428-02

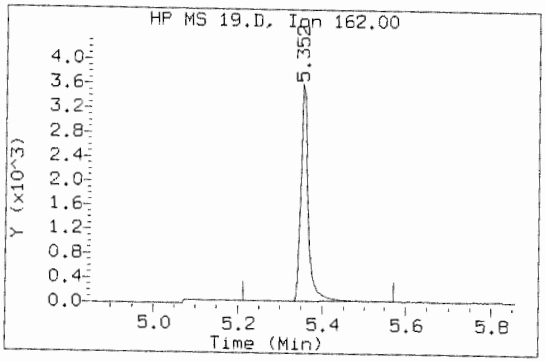
Acenaphthene-d10 (15067-26-2)

Reason Code:

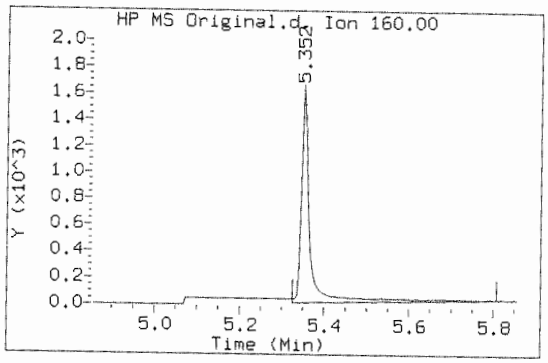
BEFORE
MASS
162
AREA
5022
HEIGHT
3600
31-May-2024
19:14
ALSHS
Server



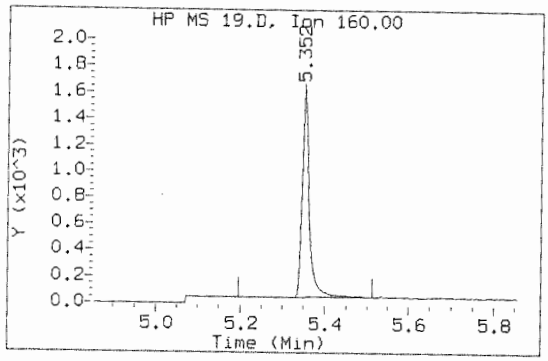
AFTER
MASS
162
AREA
4383
HEIGHT
3567
03-Jun-2024
10:28



BEFORE
MASS
160
AREA
2443
HEIGHT
1652
31-May-2024
19:14
ALSHS
Server



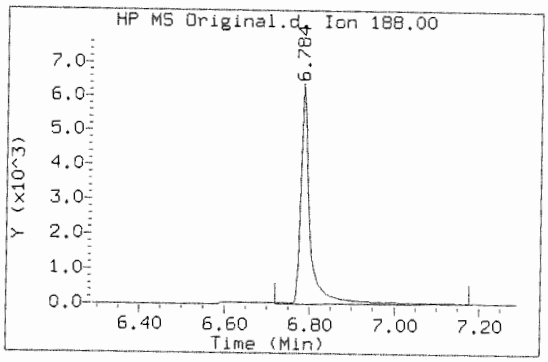
AFTER
MASS
160
AREA
1867
HEIGHT
1621
03-Jun-2024
10:28



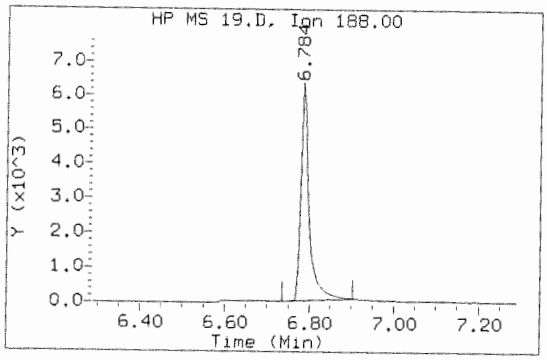
Phenanthrene-d10 (1517-22-2)

Reason Code:

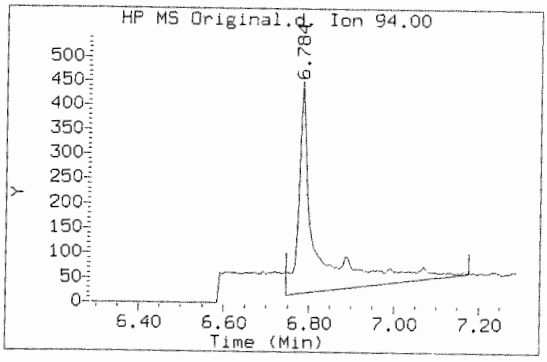
BEFORE
MASS
188
AREA
10149
HEIGHT
6395
31-May-2024
19:14
ALSHS
Server



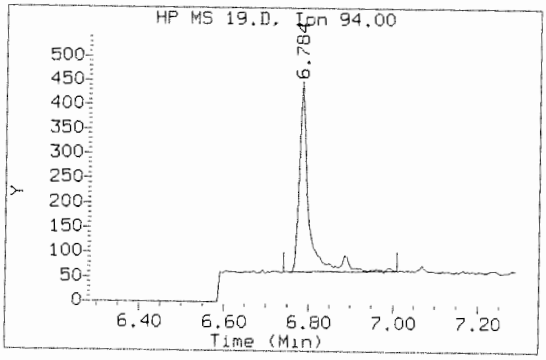
AFTER
MASS
188
AREA
8720
HEIGHT
6340
03-Jun-2024
10:28



BEFORE
MASS
94
AREA
1252
HEIGHT
430
31-May-2024
19:14
ALSHS
Server



AFTER
MASS
94
AREA
602
HEIGHT
388
03-Jun-2024
10:28

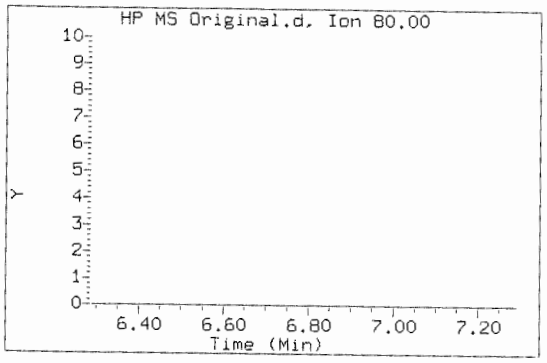


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Inj Date : 31-MAY-2024 18:58
InstruID : SV6.i
LabSampID : HS24051428-02

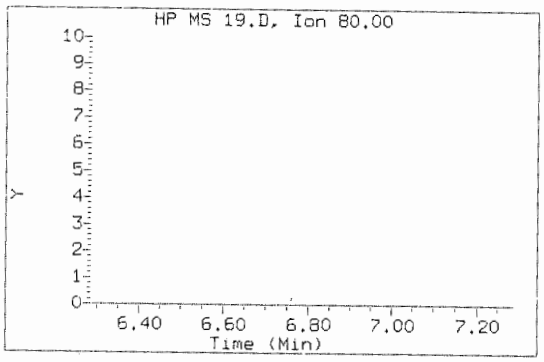
Phenanthrene-d10 (1517-22-2)

Reason Code:

BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
19:14
ALSHS
Server



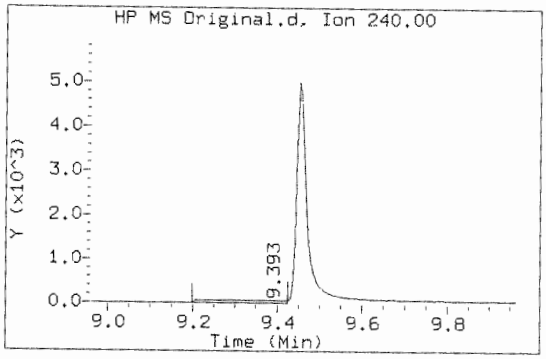
AFTER
MASS
80
AREA
0
HEIGHT
0
03-Jun-2024
10:28



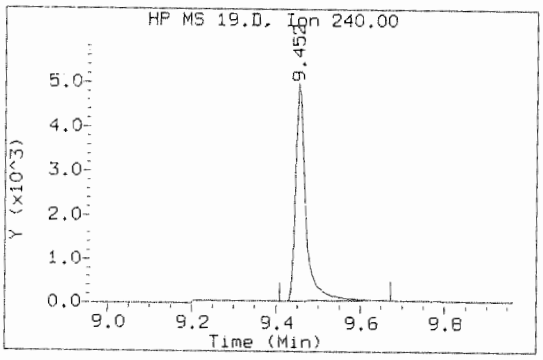
Chrysene-d12 (1719-03-5)

Reason Code:

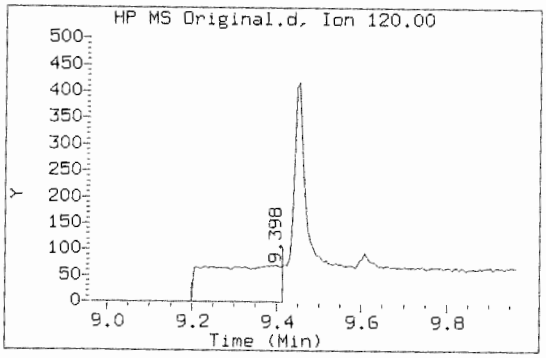
BEFORE
MASS
240
AREA
727
HEIGHT
60
31-May-2024
19:14
ALSHS
Server



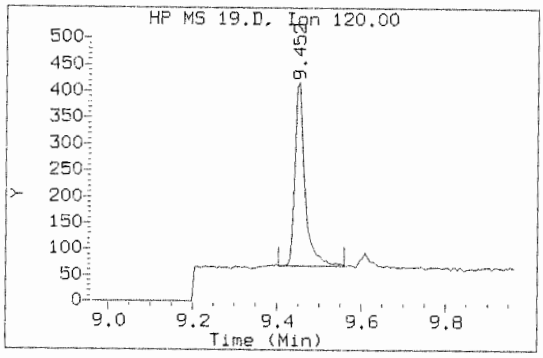
AFTER
MASS
240
AREA
8393
HEIGHT
4935
03-Jun-2024
10:28



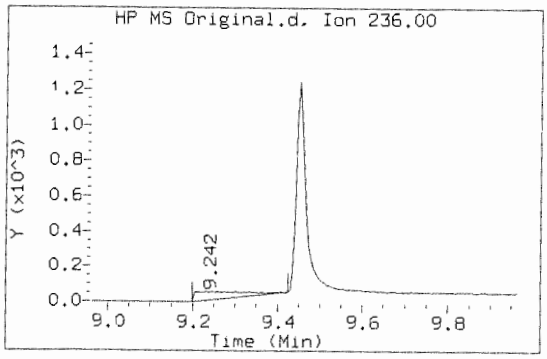
BEFORE
MASS
120
AREA
856
HEIGHT
71
31-May-2024
19:14
ALSHS
Server



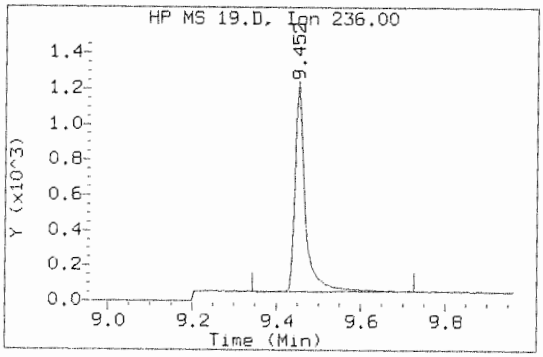
AFTER
MASS
120
AREA
581
HEIGHT
349
03-Jun-2024
10:28



BEFORE
MASS
236
AREA
343
HEIGHT
46
31-May-2024
19:14
ALSHS
Server



AFTER
MASS
236
AREA
1977
HEIGHT
1185
03-Jun-2024
10:28

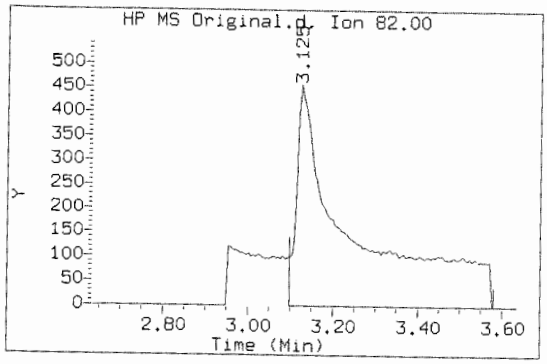


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Inj Date : 31-MAY-2024 18:58
InstruID : SV6.i
LabSampID : HS24051428-02

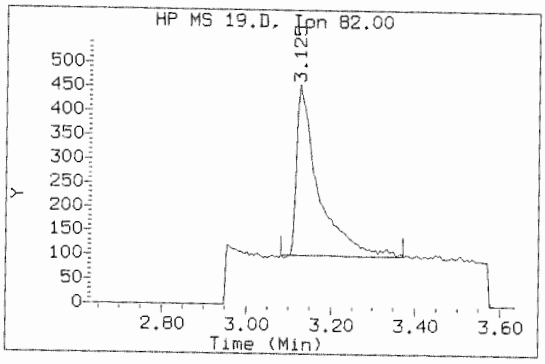
Nitrobenzene-d5 (4165-60-0)

Reason Code:

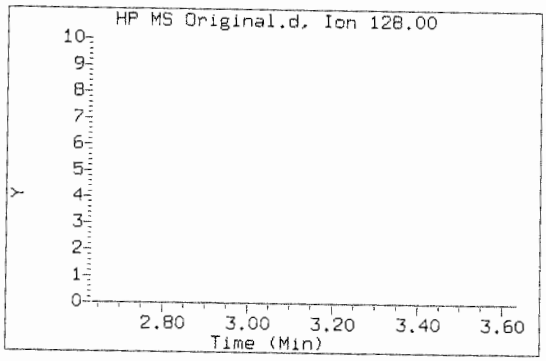
BEFORE
MASS
82
AREA
4109
HEIGHT
457
31-May-2024
19:14
ALSHS
Server



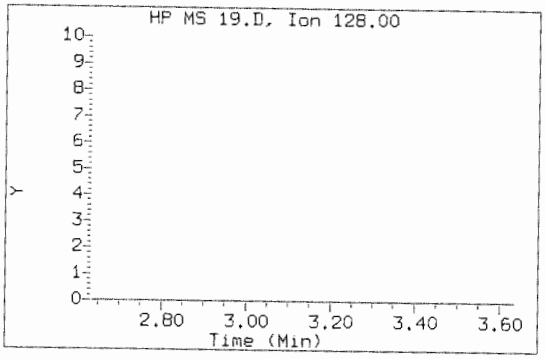
AFTER
MASS
82
AREA
1267
HEIGHT
355
03-Jun-2024
10:28



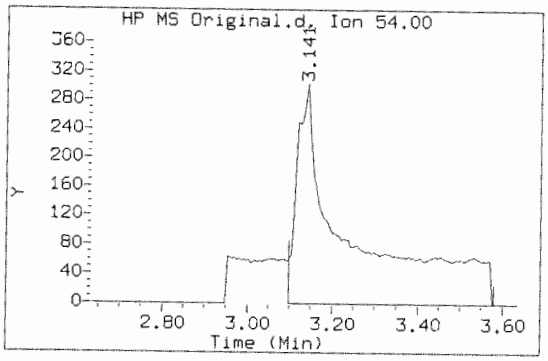
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
19:14
ALSHS
Server



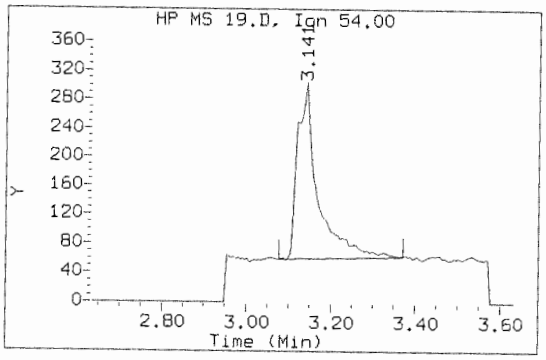
AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
10:28



BEFORE
MASS
54
AREA
2557
HEIGHT
304
31-May-2024
19:14
ALSHS
Server



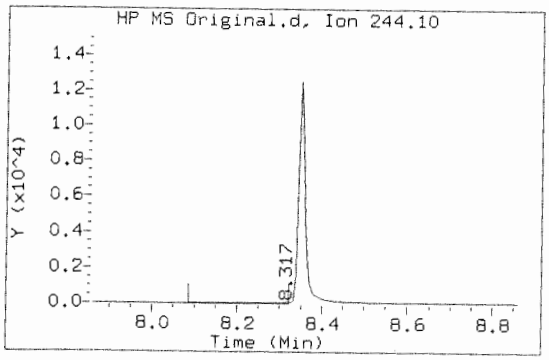
AFTER
MASS
54
AREA
825
HEIGHT
244
03-Jun-2024
10:28



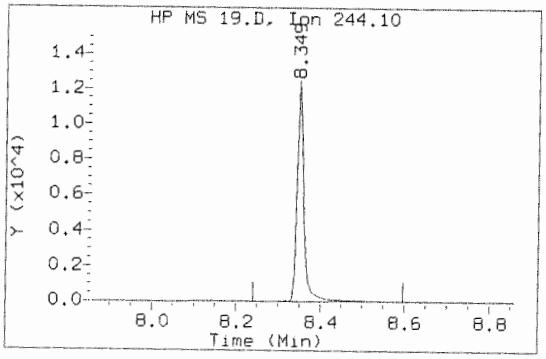
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
734
HEIGHT
55
31-May-2024
19:14
ALSHS
Server



AFTER
MASS
244.1
AREA
13821
HEIGHT
12465
03-Jun-2024
10:28

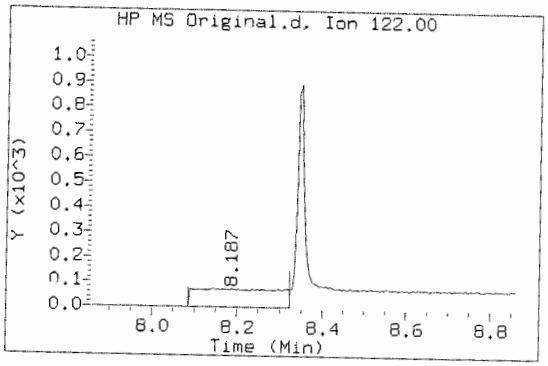


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\19.D
Inj Date : 31-MAY-2024 18:58
InstruID : SV6.i
LabSampID : HS24051428-02

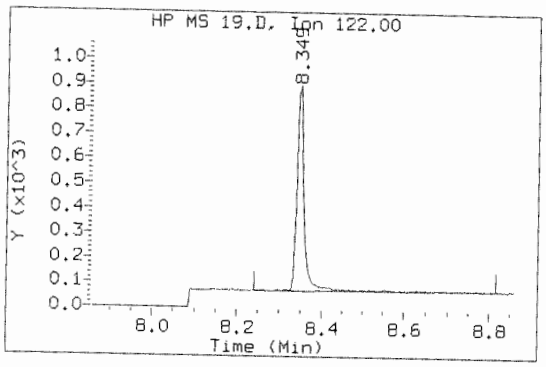
4-Terphenyl-d14 (1718-51-0)

Reason Code:

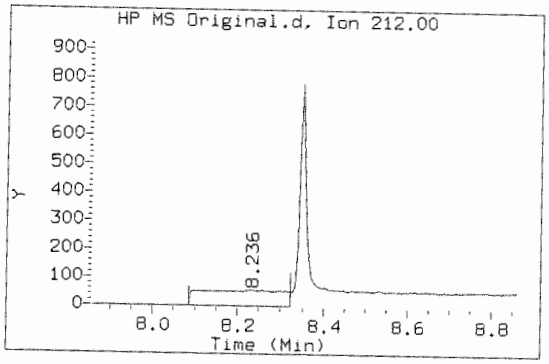
BEFORE
MASS
122
AREA
1013
HEIGHT
76
31-May-2024
19:14
ALSHS
Server



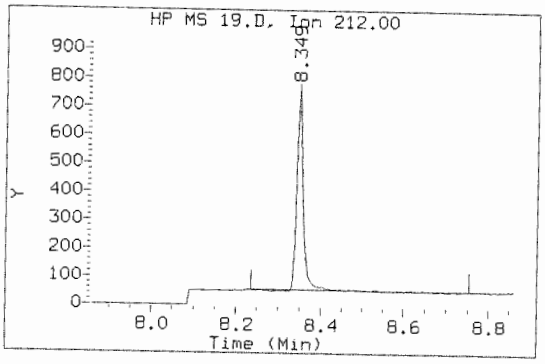
AFTER
MASS
122
AREA
1024
HEIGHT
825
03-Jun-2024
10:28



BEFORE
MASS
212
AREA
752
HEIGHT
57
31-May-2024
19:14
ALSHS
Server



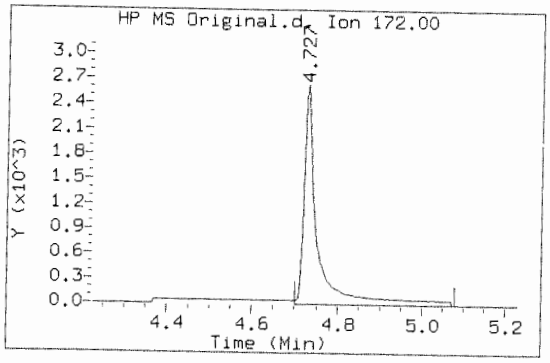
AFTER
MASS
212
AREA
719
HEIGHT
726
03-Jun-2024
10:28



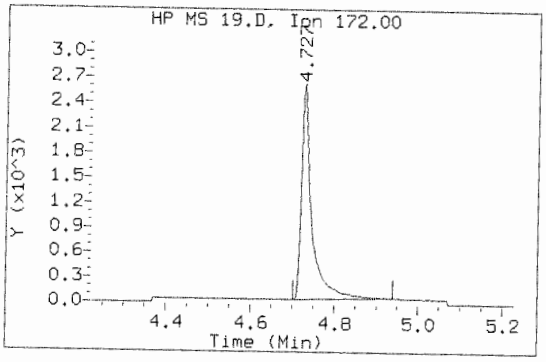
2-Fluorobiphenyl (321-60-8)

Reason Code:

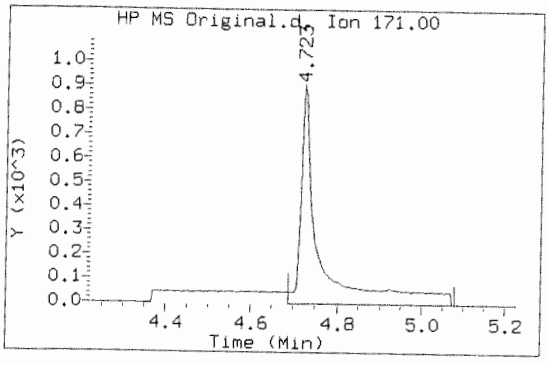
BEFORE
MASS
172
AREA
5826
HEIGHT
2639
31-May-2024
19:14
ALSHS
Server



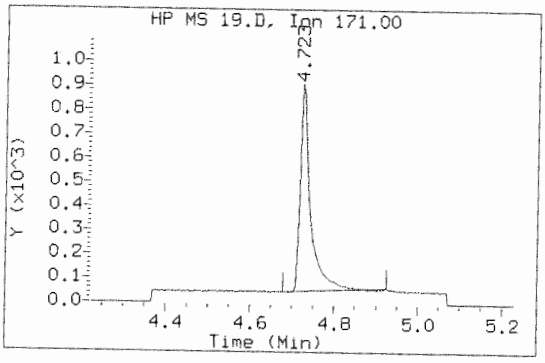
AFTER
MASS
172
AREA
4531
HEIGHT
2590
03-Jun-2024
10:28



BEFORE
MASS
171
AREA
2680
HEIGHT
909
31-May-2024
19:14
ALSHS
Server



AFTER
MASS
171
AREA
1442
HEIGHT
860
03-Jun-2024
10:28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\20.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\20.D
Lab Smp Id: HS24051428-03
Inj Date : 31-MAY-2024 19:15
Operator : LG Inst ID: SV6.i
Smp Info : HS24051428-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2244	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	7309	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.125	3.135	(0.838)	1368	0.06235	0.06235	(M)
* 86 Acenaphthene-d10	164	5.357	5.356	(1.000)	4397	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4303	0.06402	0.06402	(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	8731	0.10000		(M)
* 182 Chrysene-d12	240	9.457	9.462	(1.000)	7990	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	11112	0.06827	0.06827	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	8421	0.10000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\20.D

Date : 31-MAY-2024 19:15

Client ID:

Instrument: SV6.i

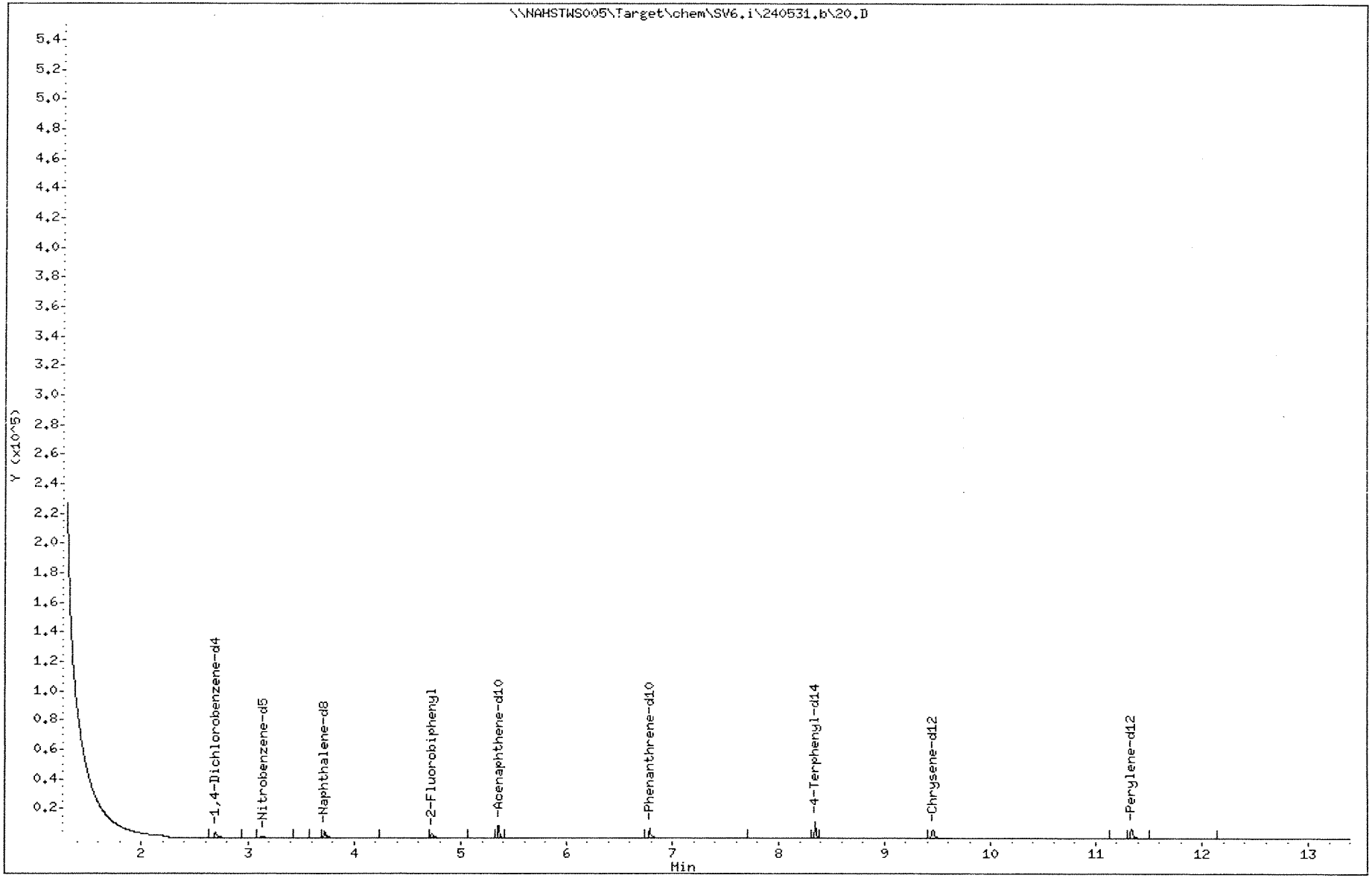
Sample Info: HS24051428-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

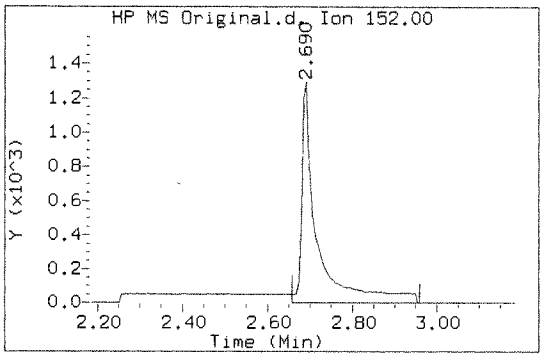


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\20.D
Inj Date : 31-MAY-2024 19:15
InstruID : SV6.i
LabSampID : HS24051428-03

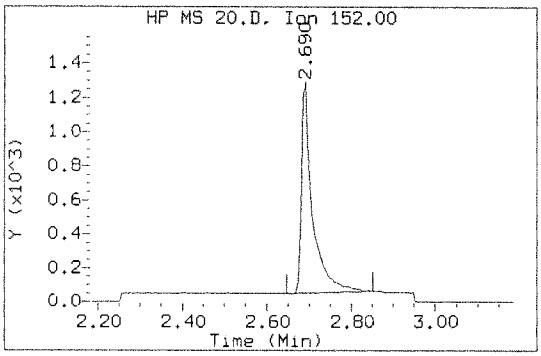
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

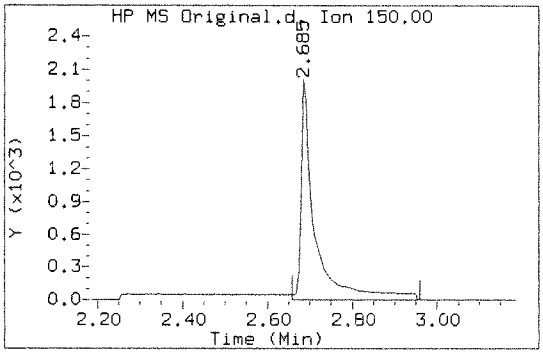
BEFORE
MASS
152
AREA
3250
HEIGHT
1295
31-May-2024
19:34
ALSHS
Server



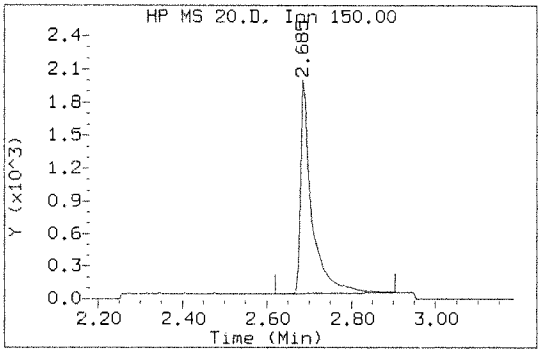
AFTER
MASS
152
AREA
2244
HEIGHT
1242
03-Jun-2024
10:28



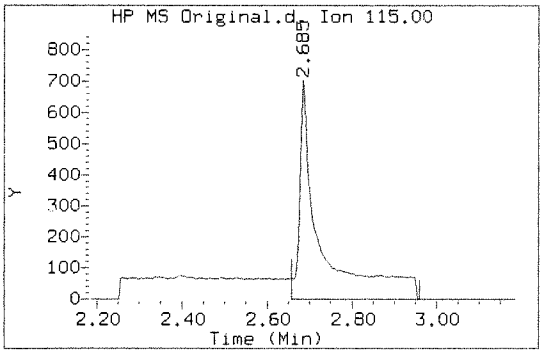
BEFORE
MASS
150
AREA
4564
HEIGHT
2005
31-May-2024
19:34
ALSHS
Server



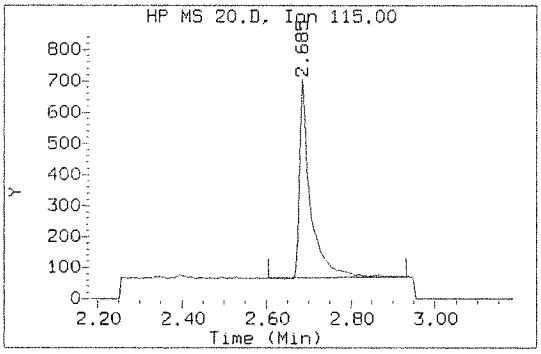
AFTER
MASS
150
AREA
3581
HEIGHT
1954
03-Jun-2024
10:28



BEFORE
MASS
115
AREA
2354
HEIGHT
705
31-May-2024
19:34
ALSHS
Server



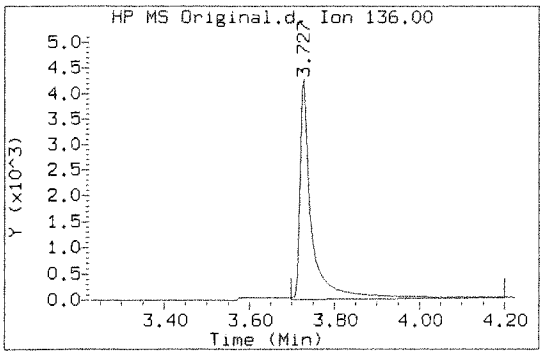
AFTER
MASS
115
AREA
1127
HEIGHT
637
03-Jun-2024
10:28



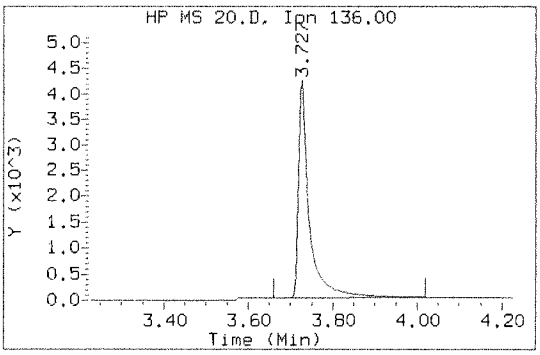
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8232
HEIGHT
4266
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
136
AREA
7308
HEIGHT
4225
03-Jun-2024
10:28

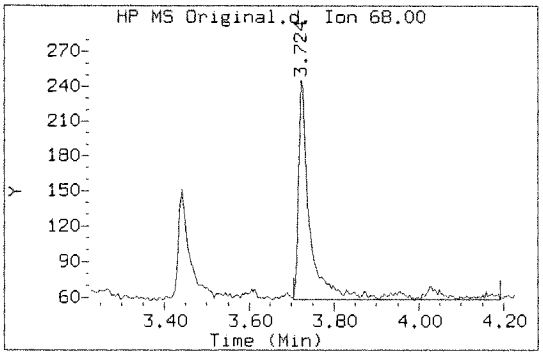


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Inj Date : 31-MAY-2024 19:15
InstruID : SV6.i
LabSampID : HS24051428-03

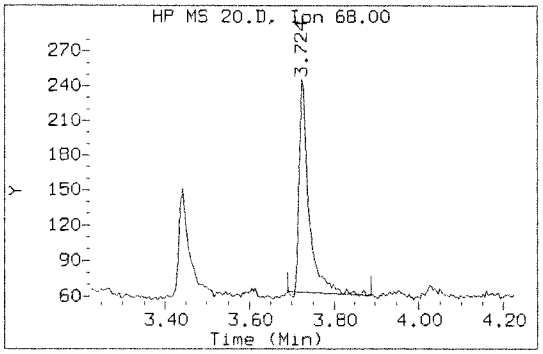
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
398
HEIGHT
188
31-May-2024
19:34
ALSHS
Server



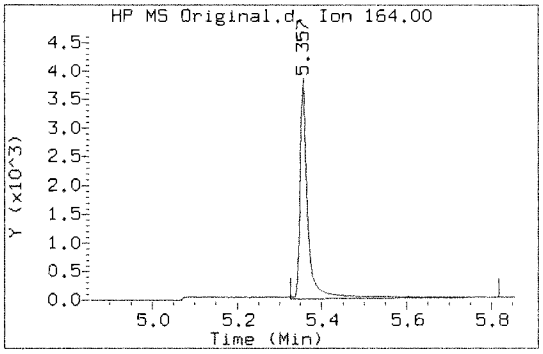
AFTER
MASS
68
AREA
282
HEIGHT
182
03-Jun-2024
10:28



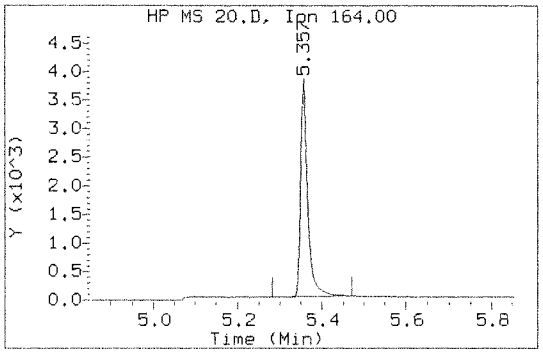
Acenaphthene-d10 (15067-26-2)

Reason Code:

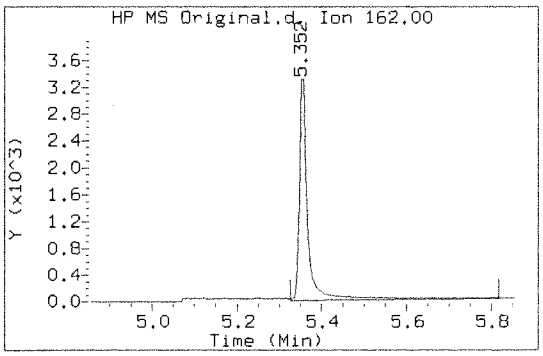
BEFORE
MASS
164
AREA
5233
HEIGHT
3862
31-May-2024
19:34
ALSHS
Server



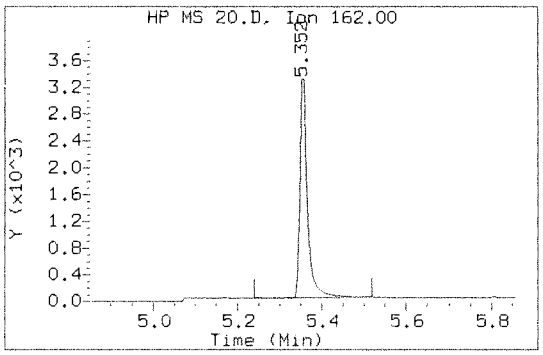
AFTER
MASS
164
AREA
4397
HEIGHT
3821
03-Jun-2024
10:28



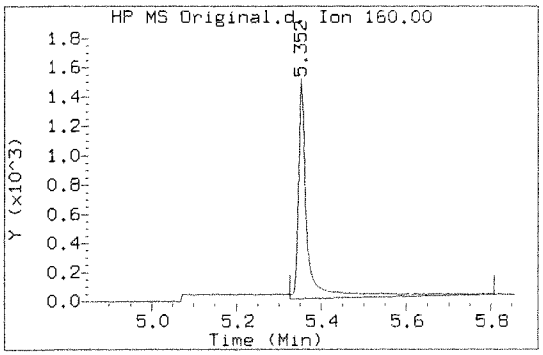
BEFORE
MASS
162
AREA
4825
HEIGHT
3299
31-May-2024
19:34
ALSHS
Server



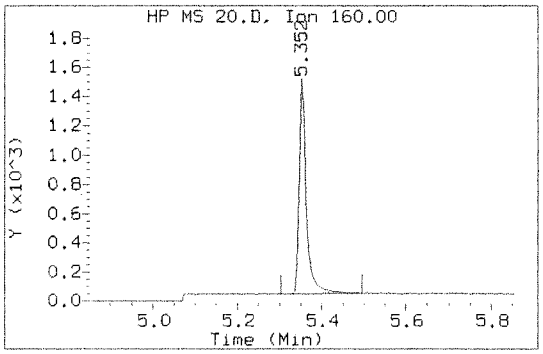
AFTER
MASS
162
AREA
4086
HEIGHT
3262
03-Jun-2024
10:28



BEFORE
MASS
160
AREA
2297
HEIGHT
1503
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
160
AREA
1733
HEIGHT
1472
03-Jun-2024
10:28

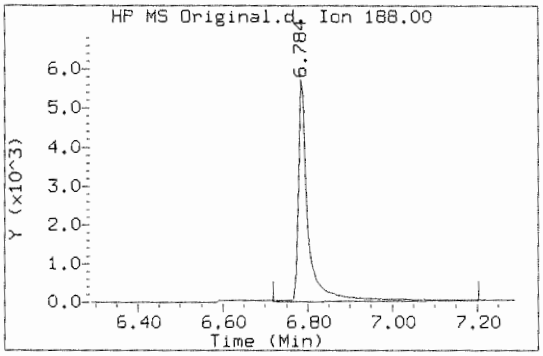


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Inj Date : 31-MAY-2024 19:15
InstruID : SV6.i
LabSampID : HS24051428-03

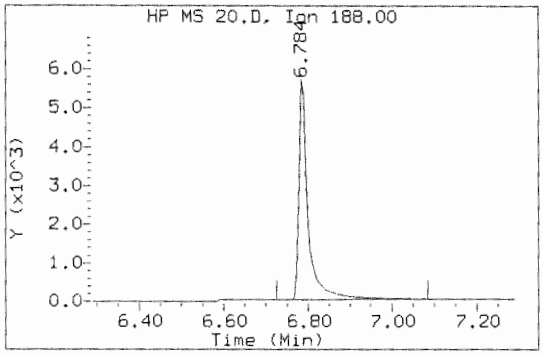
Phenanthrene-d10 (1517-22-2)

Reason Code:

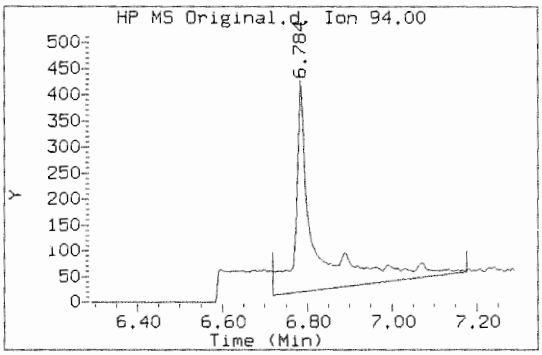
BEFORE
MASS
188
AREA
9601
HEIGHT
5711
31-May-2024
19:34
ALSHS
Server



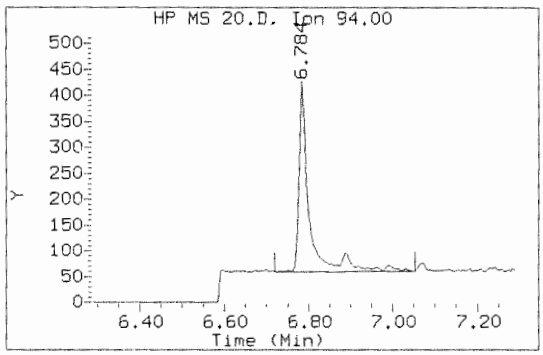
AFTER
MASS
188
AREA
8731
HEIGHT
5675
03-Jun-2024
10:28



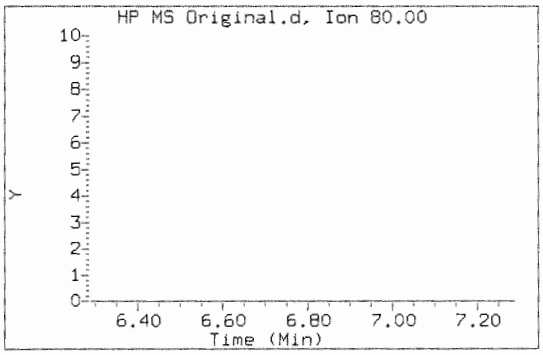
BEFORE
MASS
94
AREA
1309
HEIGHT
406
31-May-2024
19:34
ALSHS
Server



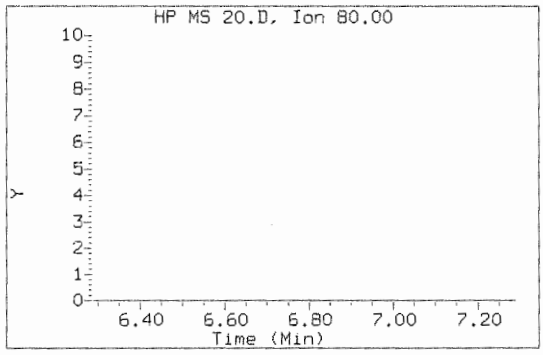
AFTER
MASS
94
AREA
636
HEIGHT
367
03-Jun-2024
10:28



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
19:34
ALSHS
Server



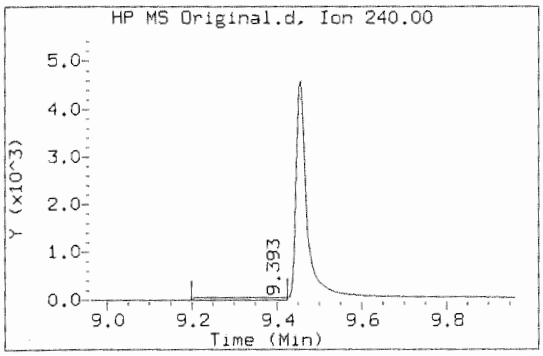
AFTER
MASS
80
AREA
0
HEIGHT
0
03-Jun-2024
10:28



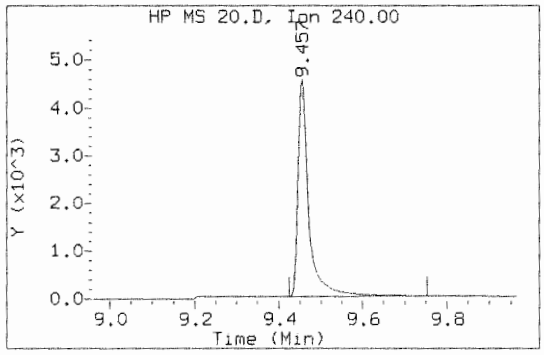
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
709
HEIGHT
56
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
240
AREA
7990
HEIGHT
4536
03-Jun-2024
10:28

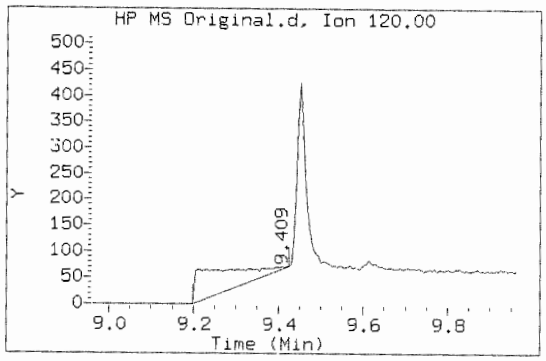


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Inj Date : 31-MAY-2024 19:15
InstruID : SV6.i
LabSampID : HS24051428-03

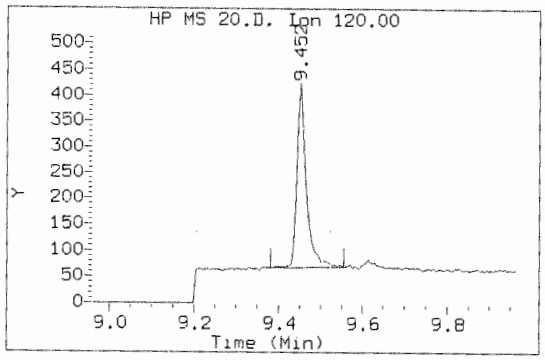
Chrysene-d12 (1719-03-5)

Reason Code:

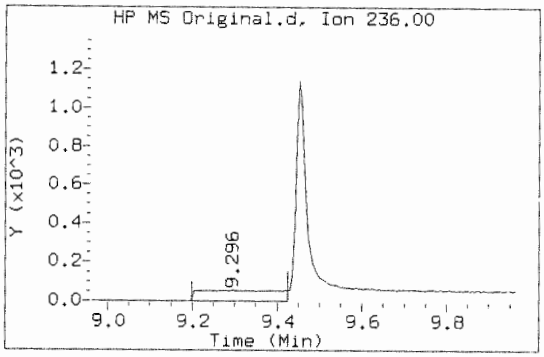
BEFORE
MASS
120
AREA
397
HEIGHT
5
31-May-2024
19:34
ALSHS
Server



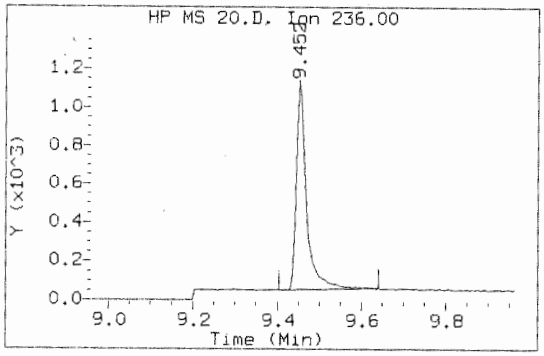
AFTER
MASS
120
AREA
546
HEIGHT
356
03-Jun-2024
10:28



BEFORE
MASS
236
AREA
719
HEIGHT
55
31-May-2024
19:34
ALSHS
Server



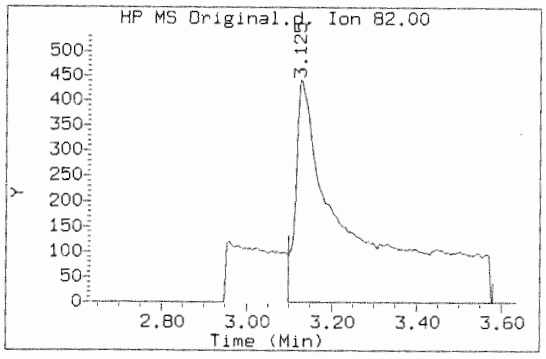
AFTER
MASS
236
AREA
1809
HEIGHT
1086
03-Jun-2024
10:28



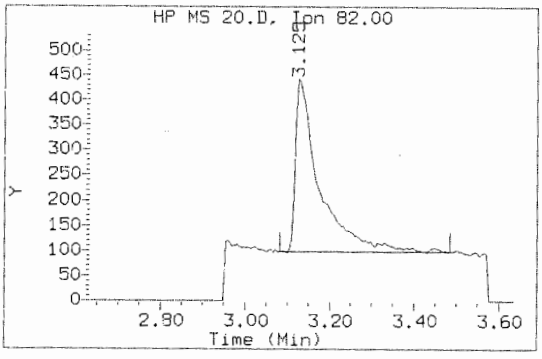
Nitrobenzene-d5 (4165-60-0)

Reason Code:

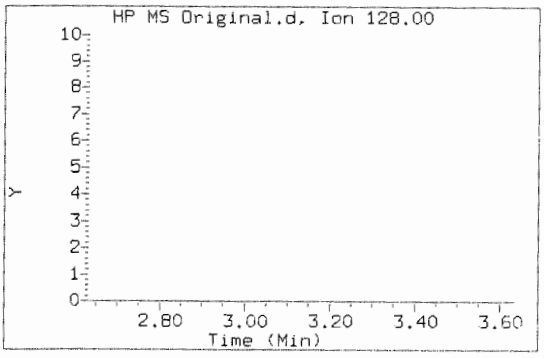
BEFORE
MASS
82
AREA
4151
HEIGHT
442
31-May-2024
19:34
ALSHS
Server



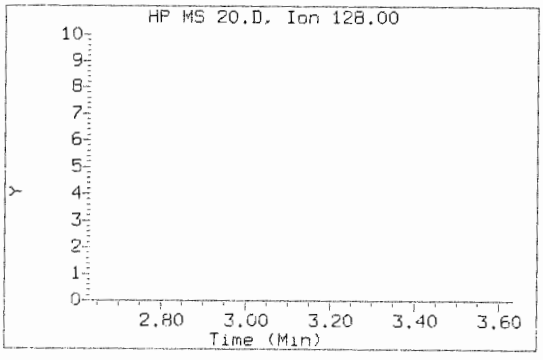
AFTER
MASS
82
AREA
1368
HEIGHT
344
03-Jun-2024
10:28



BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
10:28

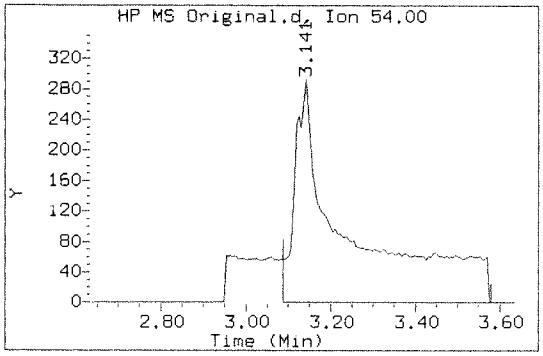


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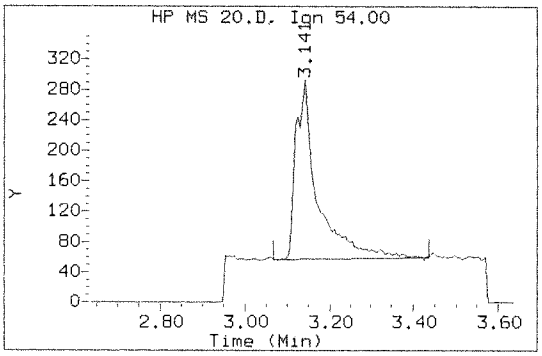
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
2554
HEIGHT
293
31-May-2024
19:34
ALSHS
Server



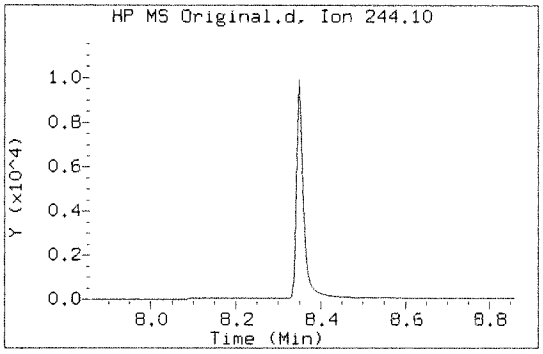
AFTER
MASS
54
AREA
842
HEIGHT
235
03-Jun-2024
10:28



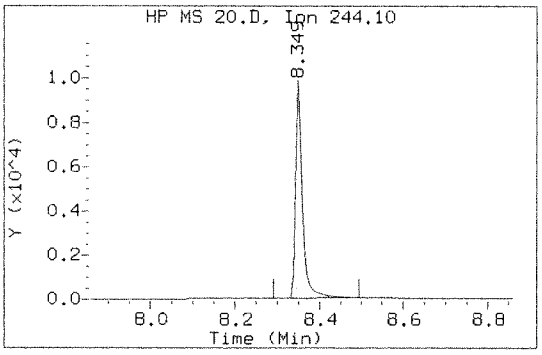
4-Terphenyl-d14 (1718-51-0)

Reason Code:

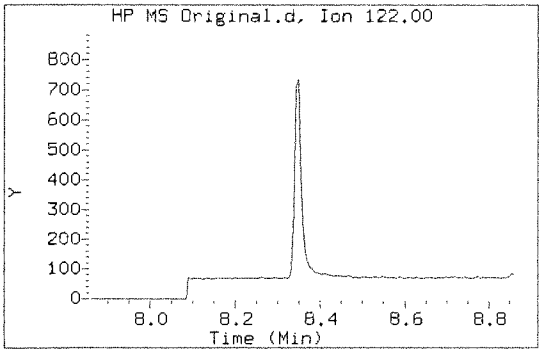
BEFORE
MASS
244.1
AREA
0
HEIGHT
0
31-May-2024
19:34
ALSHS
Server



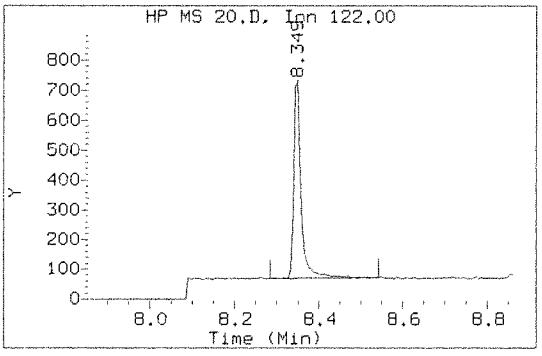
AFTER
MASS
244.1
AREA
11112
HEIGHT
9839
03-Jun-2024
10:28



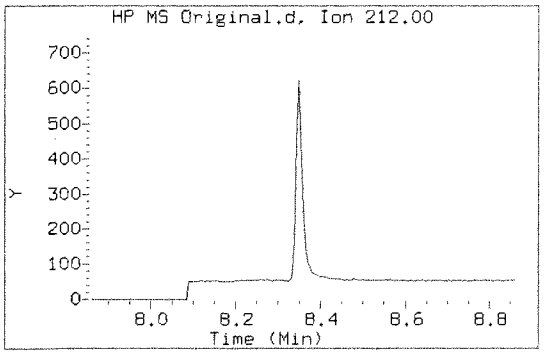
BEFORE
MASS
122
AREA
0
HEIGHT
0
31-May-2024
19:34
ALSHS
Server



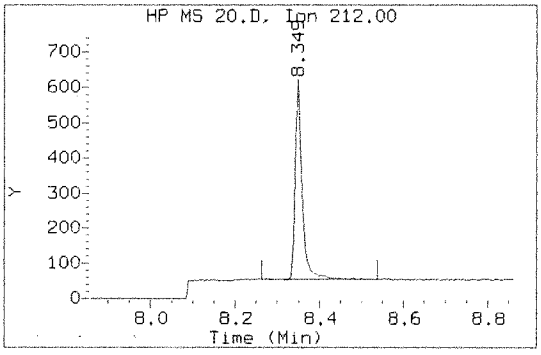
AFTER
MASS
122
AREA
798
HEIGHT
664
03-Jun-2024
10:28



BEFORE
MASS
212
AREA
0
HEIGHT
0
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
212
AREA
628
HEIGHT
569
03-Jun-2024
10:28

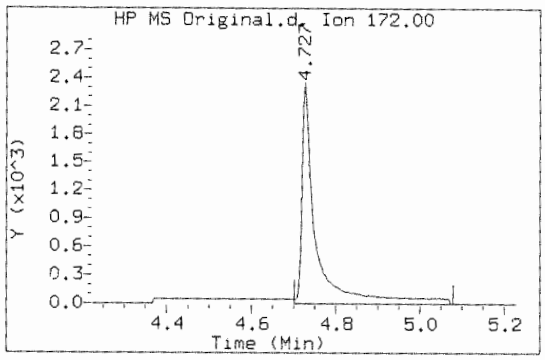


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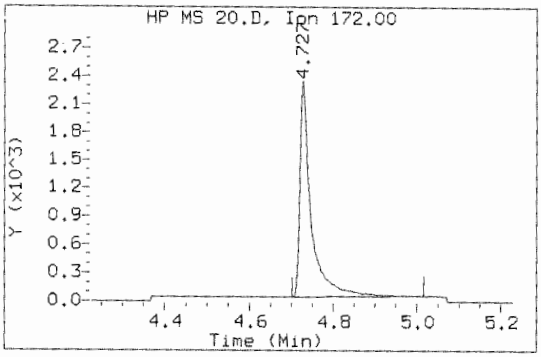
2-Fluorobiphenyl (321-60-8)

Reason Code:

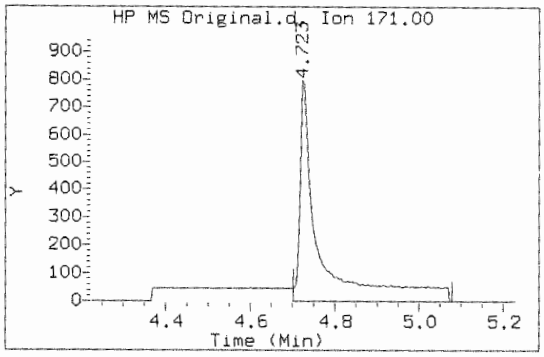
BEFORE
MASS
172
AREA
5522
HEIGHT
2351
31-May-2024
19:34
ALSHS
Server



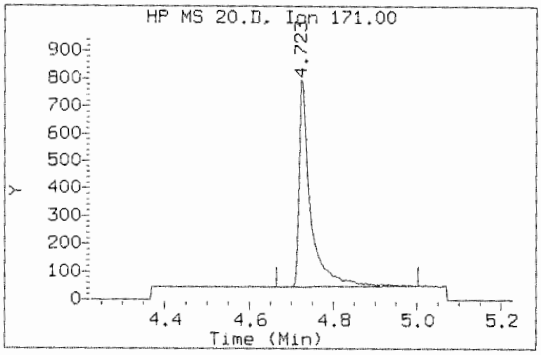
AFTER
MASS
172
AREA
4303
HEIGHT
2303
03-Jun-2024
10:28



BEFORE
MASS
171
AREA
2535
HEIGHT
797
31-May-2024
19:34
ALSHS
Server



AFTER
MASS
171
AREA
1429
HEIGHT
750
03-Jun-2024
10:28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Lab Smp Id: HS24051434-04
Inj Date : 31-MAY-2024 19:33
Operator : LG Inst ID: SV6.i
Smp Info : HS24051434-04
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2790	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	8841	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.130	3.135	(0.840)	1499	0.05648	0.05648	(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	5540	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4645	0.05485	0.05485	(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	10708	0.10000		(M)
* 182 Chrysene-d12	240	9.457	9.462	(1.000)	10074	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	11392	0.05551	0.05551	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	10810	0.10000		(M)
1 1,4-Dioxane	58	1.282	1.267	(0.477)	1338	0.22389	0.2239	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D

Date : 31-MAY-2024 19:33

Client ID:

Instrument: SV6.i

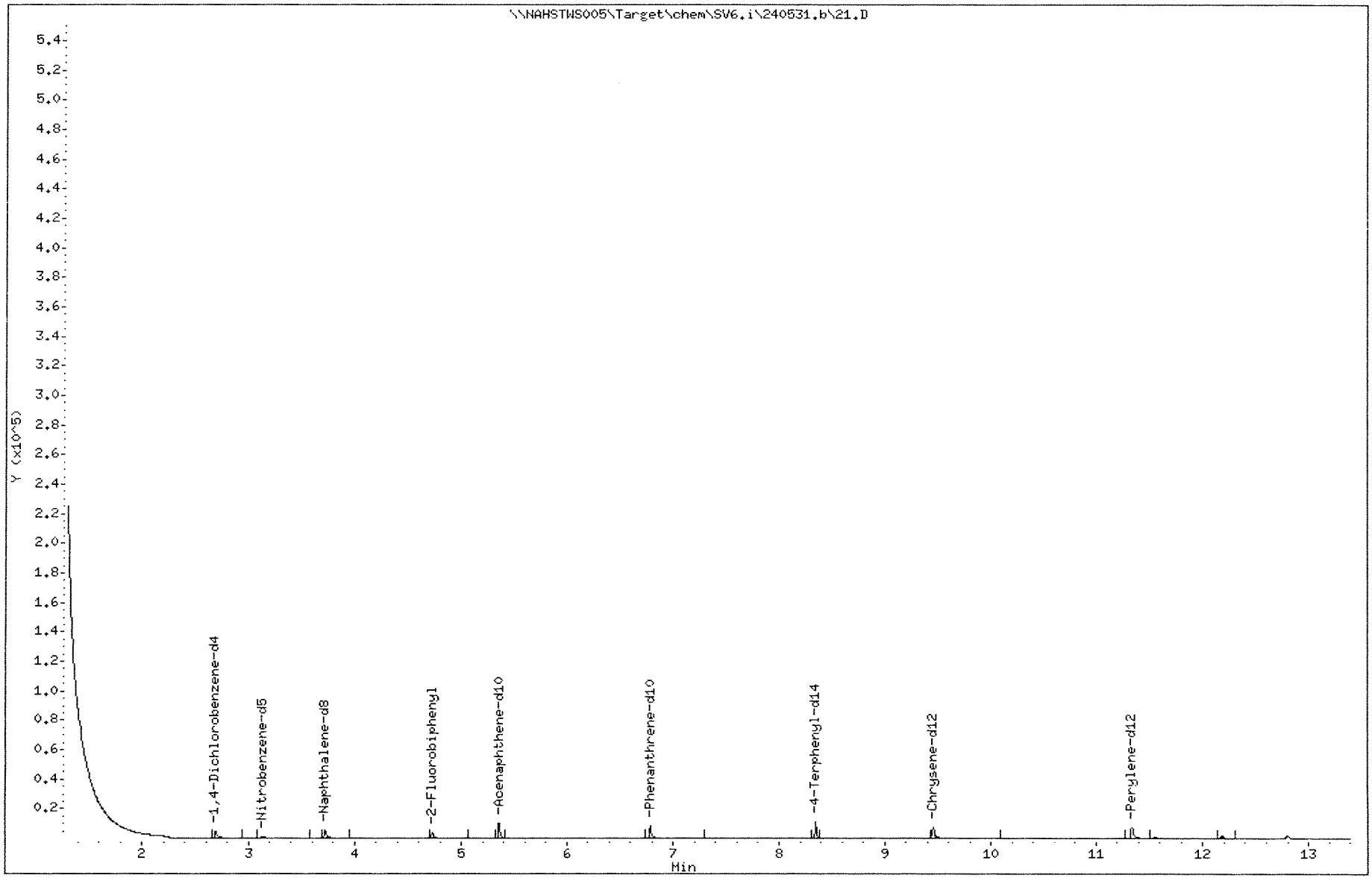
Sample Info: HS24051434-04

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D

Date : 31-MAY-2024 19:33

Client ID:

Instrument: SV6.i

Sample Info: HS24051434-04

Purge Volume: 1000.0

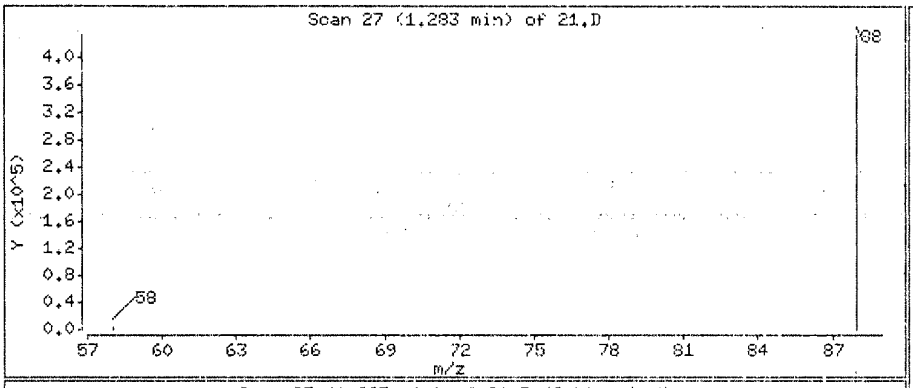
Operator: LG

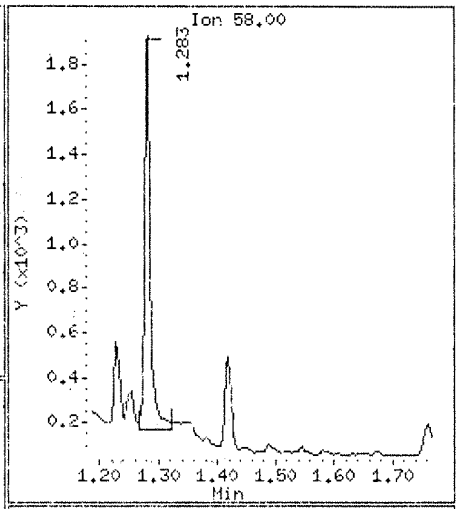
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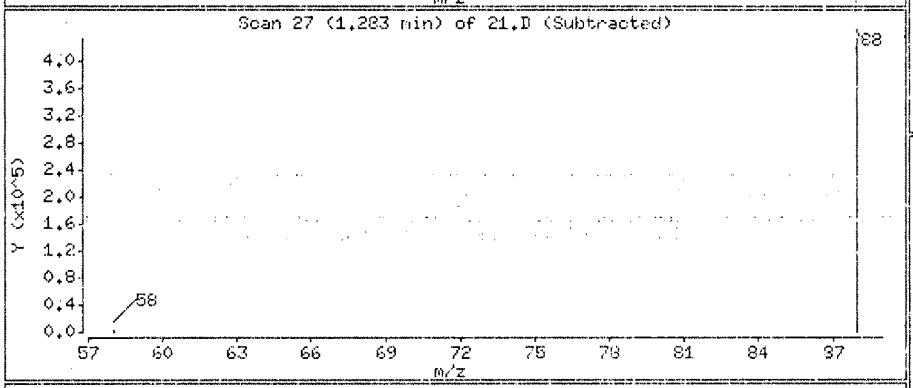
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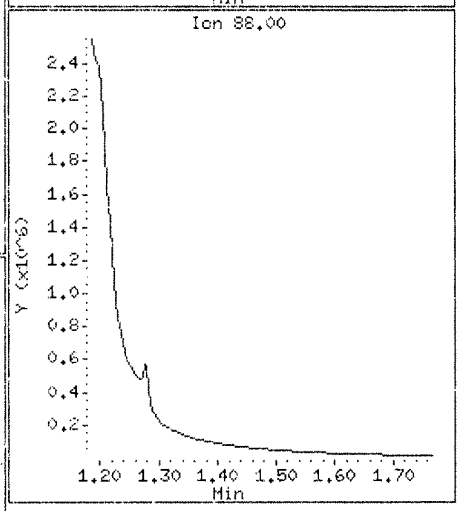
1 1,4-Dioxane

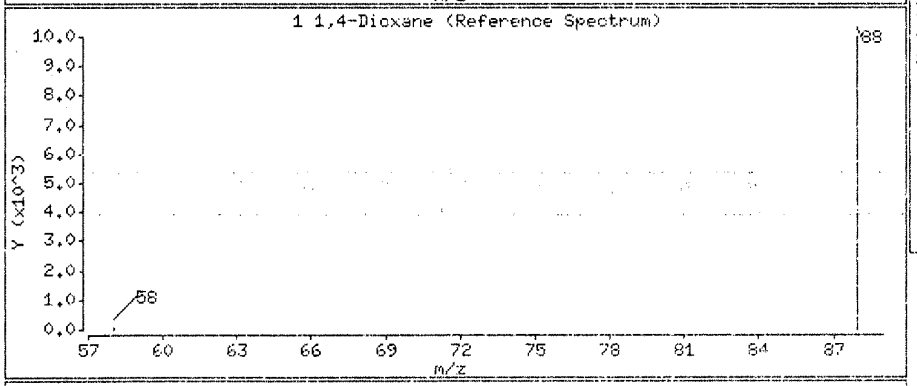
Concentration: 0.2239 ug/L

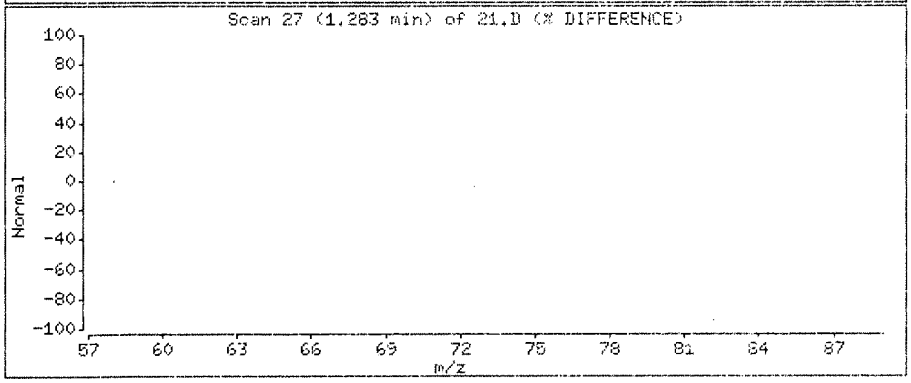










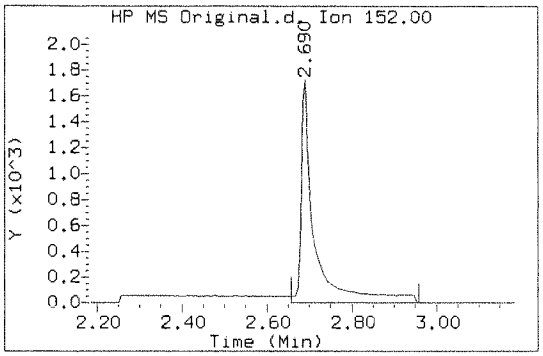


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InstruID : SV6.i
LabSampID : HS24051434-04

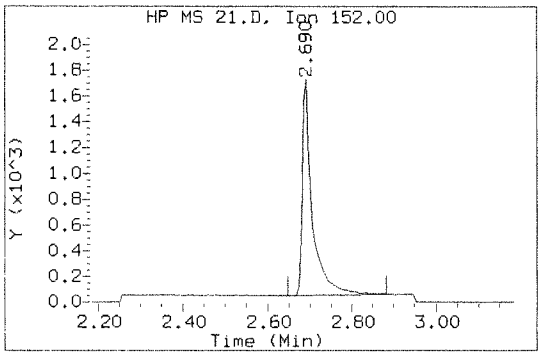
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

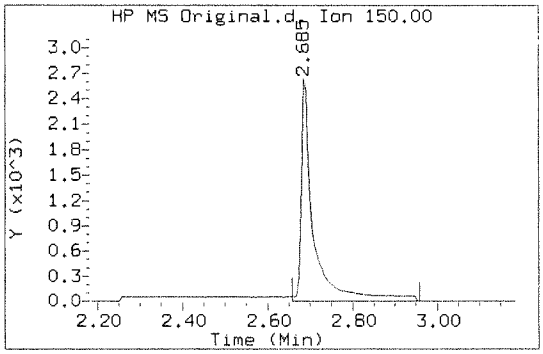
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31-May-2024
19:48
ALSHS
Server



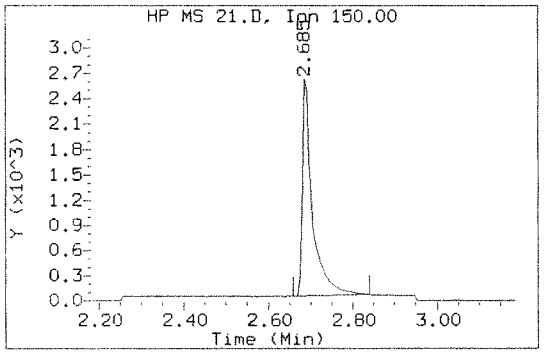
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HEIGHT
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03-Jun-2024
10:31



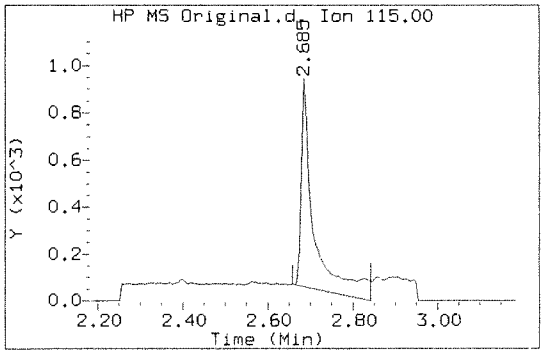
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2635
31-May-2024
19:48
ALSHS
Server



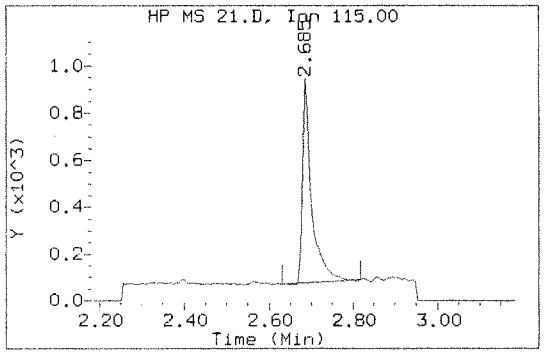
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MASS
150
AREA
4277
HEIGHT
2581
03-Jun-2024
10:31



BEFORE
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115
AREA
1835
HEIGHT
883
31-May-2024
19:48
ALSHS
Server



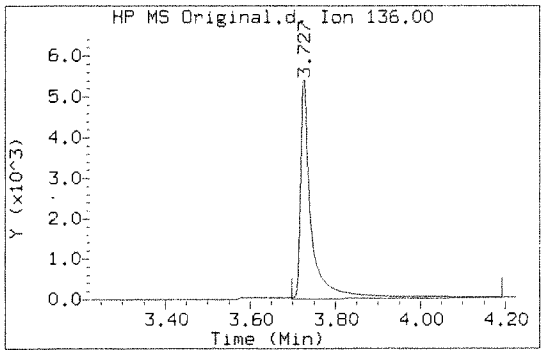
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HEIGHT
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03-Jun-2024
10:31



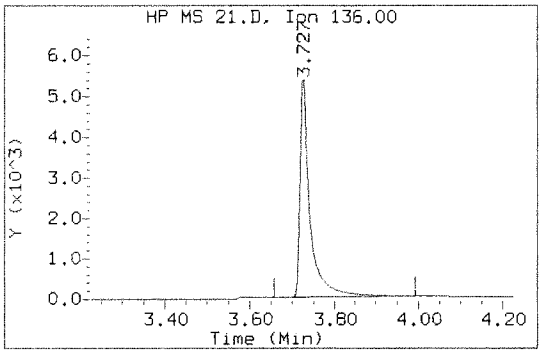
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9911
HEIGHT
5393
31-May-2024
19:48
ALSHS
Server



AFTER
MASS
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AREA
8841
HEIGHT
5352
03-Jun-2024
10:31

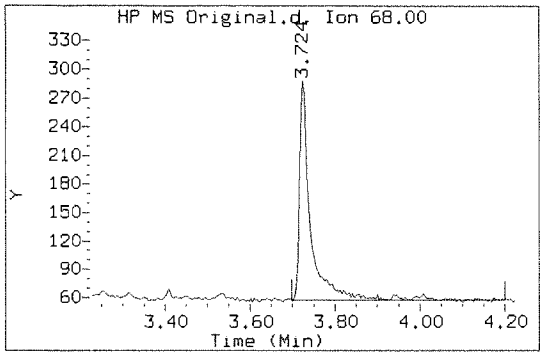


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Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

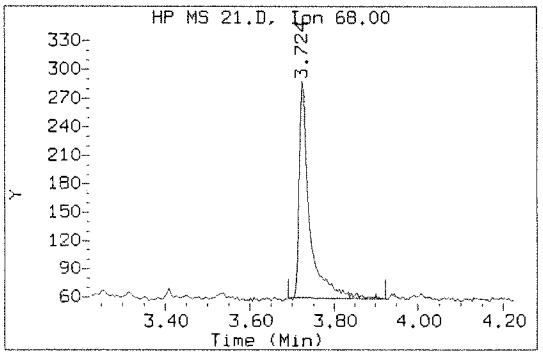
Naphthalene-d8 (1146-65-2)

Reason Code:

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AREA
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HEIGHT
231
31-May-2024
19:48
ALSHS
Server



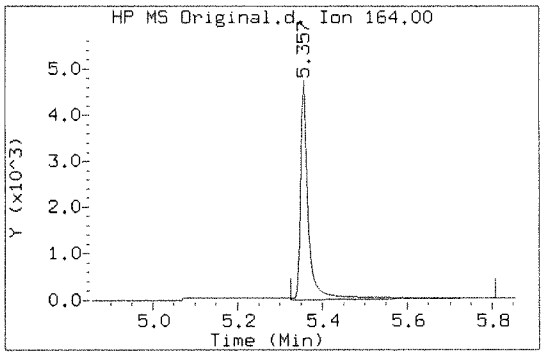
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MASS
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AREA
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HEIGHT
229
03-Jun-2024
10:31



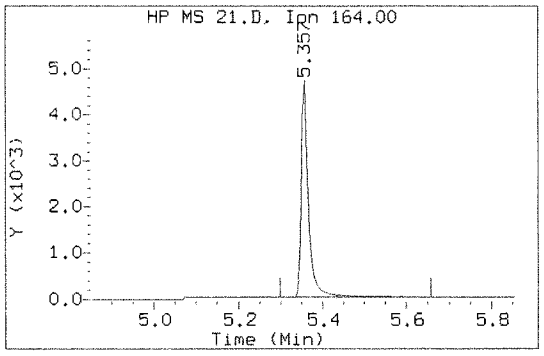
Acenaphthene-d10 (15067-26-2)

Reason Code:

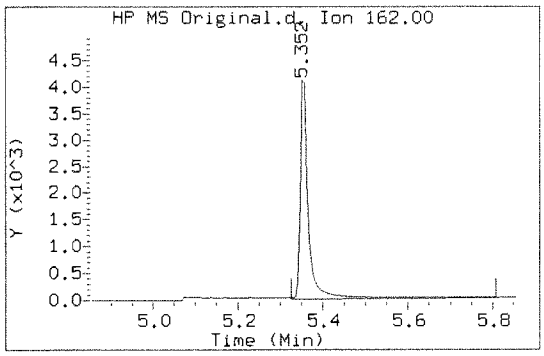
BEFORE
MASS
164
AREA
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HEIGHT
4738
31-May-2024
19:48
ALSHS
Server



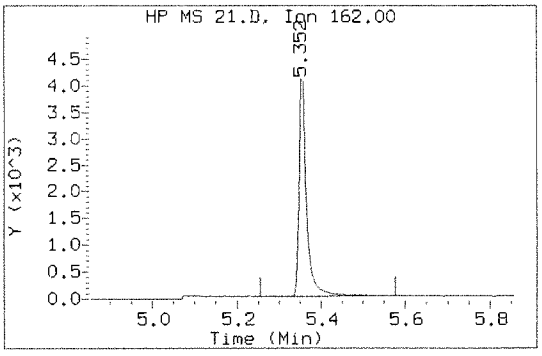
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03-Jun-2024
10:31



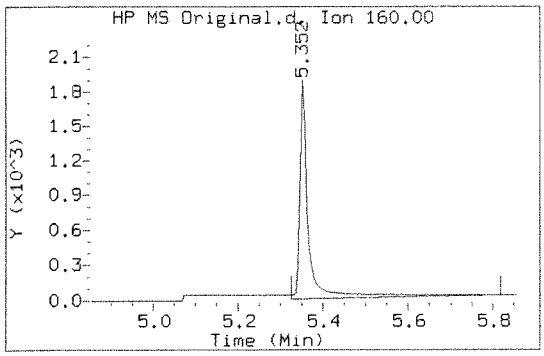
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19:48
ALSHS
Server



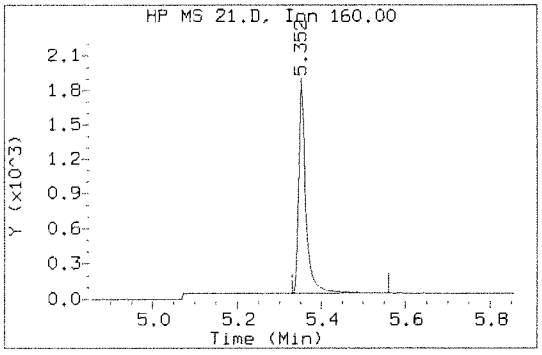
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AREA
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03-Jun-2024
10:31



BEFORE
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AREA
2696
HEIGHT
1885
31-May-2024
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ALSHS
Server



AFTER
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HEIGHT
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03-Jun-2024
10:31

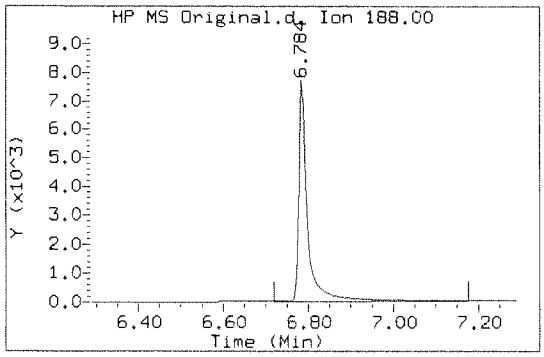


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

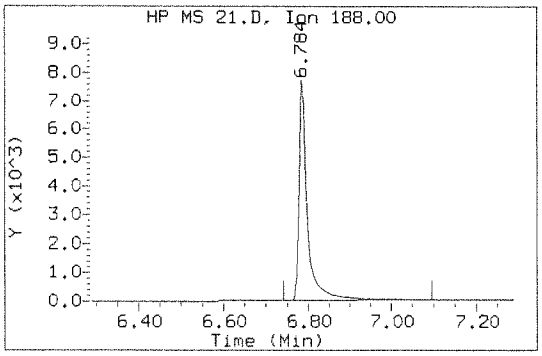
Phenanthrene-d10 (1517-22-2)

Reason Code:

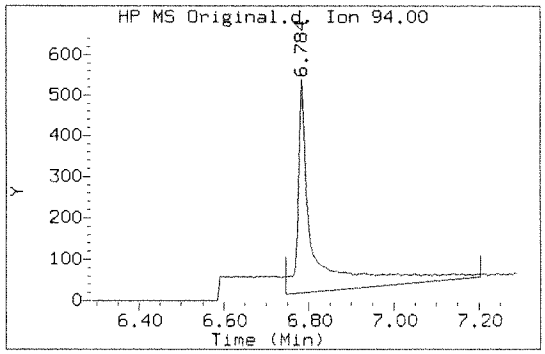
BEFORE
MASS
188
AREA
11463
HEIGHT
7733
31-May-2024
19:48
ALSHS
Server



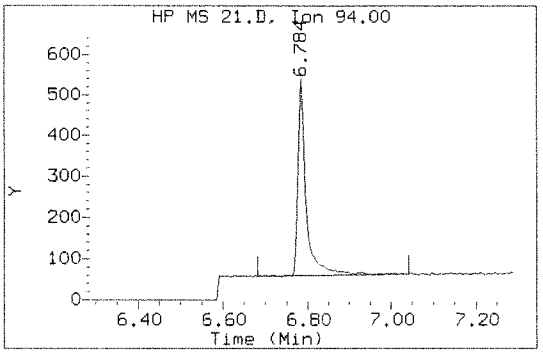
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03-Jun-2024
10:31



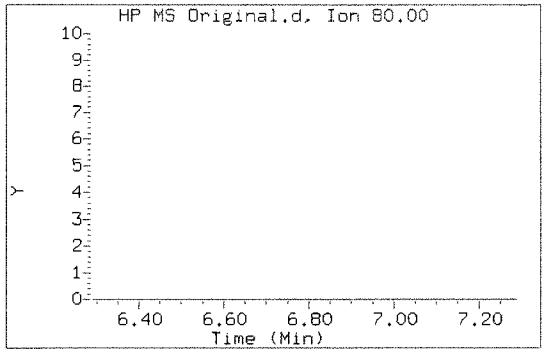
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MASS
94
AREA
1333
HEIGHT
520
31-May-2024
19:48
ALSHS
Server



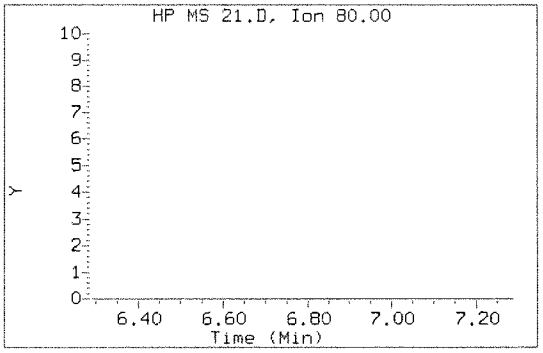
AFTER
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AREA
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HEIGHT
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03-Jun-2024
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BEFORE
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AREA
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HEIGHT
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31-May-2024
19:48
ALSHS
Server



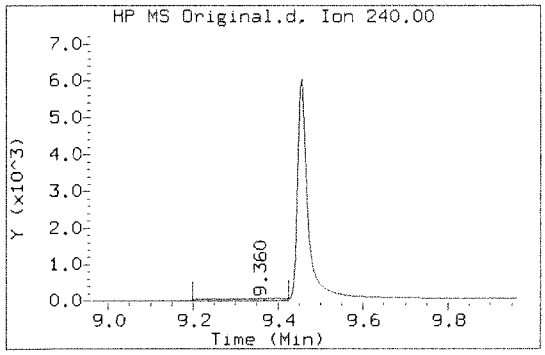
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03-Jun-2024
10:31



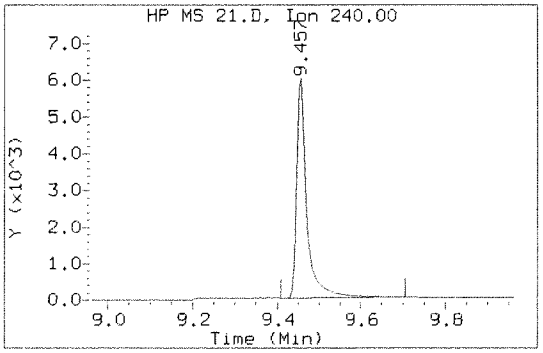
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
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HEIGHT
63
31-May-2024
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ALSHS
Server



AFTER
MASS
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AREA
10074
HEIGHT
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03-Jun-2024
10:31

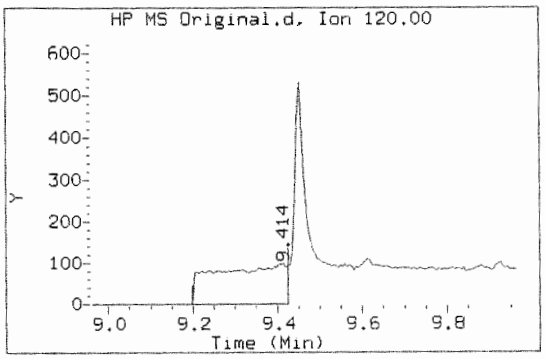


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abSampID : HS24051434-04

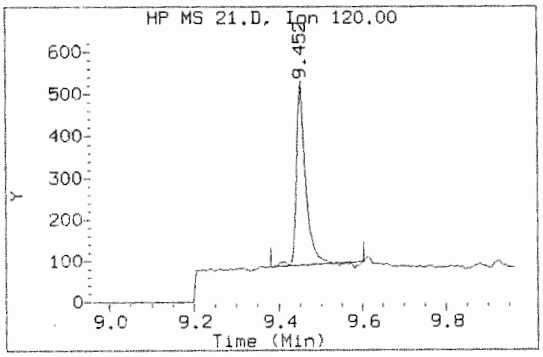
hrysene-d12 (1719-03-5)

Reason Code:

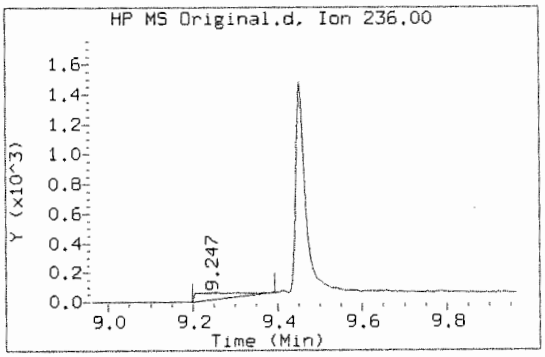
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EIGHT
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1-May-2024
9:48
LSHS
Server



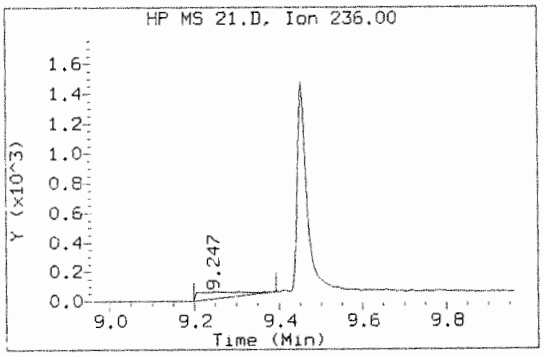
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AREA
634
HEIGHT
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03-Jun-2024
10:31



BEFORE
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AREA
329
HEIGHT
47
31-May-2024
19:48
ALSHS
Server



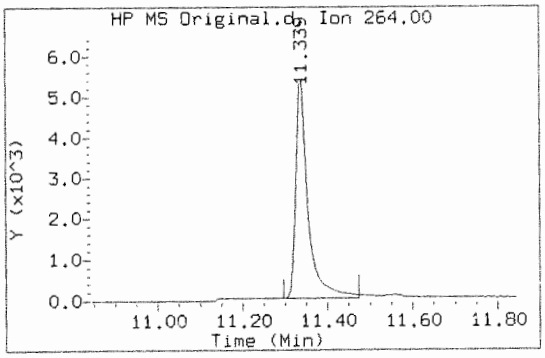
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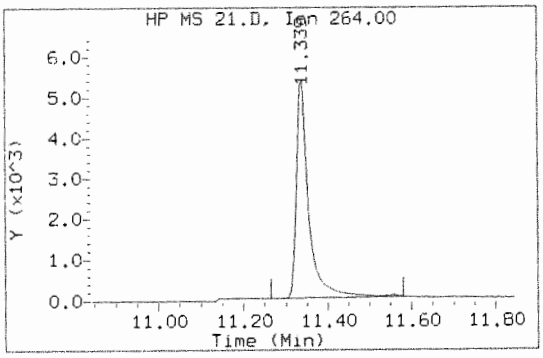
Perylene-d12 (1520-96-3)

Reason Code:

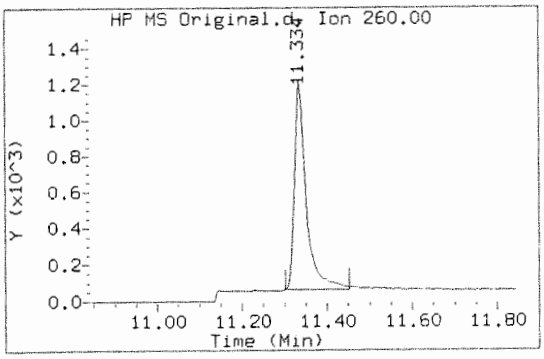
BEFORE
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HEIGHT
5341
31-May-2024
19:48
ALSHS
Server



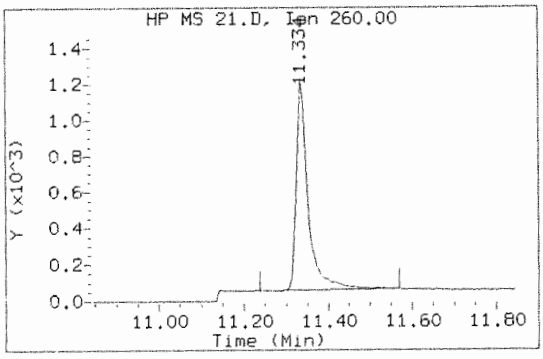
AFTER
MASS
264
AREA
10810
HEIGHT
5331
03-Jun-2024
10:31



BEFORE
MASS
260
AREA
2192
HEIGHT
1156
31-May-2024
19:48
ALSHS
Server



AFTER
MASS
260
AREA
2217
HEIGHT
1157
03-Jun-2024
10:31

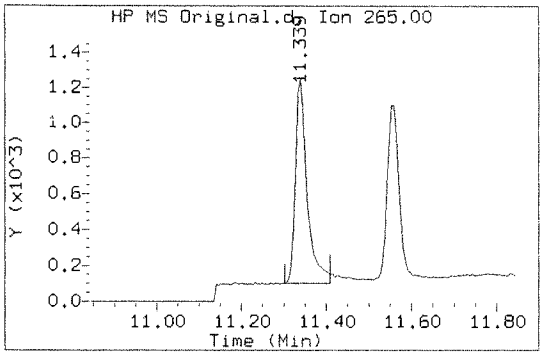


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

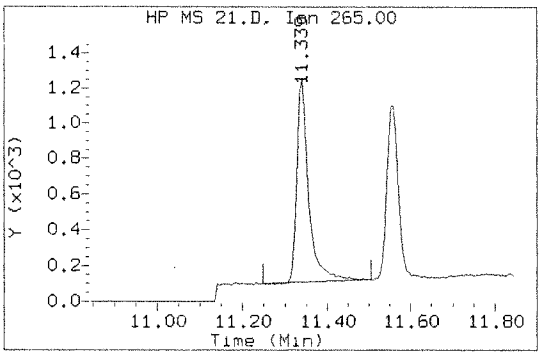
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
2193
HEIGHT
1149
31-May-2024
19:48
ALSHS
Server



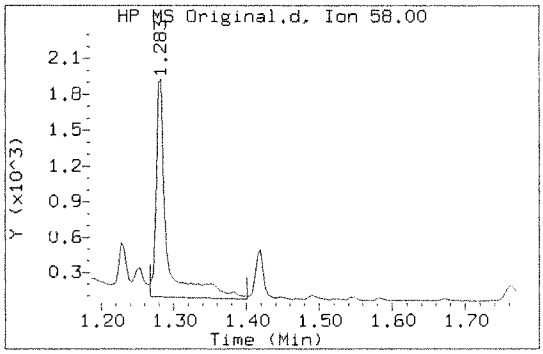
AFTER
MASS
265
AREA
2173
HEIGHT
1139
03-Jun-2024
10:31



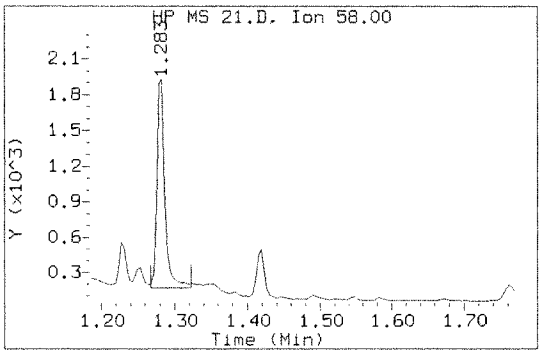
1,4-Dioxane ()

Reason Code:

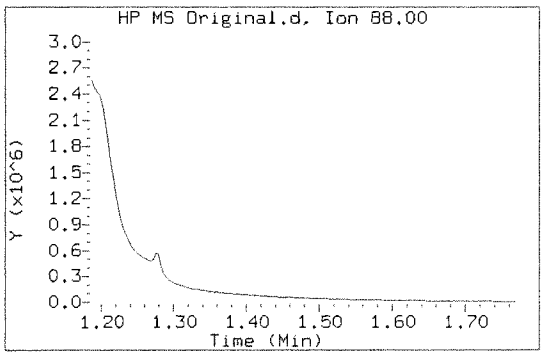
BEFORE
MASS
58
AREA
1990
HEIGHT
1836
31-May-2024
19:48
ALSHS
Server



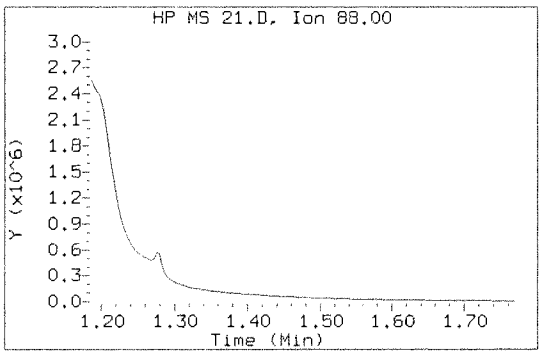
AFTER
MASS
58
AREA
1338
HEIGHT
1758
03-Jun-2024
10:31



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
19:48
ALSHS
Server



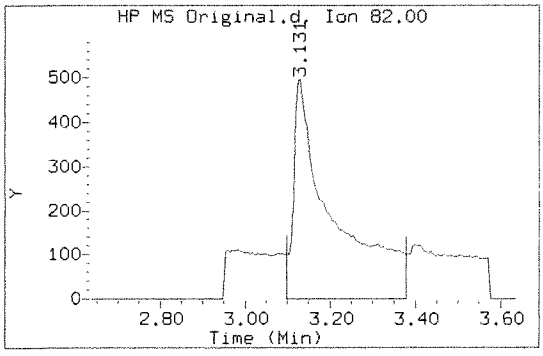
AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jun-2024
10:31



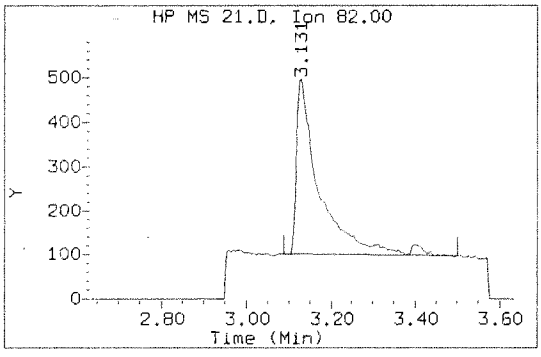
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
3161
HEIGHT
496
31-May-2024
19:48
ALSHS
Server



AFTER
MASS
82
AREA
1499
HEIGHT
394
03-Jun-2024
10:31

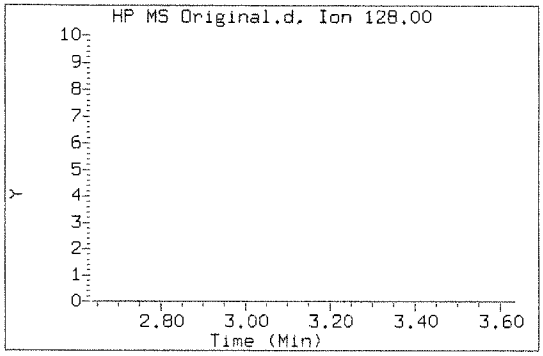


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

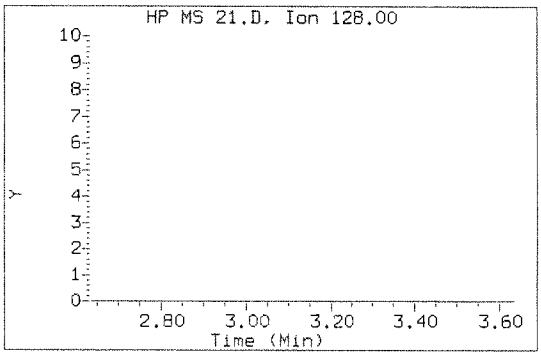
Nitrobenzene-d5 (4165-60-0)

Reason Code:

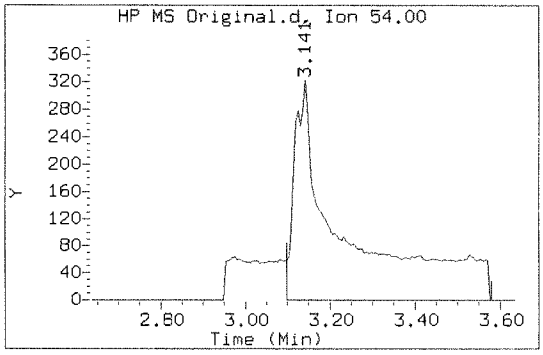
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
19:48
ALSHS
Server



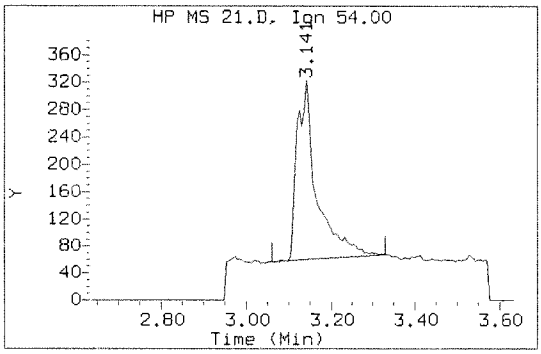
AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
10:31



BEFORE
MASS
54
AREA
2617
HEIGHT
323
31-May-2024
19:48
ALSHS
Server



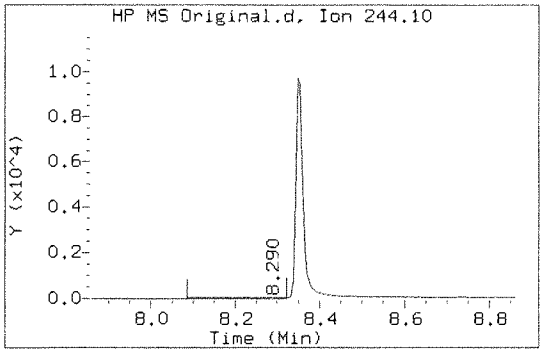
AFTER
MASS
54
AREA
851
HEIGHT
263
03-Jun-2024
10:31



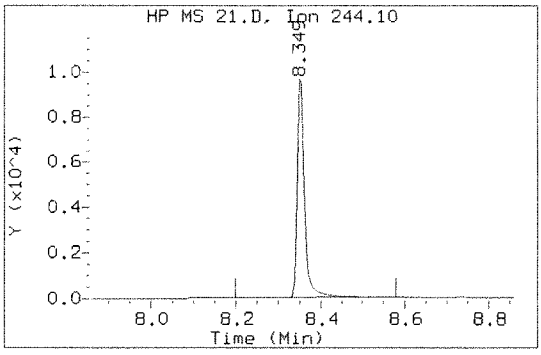
4-Terphenyl-d14 (1718-51-0)

Reason Code:

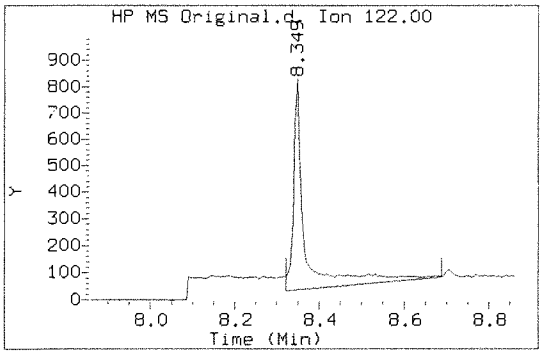
BEFORE
MASS
244.1
AREA
794
HEIGHT
59
31-May-2024
19:48
ALSHS
Server



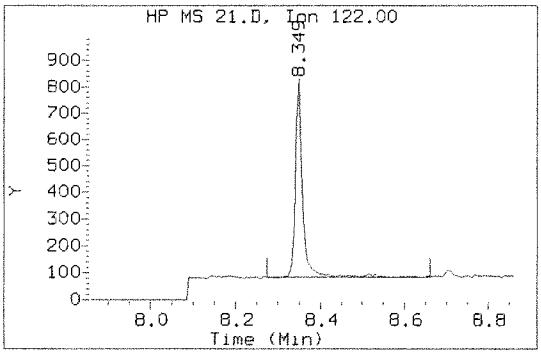
AFTER
MASS
244.1
AREA
11392
HEIGHT
9649
03-Jun-2024
10:31



BEFORE
MASS
122
AREA
1458
HEIGHT
793
31-May-2024
19:48
ALSHS
Server



AFTER
MASS
122
AREA
882
HEIGHT
746
03-Jun-2024
10:31



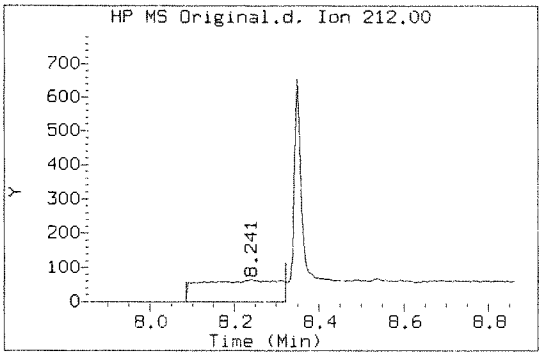
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\21.D
Inj Date : 31-MAY-2024 19:33
InstruID : SV6.i
LabSampID : HS24051434-04

4-Terphenyl-d14 (1718-51-0)

Reason Code:

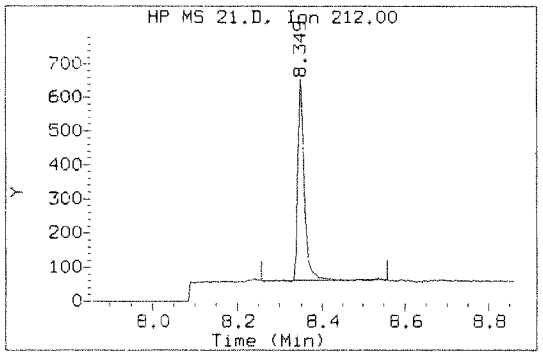
BEFORE

MASS
212
AREA
837
HEIGHT
66
31-May-2024
19:48
ALSHS
Server



AFTER

MASS
212
AREA
617
HEIGHT
523
03-Jun-2024
10:31

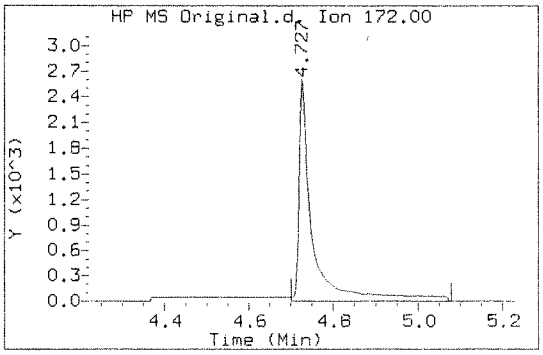


2-Fluorobiphenyl (321-60-8)

Reason Code:

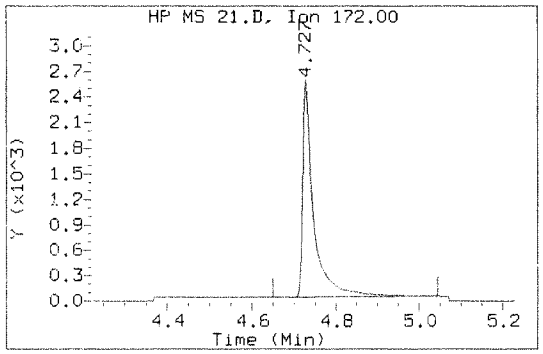
BEFORE

MASS
172
AREA
5855
HEIGHT
2605
31-May-2024
19:48
ALSHS
Server



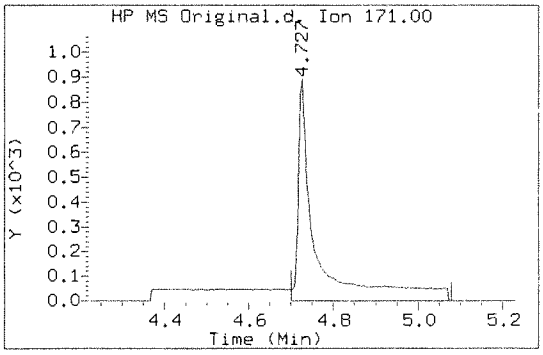
AFTER

MASS
172
AREA
4645
HEIGHT
2556
03-Jun-2024
10:31



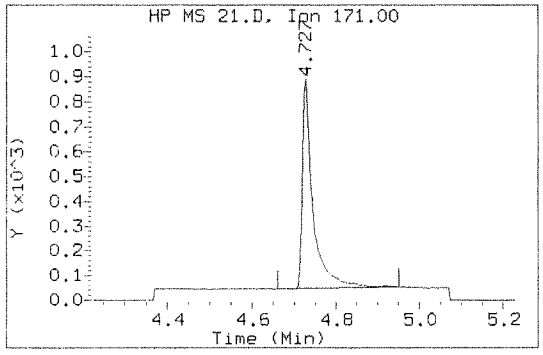
BEFORE

MASS
171
AREA
2642
HEIGHT
892
31-May-2024
19:48
ALSHS
Server



AFTER

MASS
171
AREA
1498
HEIGHT
843
03-Jun-2024
10:31



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\22.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\22.D
Lab Smp Id: HS24051434-05
Inj Date : 31-MAY-2024 19:50
Operator : LG Inst ID: SV6.i
Smp Info : HS24051434-05
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

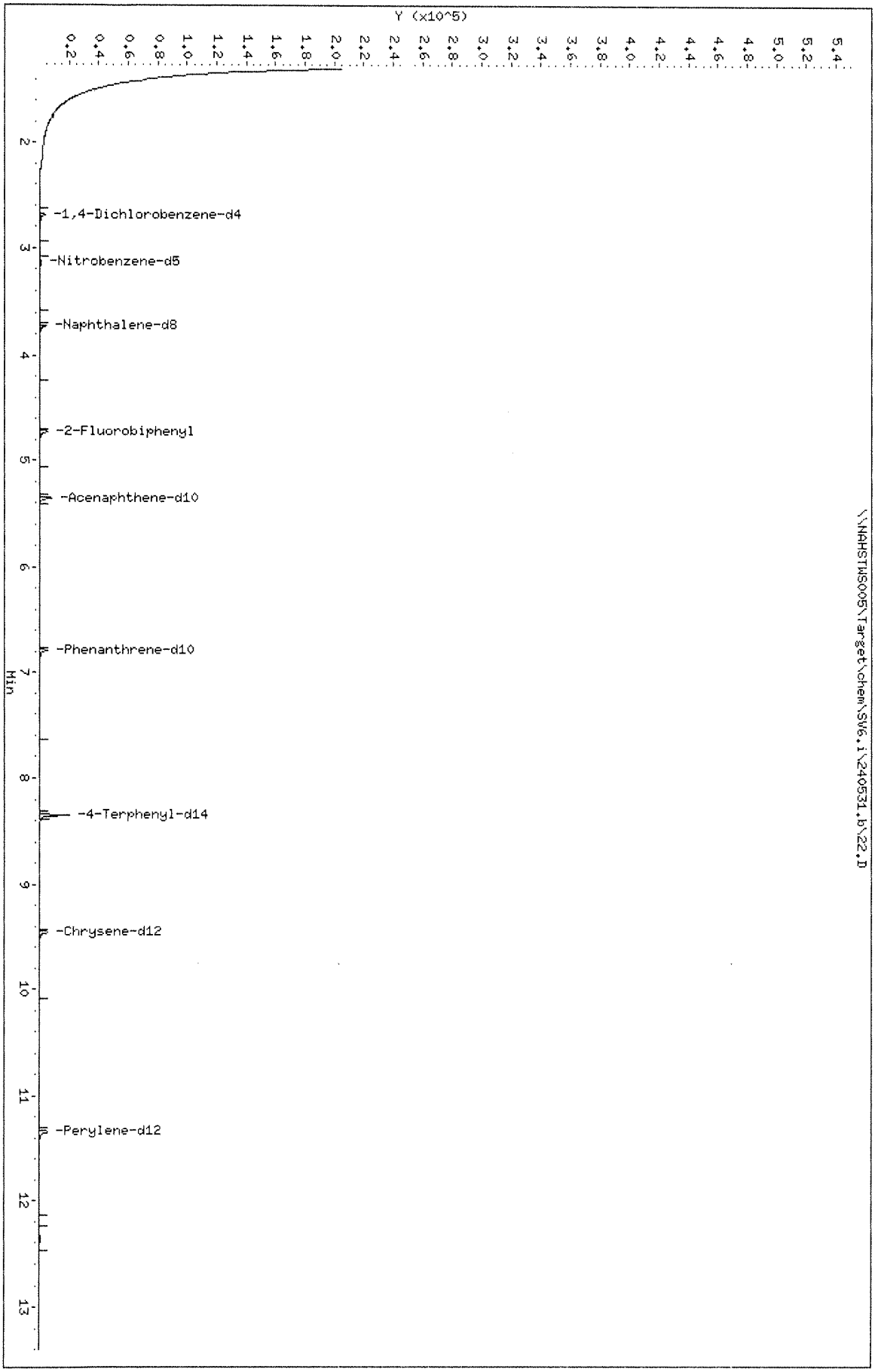
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2268	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	7376	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.125	3.135	(0.838)	2448	0.11055	0.1106	(M)
* 86 Acenaphthene-d10	164	5.357	5.356	(1.000)	4841	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	6922	0.09354	0.09354	(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	8634	0.10000		(M)
* 182 Chrysene-d12	240	9.457	9.462	(1.000)	8377	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	18535	0.10861	0.1086	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	9069	0.10000		
1 1,4-Dioxane	58	1.268	1.267	(0.471)	329	0.06772	0.06772	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\22.D
Date : 31-MAY-2024 19:50
Client ID:
Sample Info: HS24051434-05
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\22.D

Date : 31-MAY-2024 19:50

Client ID:

Instrument: SV6.i

Sample Info: HS24051434-05

Purge Volume: 1000.0

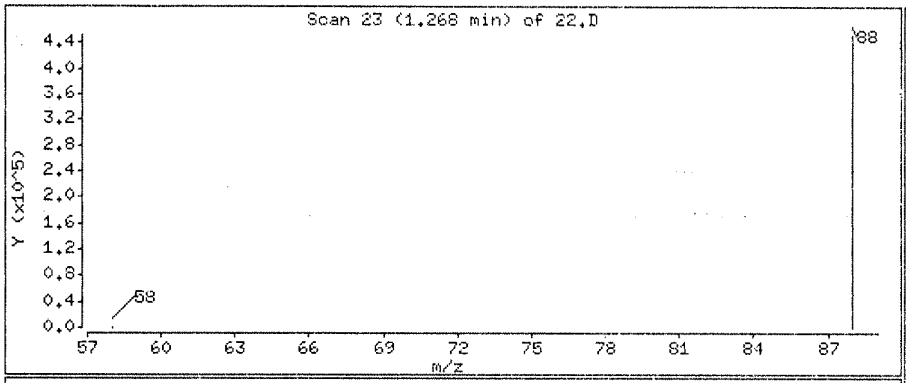
Operator: LG

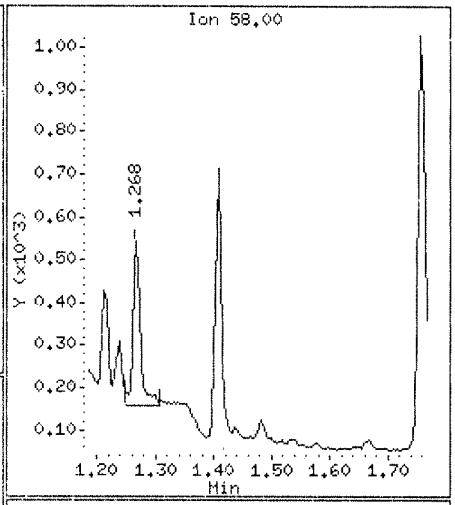
Column phase: RTX-5SIL MS

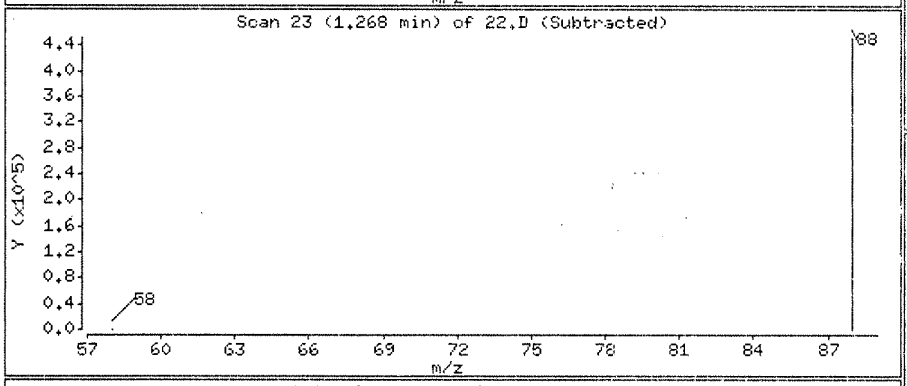
Column diameter: 0.28

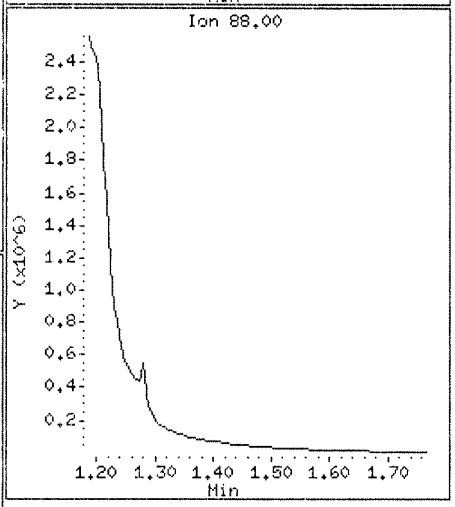
1 1,4-Dioxane

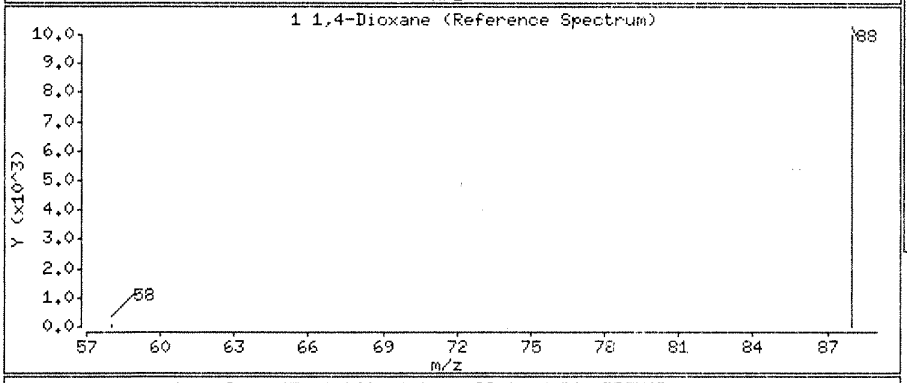
Concentration: 0.06772 ug/L

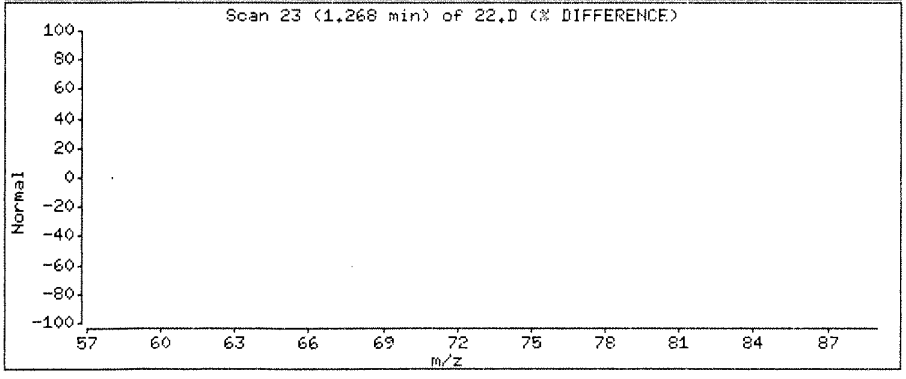












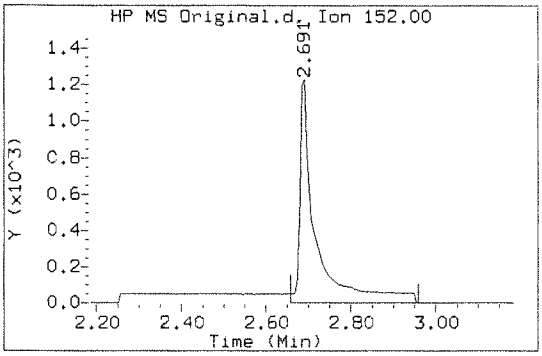
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\22.D
Inj Date : 31-MAY-2024 19:50
InstruID : SV6.i
LabSampID : HS24051434-05

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

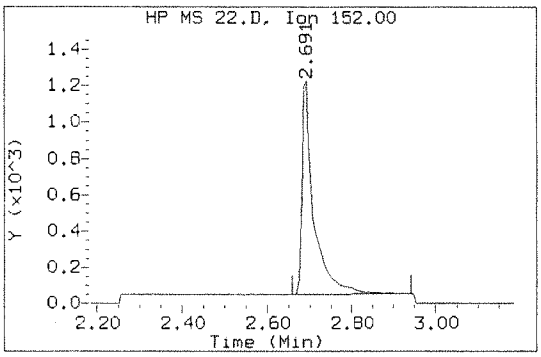
BEFORE

MASS 152
AREA 3190
HEIGHT 1228
31-May-2024 20:04
ALSHS Server



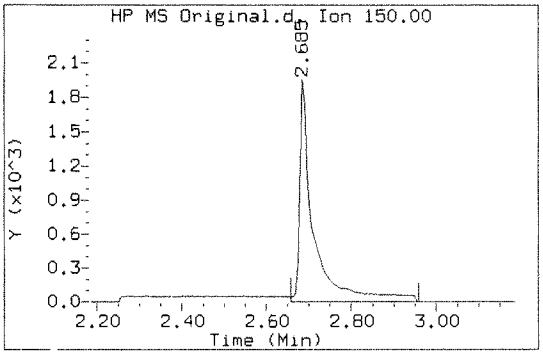
AFTER

MASS 152
AREA 2268
HEIGHT 1178
03-Jun-2024 11:23



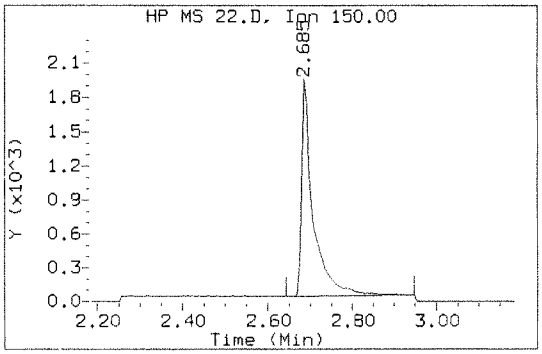
BEFORE

MASS 150
AREA 4521
HEIGHT 1957
31-May-2024 20:04
ALSHS Server



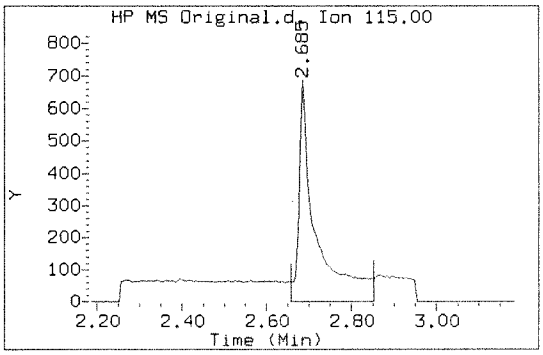
AFTER

MASS 150
AREA 3595
HEIGHT 1908
03-Jun-2024 11:23



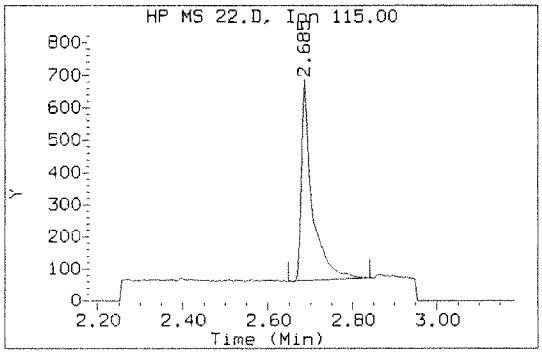
BEFORE

MASS 115
AREA 1896
HEIGHT 687
31-May-2024 20:04
ALSHS Server



AFTER

MASS 115
AREA 1099
HEIGHT 623
03-Jun-2024 11:23

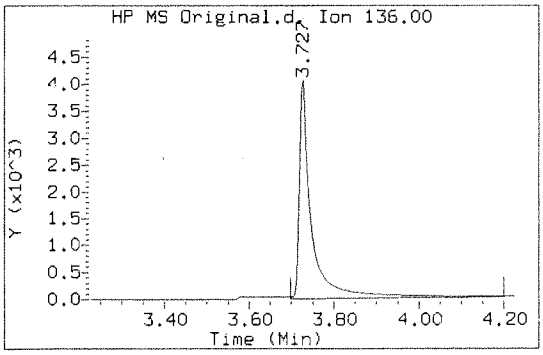


Naphthalene-d8 (1146-65-2)

Reason Code:

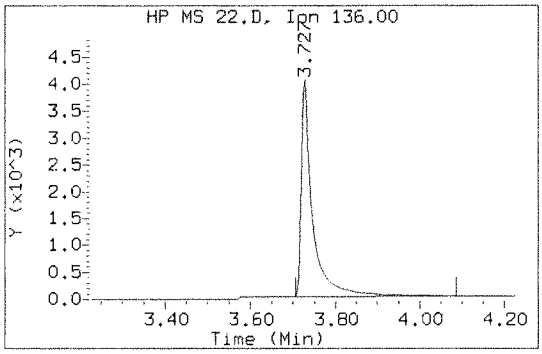
BEFORE

MASS 136
AREA 8243
HEIGHT 4067
31-May-2024 20:04
ALSHS Server



AFTER

MASS 136
AREA 7376
HEIGHT 4027
03-Jun-2024 11:23



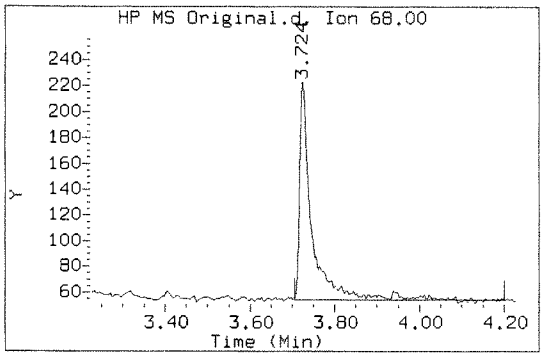
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Inj Date : 31-MAY-2024 19:50
InstruID : SV6.i
LabSampID : HS24051434-05

Naphthalene-d8 (1146-65-2)

Reason Code:

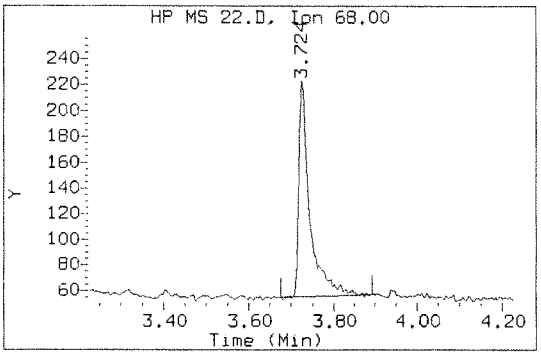
BEFORE

MASS
68
AREA
349
HEIGHT
169
31-May-2024
20:04
ALSHS
Server



AFTER

MASS
68
AREA
302
HEIGHT
167
03-Jun-2024
11:23

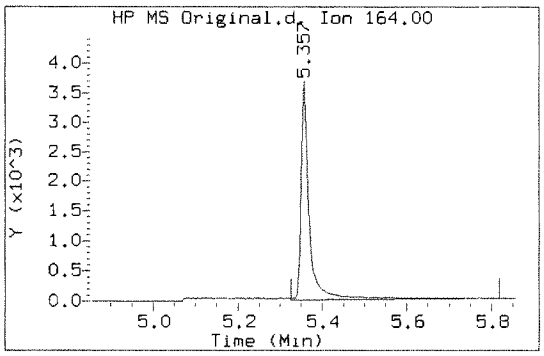


Acenaphthene-d10 (15067-26-2)

Reason Code:

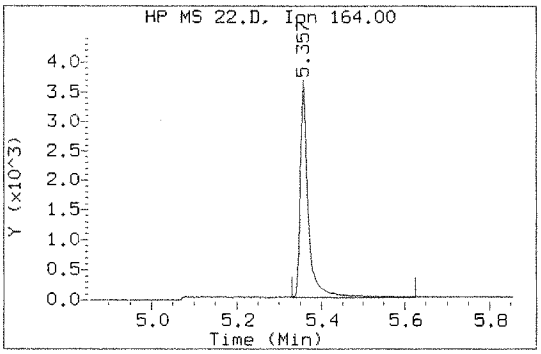
BEFORE

MASS
164
AREA
5220
HEIGHT
3688
31-May-2024
20:04
ALSHS
Server



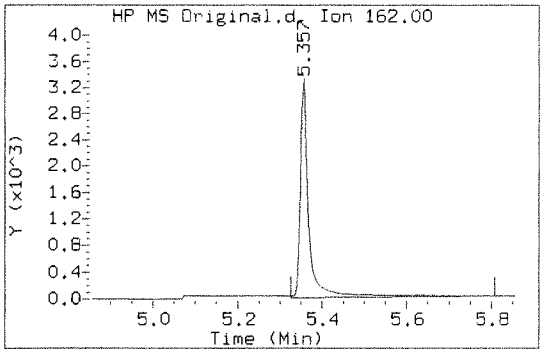
AFTER

MASS
164
AREA
4841
HEIGHT
3667
03-Jun-2024
11:23



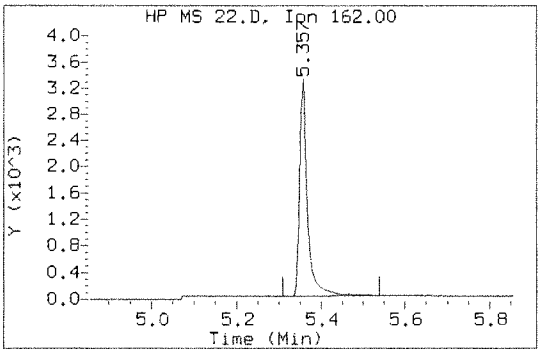
BEFORE

MASS
162
AREA
4817
HEIGHT
3324
31-May-2024
20:04
ALSHS
Server



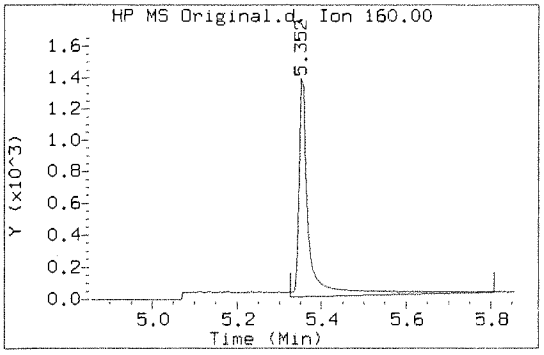
AFTER

MASS
162
AREA
4170
HEIGHT
3291
03-Jun-2024
11:23



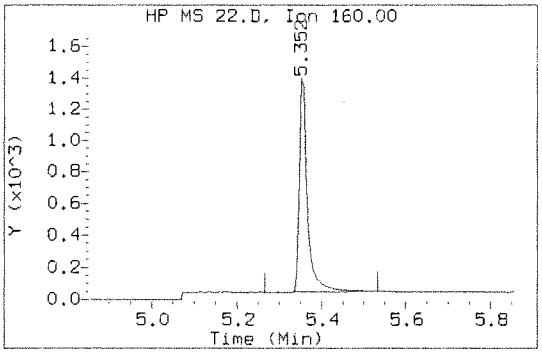
BEFORE

MASS
160
AREA
2315
HEIGHT
1381
31-May-2024
20:04
ALSHS
Server



AFTER

MASS
160
AREA
1784
HEIGHT
1351
03-Jun-2024
11:23



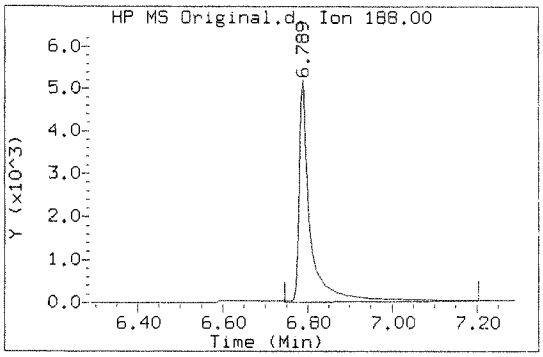
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Inj Date : 31-MAY-2024 19:50
InstruID : SV6.i
LabSampID : HS24051434-05

Phenanthrene-d10 (1517-22-2)

Reason Code:

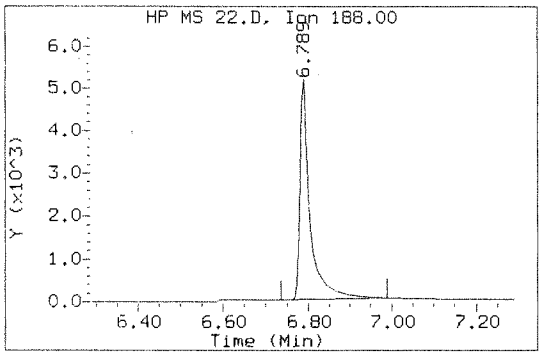
BEFORE

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188
AREA
9704
HEIGHT
5196
31-May-2024
20:04
ALSHS
Server



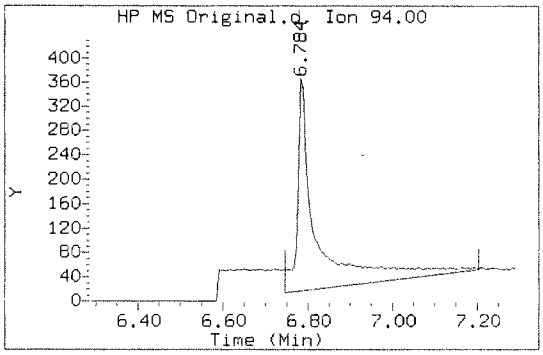
AFTER

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188
AREA
8634
HEIGHT
5158
03-Jun-2024
11:23



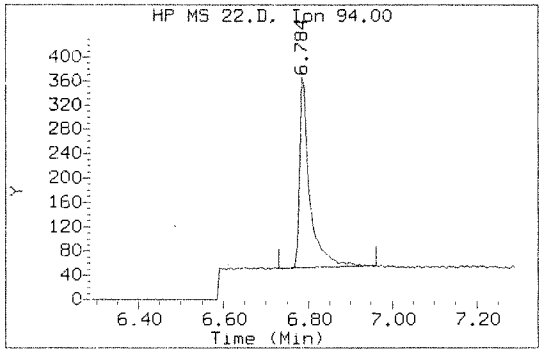
BEFORE

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94
AREA
1103
HEIGHT
348
31-May-2024
20:04
ALSHS
Server



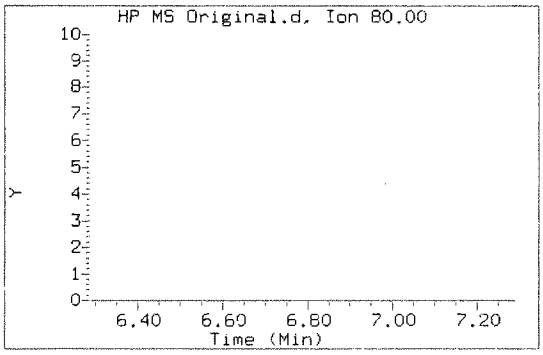
AFTER

MASS
94
AREA
518
HEIGHT
313
03-Jun-2024
11:23



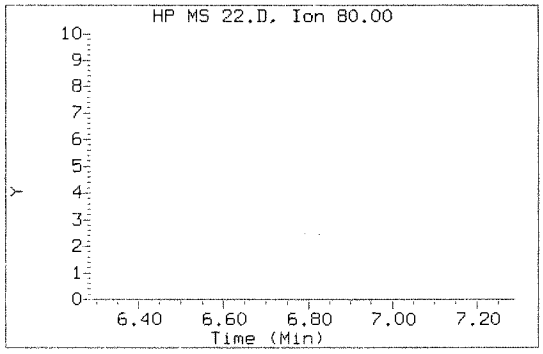
BEFORE

MASS
80
AREA
0
HEIGHT
0
31-May-2024
20:04
ALSHS
Server



AFTER

MASS
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AREA
0
HEIGHT
0
03-Jun-2024
11:23

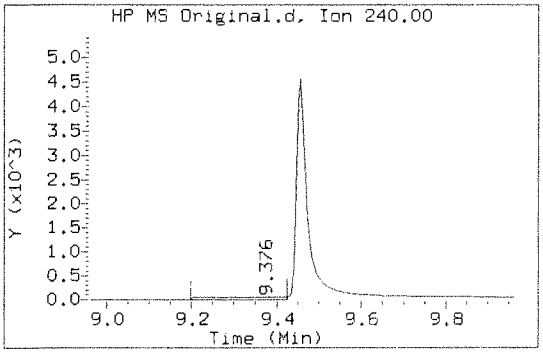


Chrysene-d12 (1719-03-5)

Reason Code:

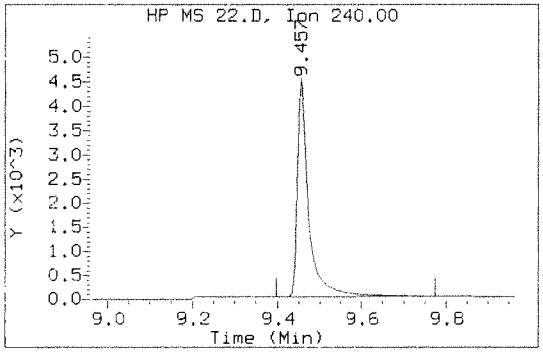
BEFORE

MASS
240
AREA
666
HEIGHT
52
31-May-2024
20:04
ALSHS
Server



AFTER

MASS
240
AREA
8377
HEIGHT
4513
03-Jun-2024
11:23

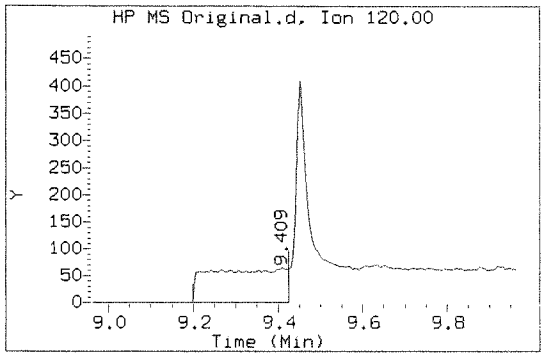


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LabSampID : HS24051434-05

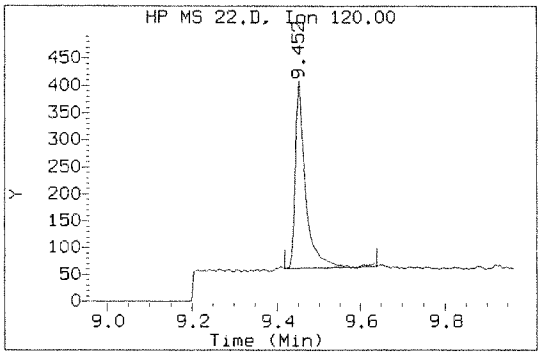
Chrysene-d12 (1719-03-5)

Reason Code:

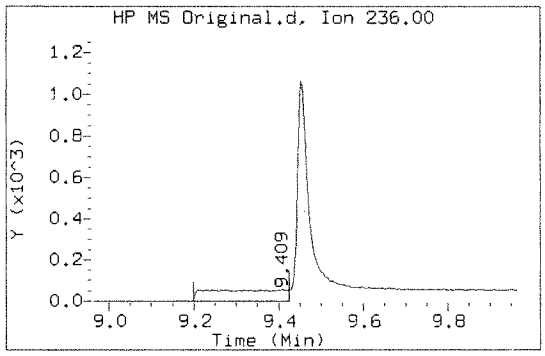
BEFORE
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AREA
790
HEIGHT
65
31-May-2024
20:04
ALSHS
Server



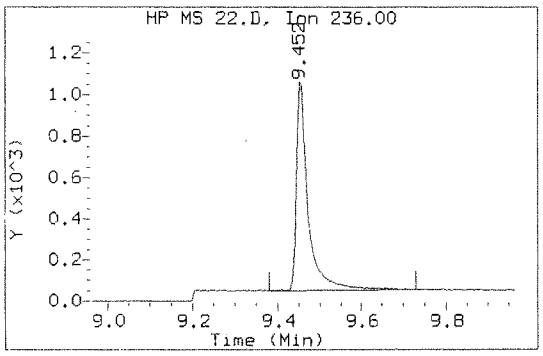
AFTER
MASS
120
AREA
580
HEIGHT
346
03-Jun-2024
11:23



BEFORE
MASS
236
AREA
689
HEIGHT
54
31-May-2024
20:04
ALSHS
Server



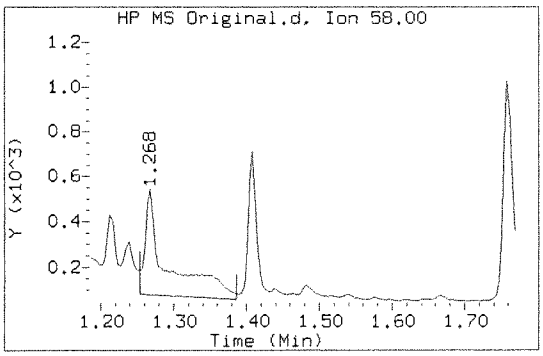
AFTER
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236
AREA
1936
HEIGHT
1013
03-Jun-2024
11:23



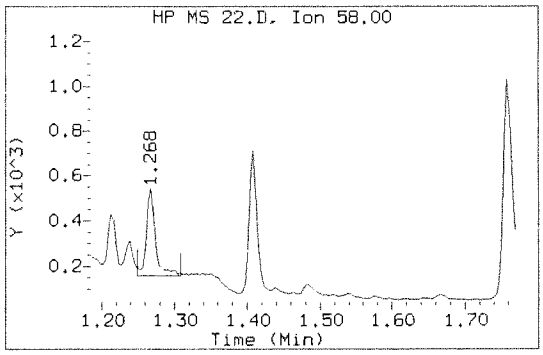
1,4-Dioxane ()

Reason Code:

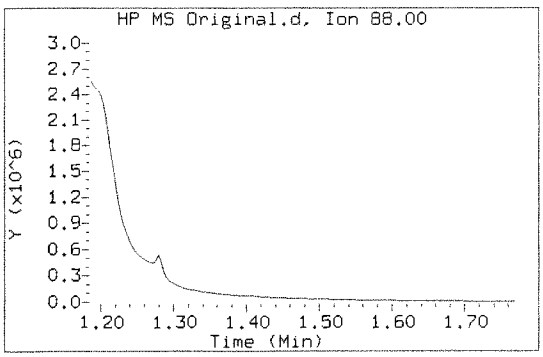
BEFORE
MASS
58
AREA
967
HEIGHT
464
31-May-2024
20:04
ALSHS
Server



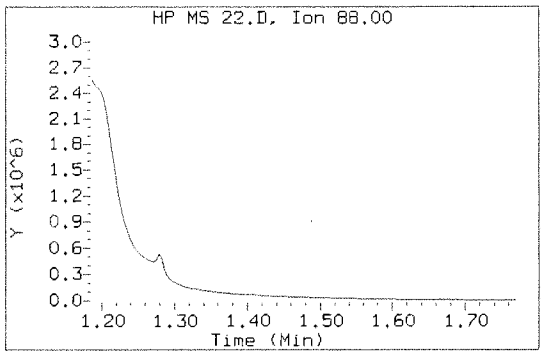
AFTER
MASS
58
AREA
329
HEIGHT
386
03-Jun-2024
11:23



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
20:04
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jun-2024
11:23

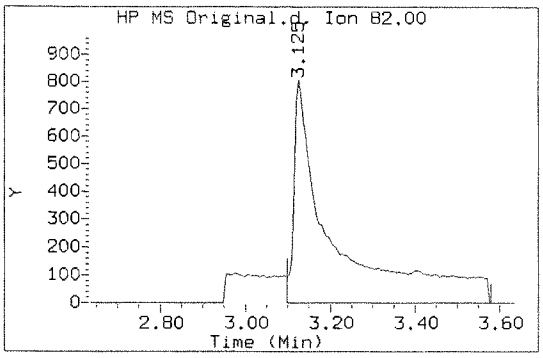


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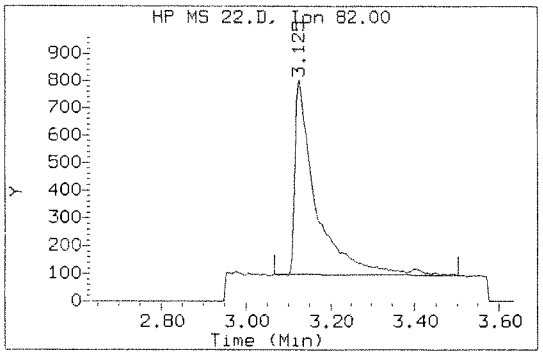
Nitrobenzene-d5 (4165-60-0)

Reason Code:

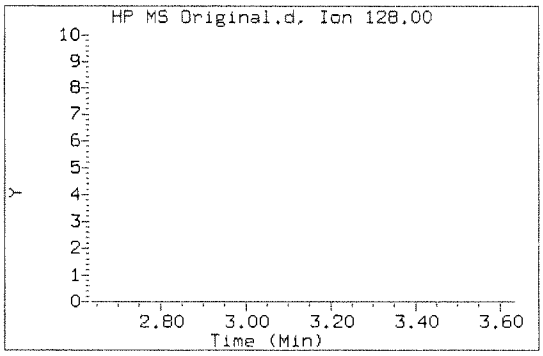
BEFORE
MASS
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AREA
5135
HEIGHT
807
31-May-2024
20:04
ALSHS
Server



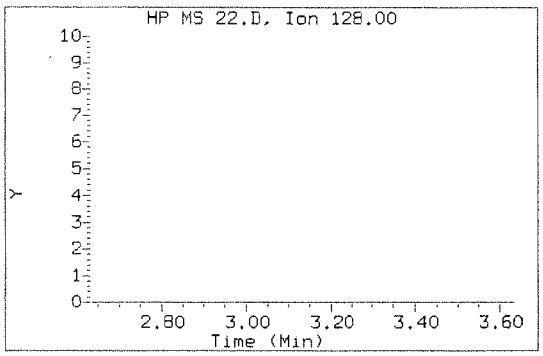
AFTER
MASS
82
AREA
2448
HEIGHT
710
03-Jun-2024
11:23



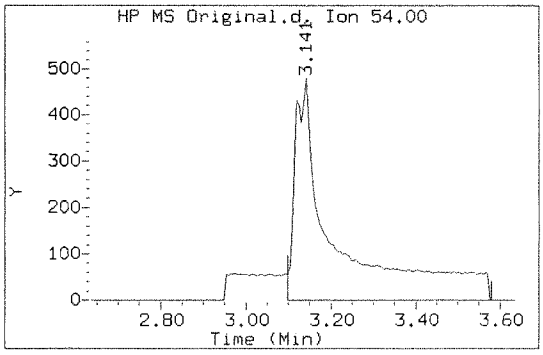
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
20:04
ALSHS
Server



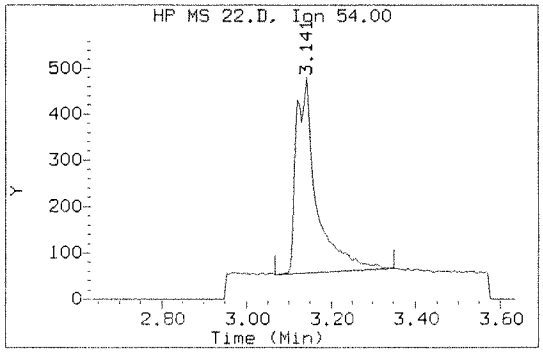
AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
11:23



BEFORE
MASS
54
AREA
3131
HEIGHT
480
31-May-2024
20:04
ALSHS
Server



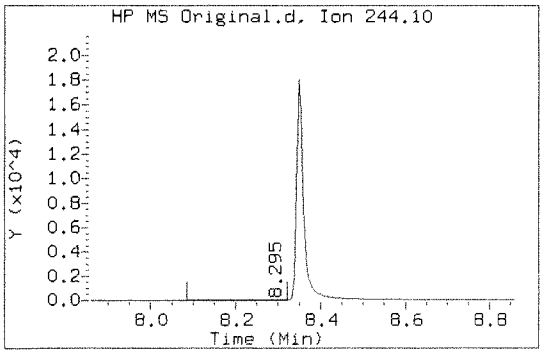
AFTER
MASS
54
AREA
1413
HEIGHT
423
03-Jun-2024
11:23



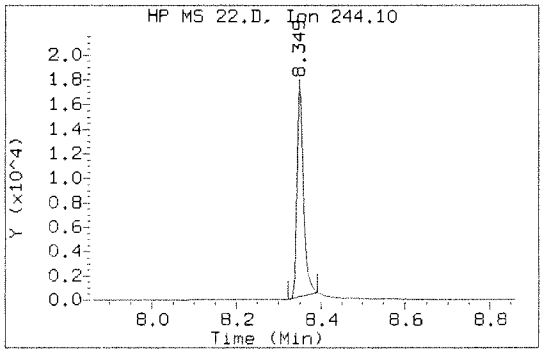
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
660
HEIGHT
48
31-May-2024
20:04
ALSHS
Server



AFTER
MASS
244.1
AREA
18535
HEIGHT
17774
03-Jun-2024
11:23

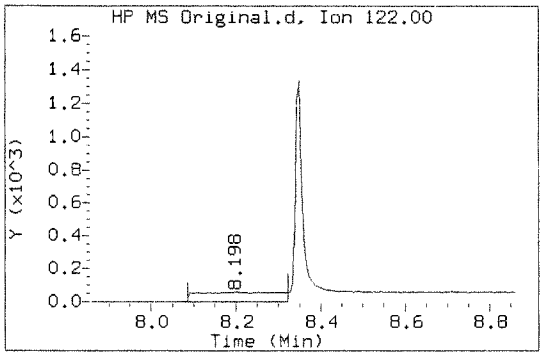


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InstruID : SV6.i
LabSampID : HS24051434-05

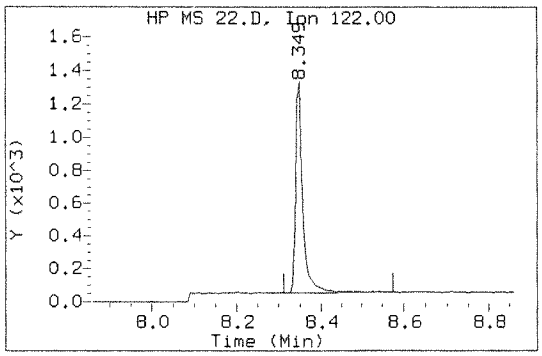
4-Terphenyl-d14 (1718-51-0)

Reason Code:

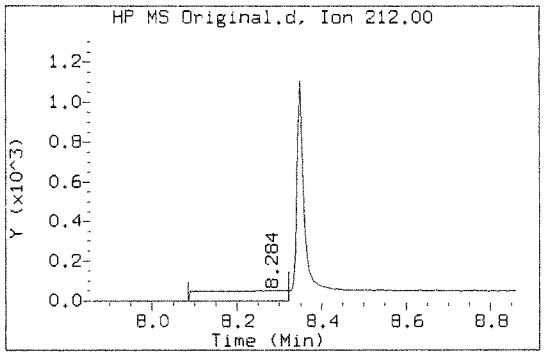
BEFORE
MASS
122
AREA
758
HEIGHT
56
31-May-2024
20:04
ALSHS
Server



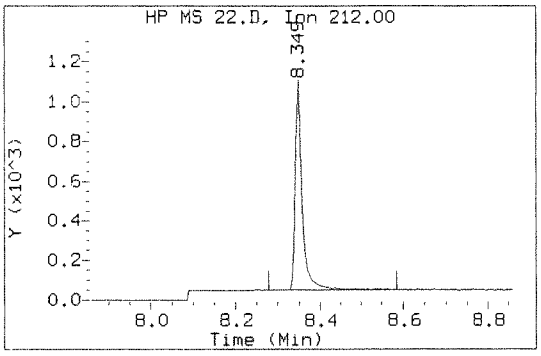
AFTER
MASS
122
AREA
1540
HEIGHT
1280
03-Jun-2024
11:23



BEFORE
MASS
212
AREA
696
HEIGHT
52
31-May-2024
20:04
ALSHS
Server



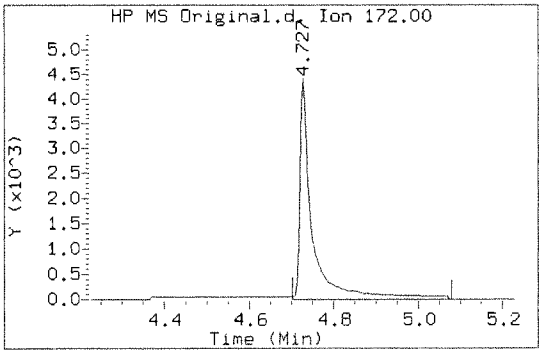
AFTER
MASS
212
AREA
1202
HEIGHT
1057
03-Jun-2024
11:23



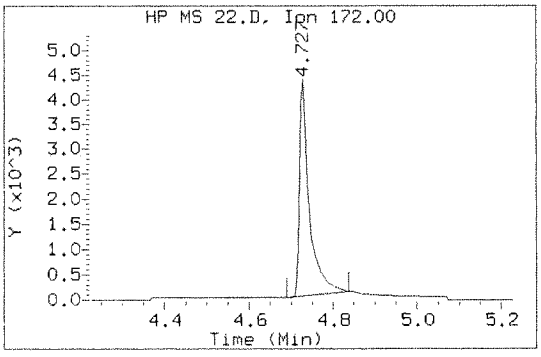
2-Fluorobiphenyl (321-60-8)

Reason Code:

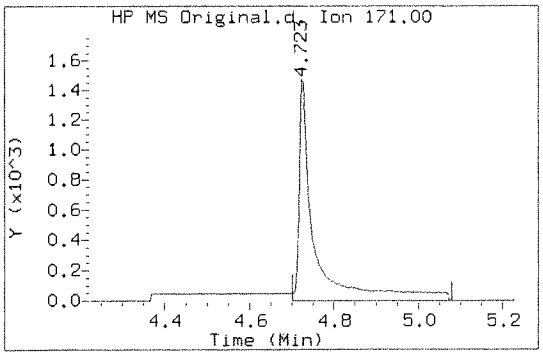
BEFORE
MASS
172
AREA
9171
HEIGHT
4422
31-May-2024
20:04
ALSHS
Server



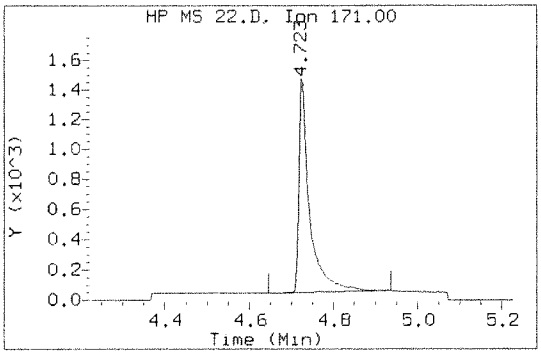
AFTER
MASS
172
AREA
6922
HEIGHT
4344
03-Jun-2024
11:23



BEFORE
MASS
171
AREA
3751
HEIGHT
1477
31-May-2024
20:04
ALSHS
Server



AFTER
MASS
171
AREA
2498
HEIGHT
1426
03-Jun-2024
11:23



Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D Page 1
Report Date: 21-Jun-2024 13:07

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

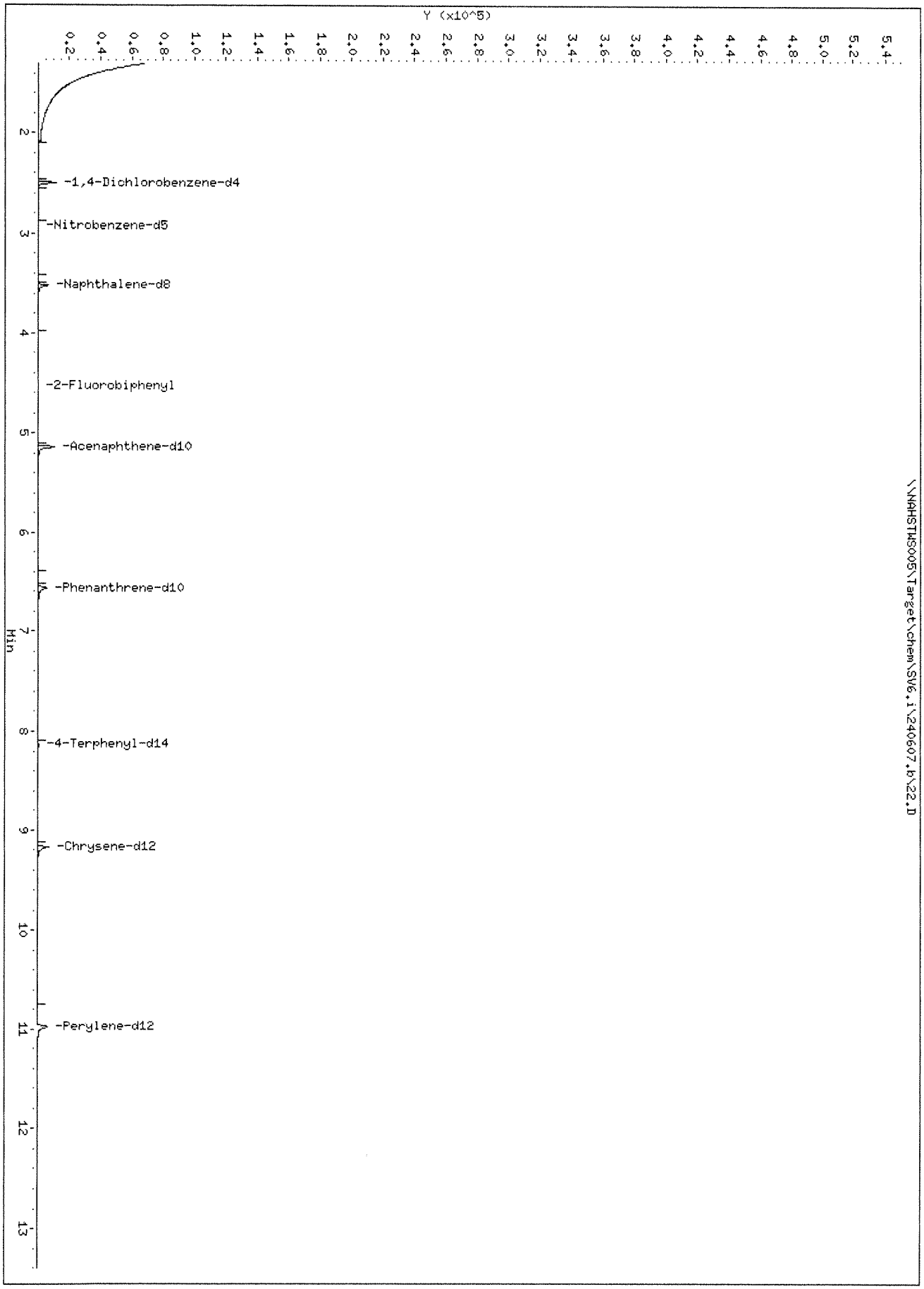
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Operator : LG Inst ID: SV6.i
Smp Info : HS24051669-01X10
Misc Info : ;;0;1;
Comment :
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Meth Date : 21-Jun-2024 13:06 s.zaid Quant Type: AREA%
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 22
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

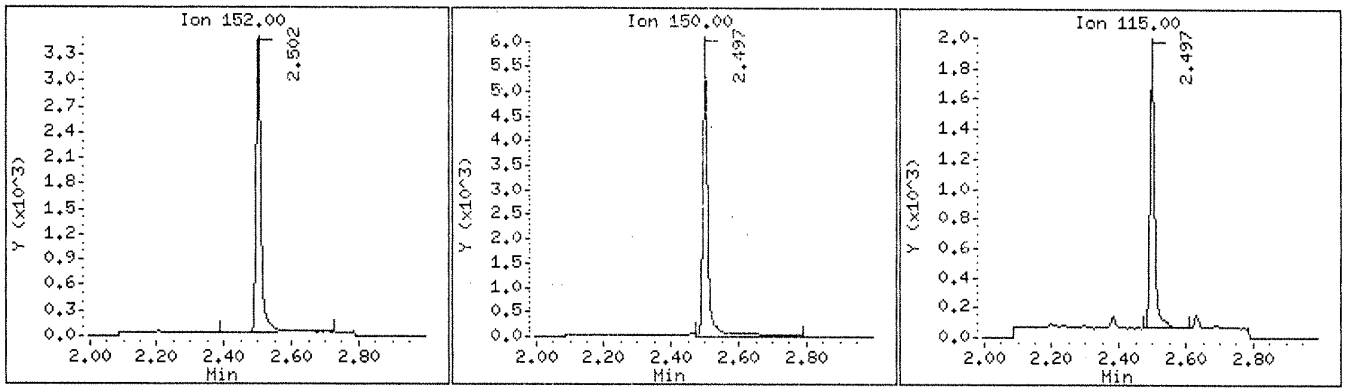
RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
1.053	11974372	2175067	0.182	99.41		1	1,4-Dioxane
2.497	10659	11347	1.065	0.08	*	20	1,4-Dichlorobenzene
2.921	3214	309	0.096	0.02	$	33	Nitrobenzene-d5
3.522	11770	6177	0.525	0.09	*	45	Naphthalene-d8
5.144	16739	10440	0.624	0.13	*	86	Acenaphthene-d10
6.565	16423	5858	0.357	0.13	*	126	Phenanthrene-d10
8.130	2317	888	0.383	0.01	$	158	4-Terphenyl-d14
9.174	16158	6926	0.429	0.13	*	182	Chrysene-d12
	12051653	2217012		100.000			

Total unknown % area = 0.0000

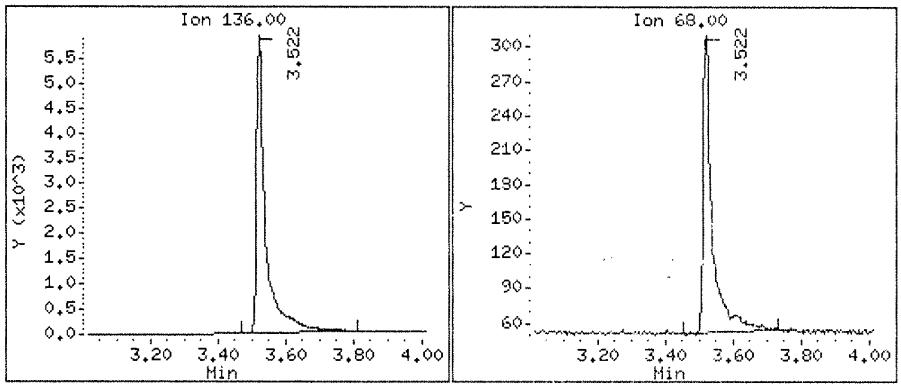

Y (x10^5)
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0.4
0.6
0.8
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1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
2
3
4
5
6
7
8
9
10
11
12
13
Min
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-4-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
\\NAHSTWS005\Target\chem\SW6,i\240607,b\22.D
Data File: \\NAHSTWS005\Target\chem\SW6,i\240607,b\22.D
Page 1

Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D

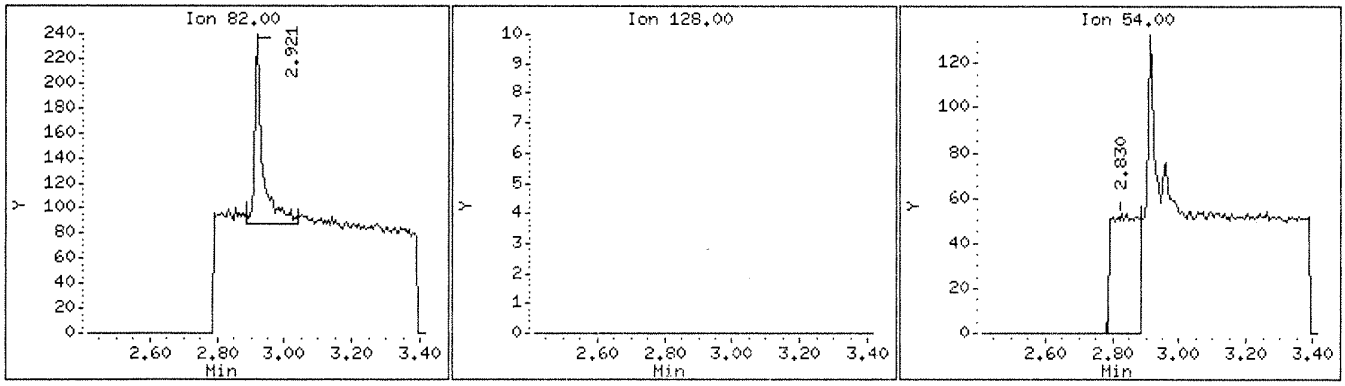
* 20 1,4-Dichlorobenzene-d4



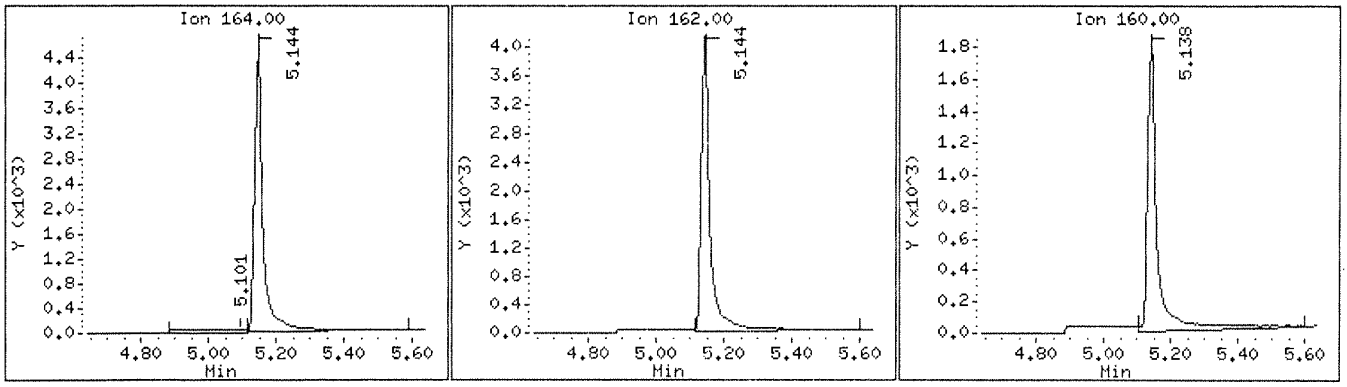
* 45 Naphthalene-d8



* 33 Nitrobenzene-d5

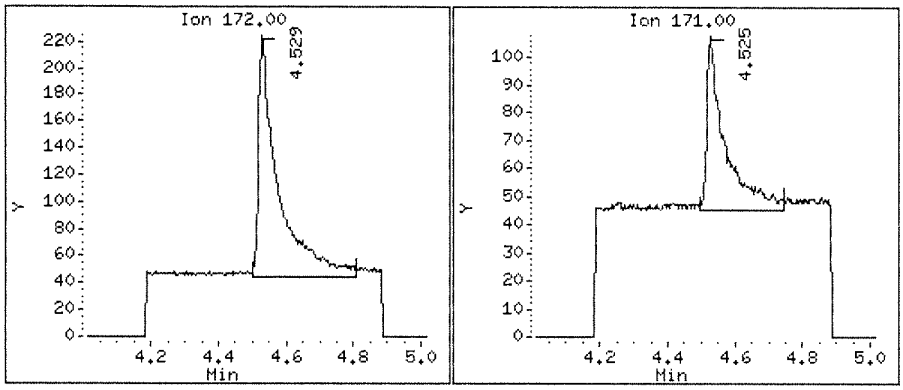


* 86 Acenaphthene-d10

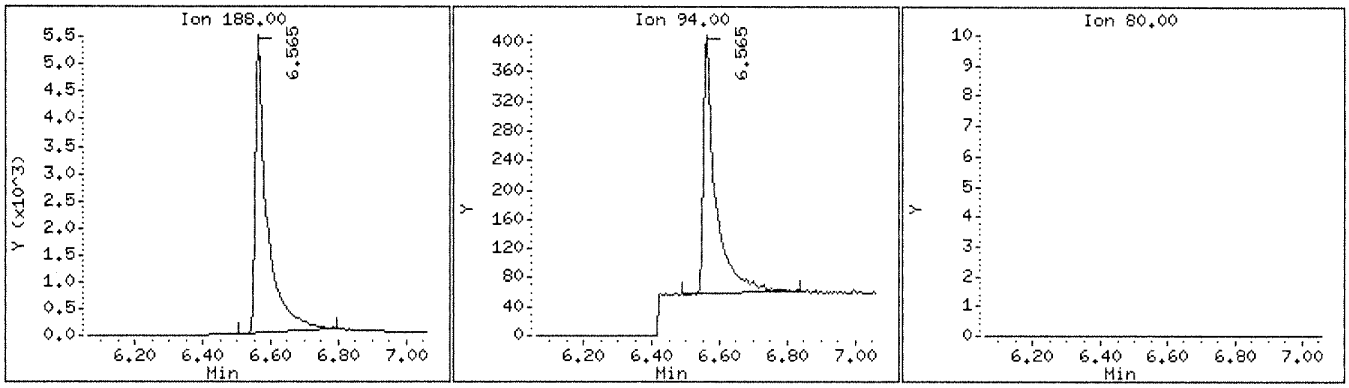


Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D

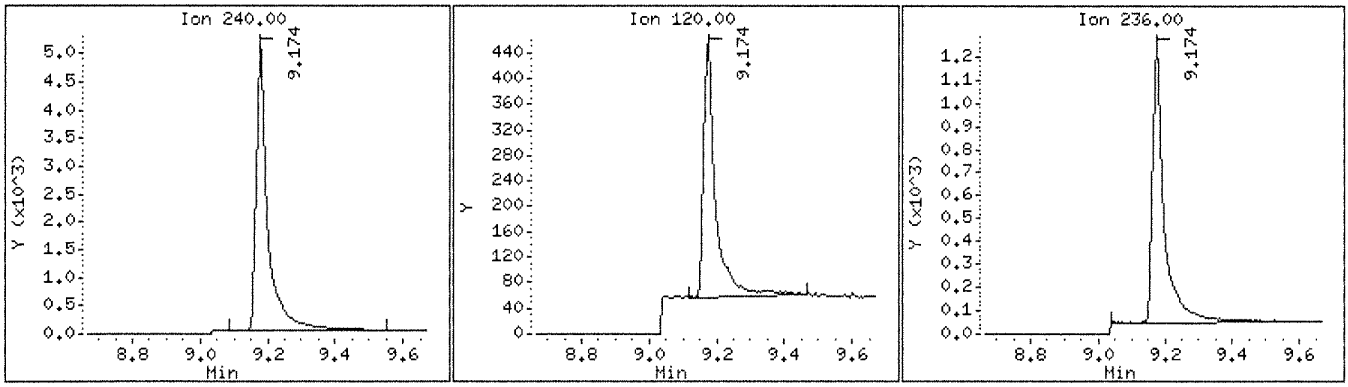
$ 69 2-Fluorobiphenyl



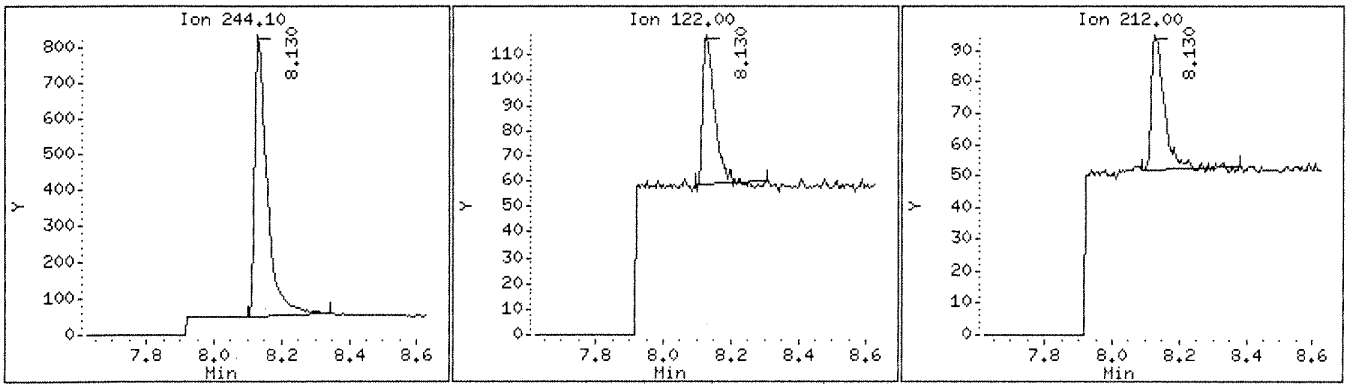
* 126 Phenanthrene-d10



* 182 Chrysene-d12

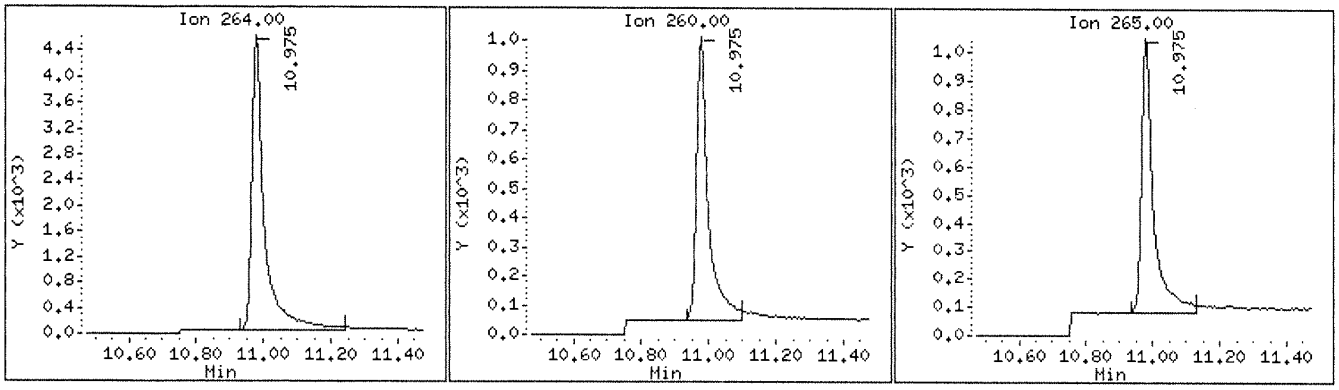


$ 158 4-Terphenyl-d14

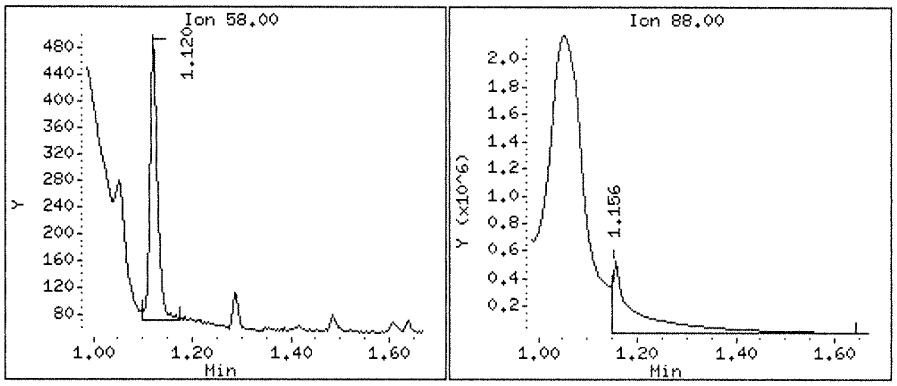


Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D

* 198 Perylene-d12



1 1,4-Dioxane



Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D Page 2
Report Date: 21-Jun-2024 13:07

ALS Laboratory Group

TARGET COMPOUNDS

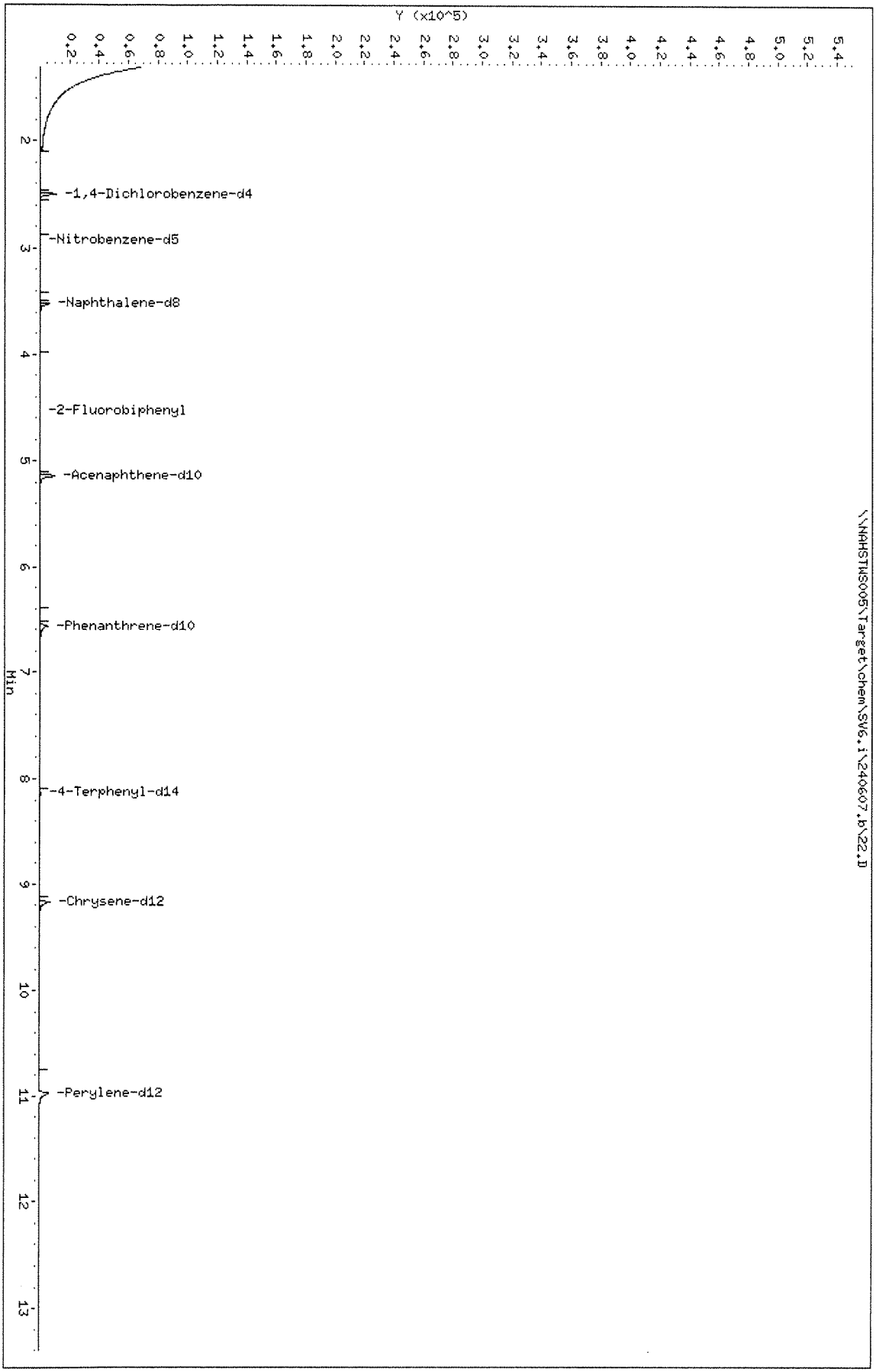
Client Name:
Lab Smp Id: HS24051669-01
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: SV
Data Type: MS DATA
Misc Info: ;;0;1;

Client SDG: SDGa71345
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: LG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
----------	1,4-Dioxane	0.6051	
4165-60-0	Nitrobenzene-d5	0.07356	
321-60-8	2-Fluorobiphenyl	0.06453	
1718-51-0	4-Terphenyl-d14	0.07536	

Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Date : 07-JUN-2024 20:22
Client ID:
Sample Info: HS24051669-01X10
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D

Date : 07-JUN-2024 20:22

Client ID:

Instrument: SV6.i

Sample Info: HS24051669-01X10

Purge Volume: 1000.0

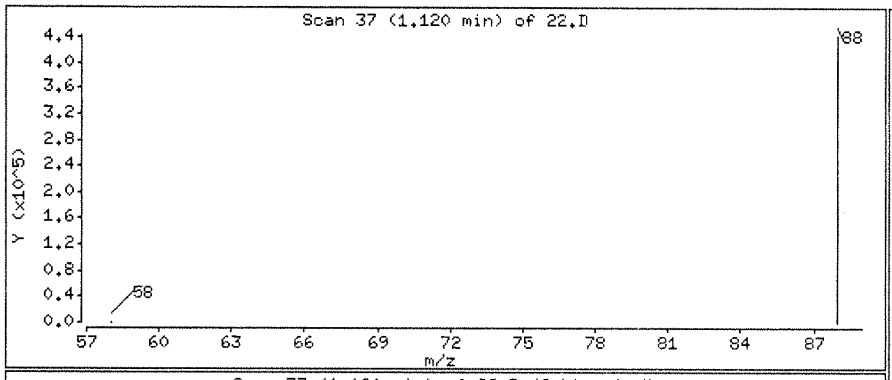
Operator: LC

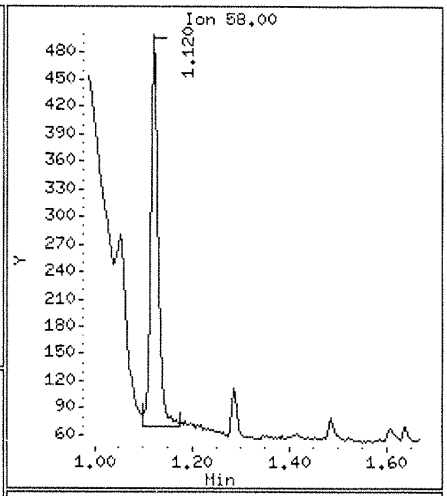
Column phase: RTX-5SIL MS

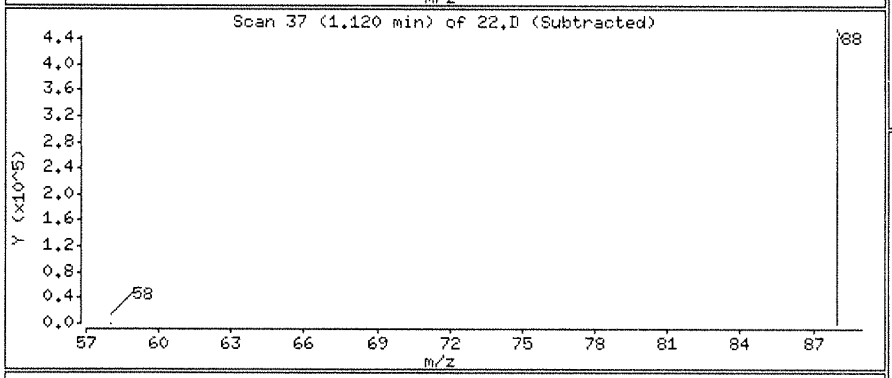
Column diameter: 0.28

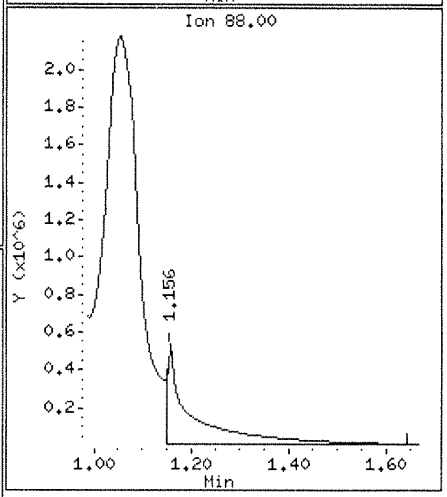
1 1,4-Dioxane

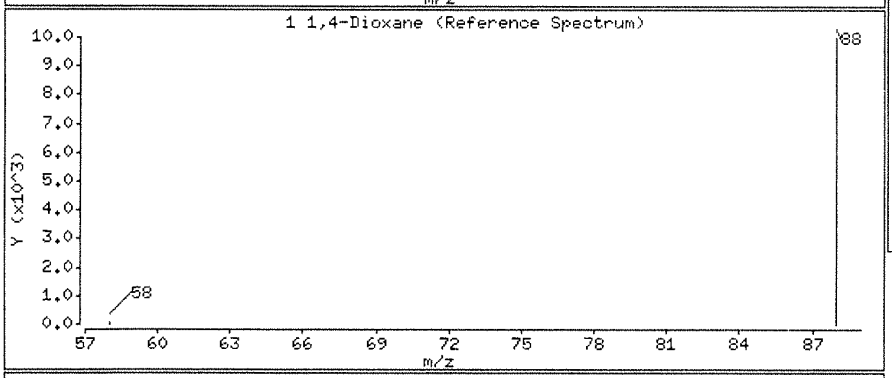
Concentration: 0.6051 ug/L

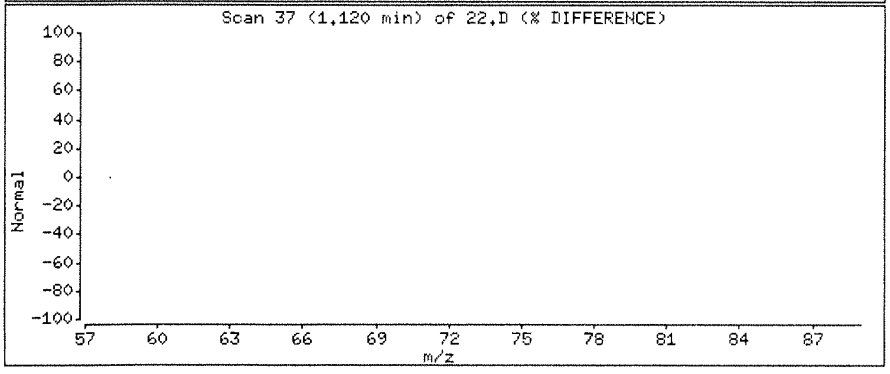












Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D Page 2
Report Date: 21-Jun-2024 13:07

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: SV6.i
Lab File ID: 22.D
Lab Smp Id: HS24051669-01
Analysis Type: SV
Quant Type: ISTD
Operator: LG
Method File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\DXSIM.m
Misc Info: ;;0;1;

Calibration Date: 07-JUN-2024
Calibration Time: 13:55
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
20 1,4-Dichlorobenze	4250	2125	8500	3526	-17.04
45 Naphthalene-d8	13721	6861	27442	10642	-22.44
86 Acenaphthene-d10	8713	4357	17426	7522	-13.67
126 Phenanthrene-d10	16323	8162	32646	12672	-22.37
182 Chrysene-d12	14037	7019	28074	11640	-17.08
198 Perylene-d12	7881	3941	15762	12174	54.47

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
20 1,4-Dichlorobenze	2.50	2.00	3.00	2.50	0.21
45 Naphthalene-d8	3.51	3.01	4.01	3.52	0.21
86 Acenaphthene-d10	5.14	4.64	5.64	5.14	0.10
126 Phenanthrene-d10	6.56	6.06	7.06	6.57	0.08
182 Chrysene-d12	9.17	8.67	9.67	9.17	0.06
198 Perylene-d12	10.98	10.48	11.48	10.98	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

ALS Laboratory Group

LIMIT OF DETECTION REPORT

Data file : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Lab Smp Id: HS24051669-01
Inj Date : 07-JUN-2024 20:22
Operator : LG Inst ID: SV6.i
Smp Info : HS24051669-01X10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240607.b\DXSIM.m
Meth Date : 21-Jun-2024 13:06 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 22
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

COMPOUND NAME	RT	RESPONSE	AMOUNT	LOD

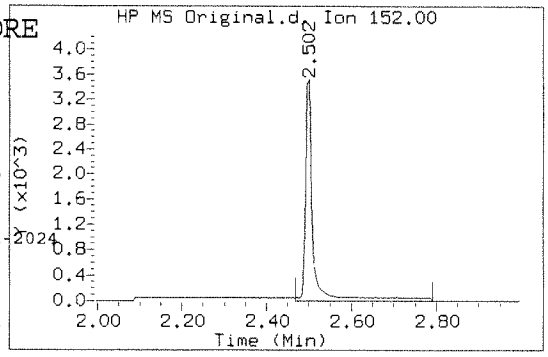
Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

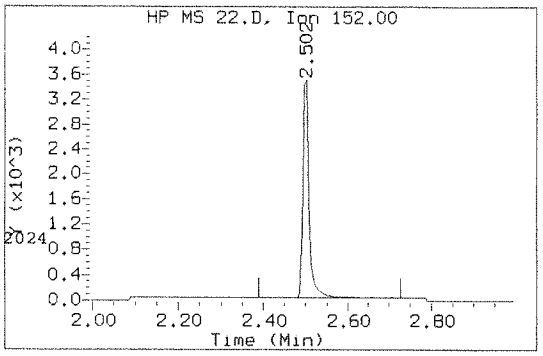
BEFORE

MASS 152
AREA 4538
HEIGHT 3515
07-Jun-2024 20:40
ALSHS Server



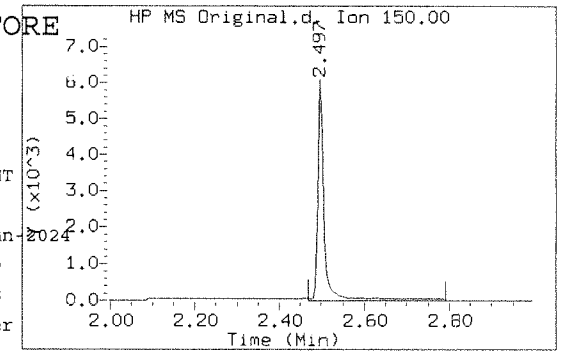
AFTER

MASS 152
AREA 3526
HEIGHT 3463
12-Jun-2024 13:00



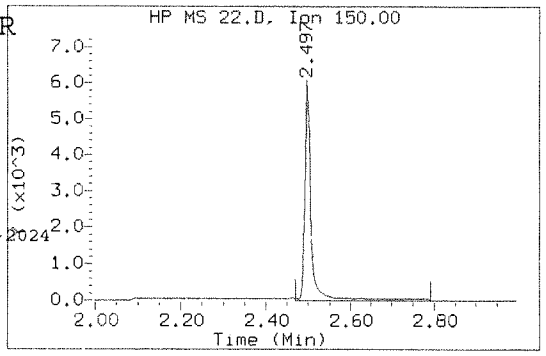
BEFORE

MASS 150
AREA 6567
HEIGHT 6092
07-Jun-2024 20:40
ALSHS Server



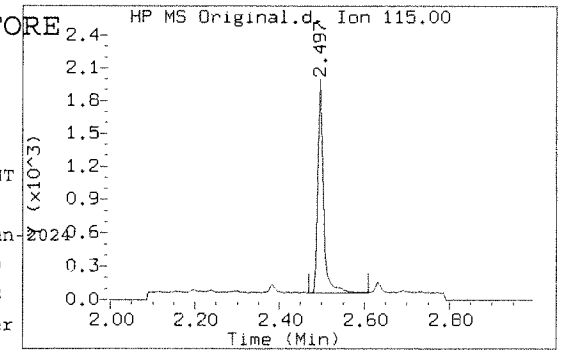
AFTER

MASS 150
AREA 6567
HEIGHT 6092
12-Jun-2024 13:00



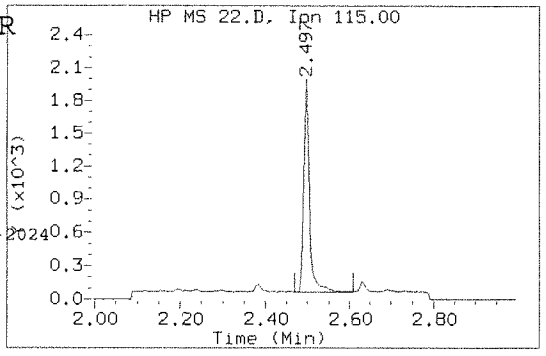
BEFORE

MASS 115
AREA 1791
HEIGHT 1934
07-Jun-2024 20:40
ALSHS Server



AFTER

MASS 115
AREA 1791
HEIGHT 1934
12-Jun-2024 13:00

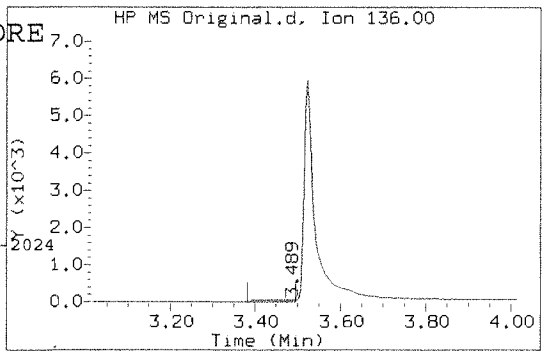


Naphthalene-d8 (1146-65-2)

Reason Code:

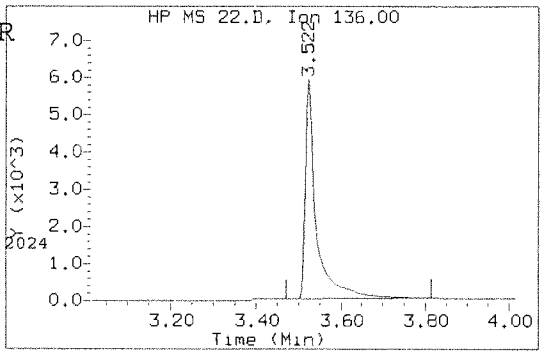
BEFORE

MASS 136
AREA 319
HEIGHT 50
07-Jun-2024 20:40
ALSHS Server



AFTER

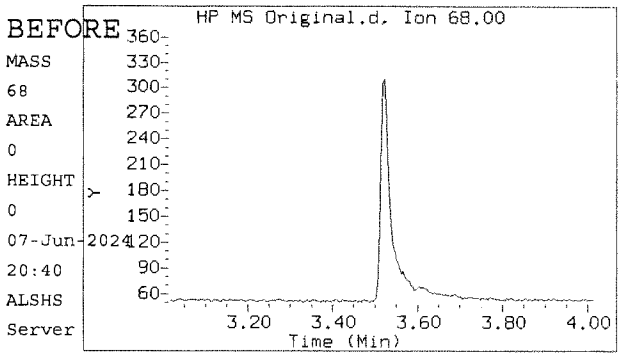
MASS 136
AREA 10642
HEIGHT 5912
12-Jun-2024 13:00

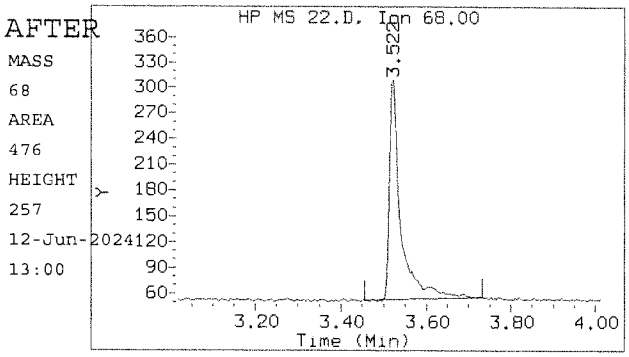


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

Naphthalene-d8 (1146-65-2)

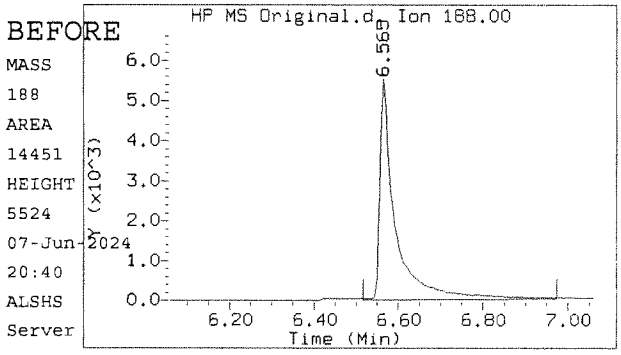
Reason Code:

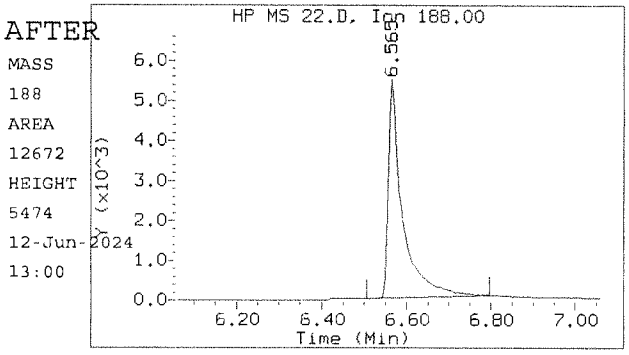


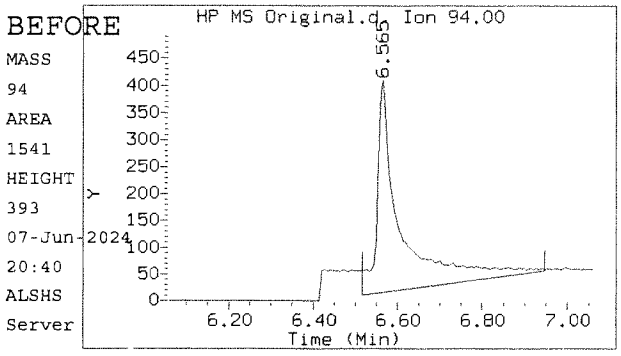


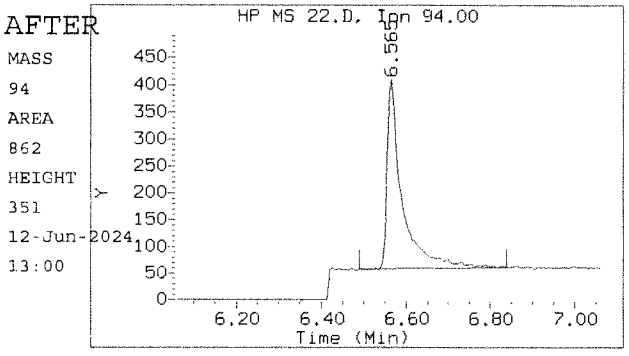
Phenanthrene-d10 (1517-22-2)

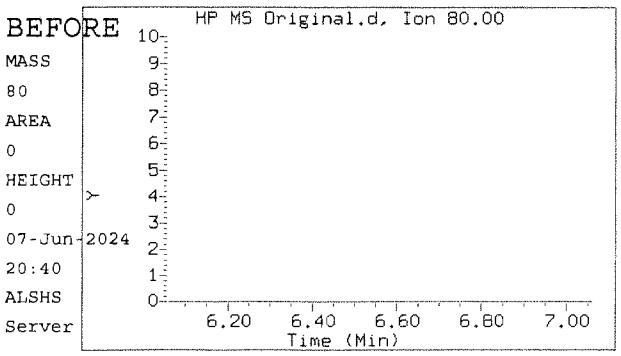
Reason Code:

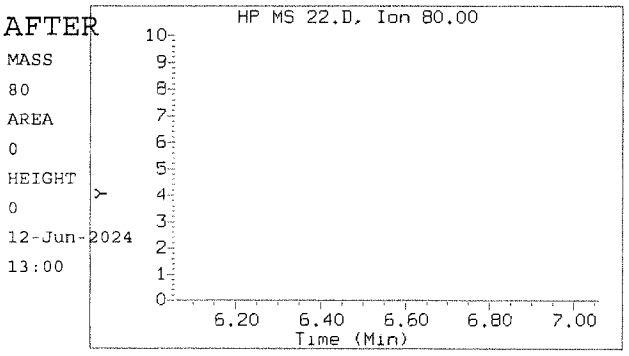










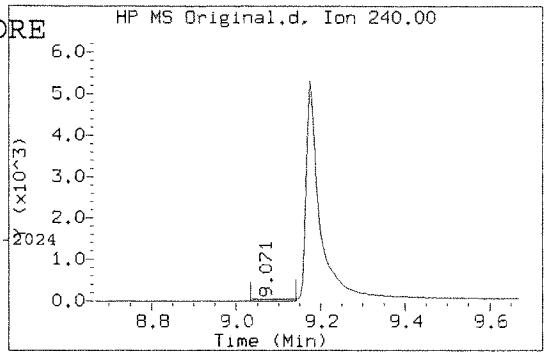


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

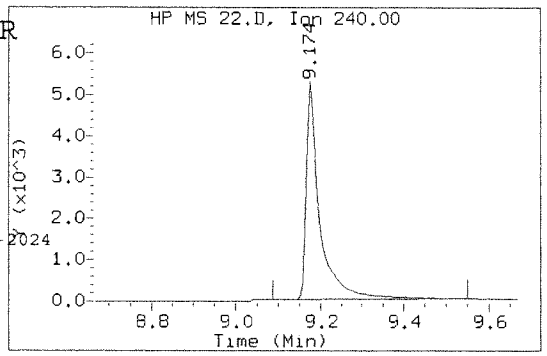
Chrysene-d12 (1719-03-5)

Reason Code:

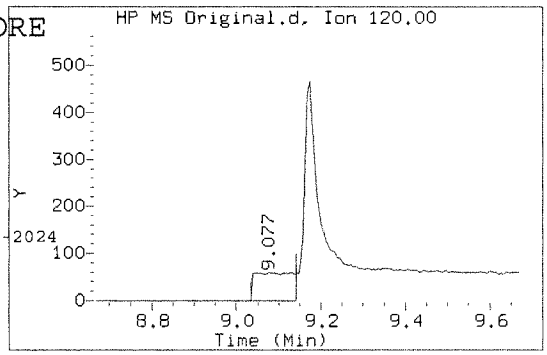
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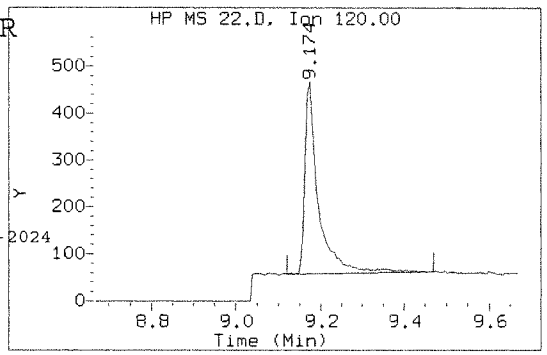
AFTER



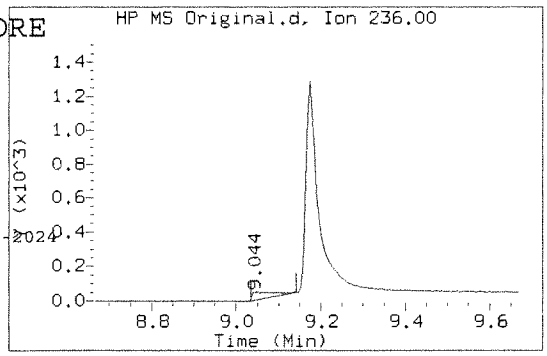
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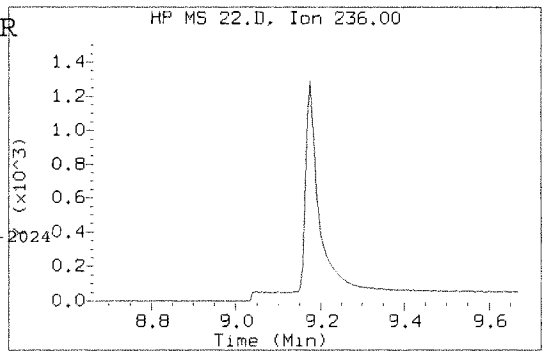
AFTER



BEFORE



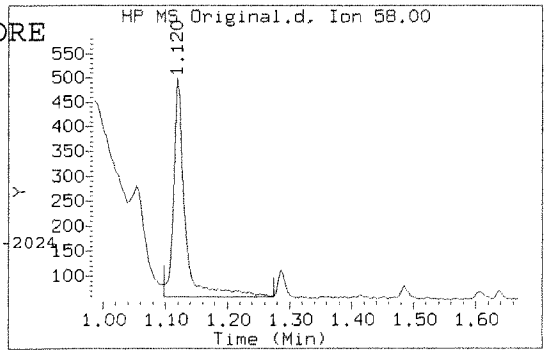
AFTER



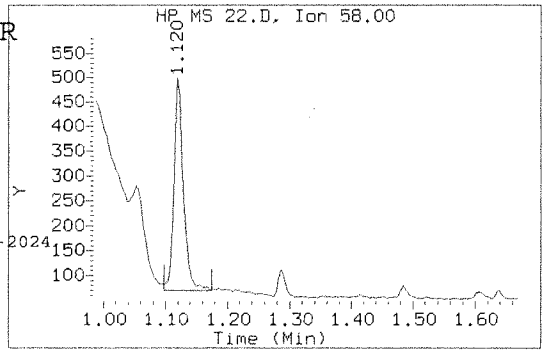
1,4-Dioxane ()

Reason Code:

BEFORE



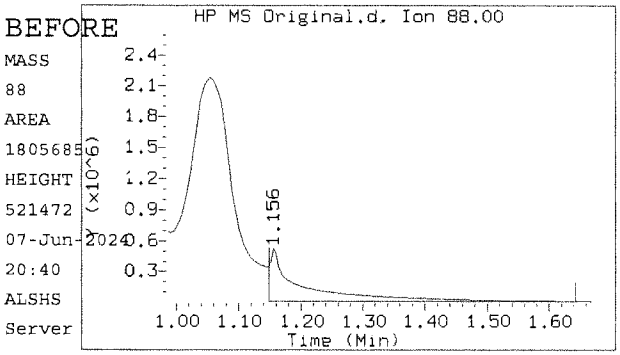
AFTER

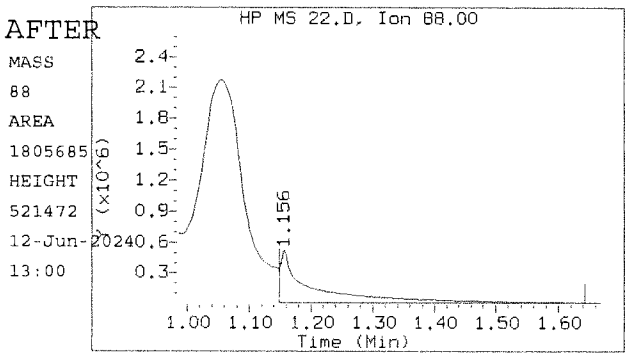


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

1,4-Dioxane ()

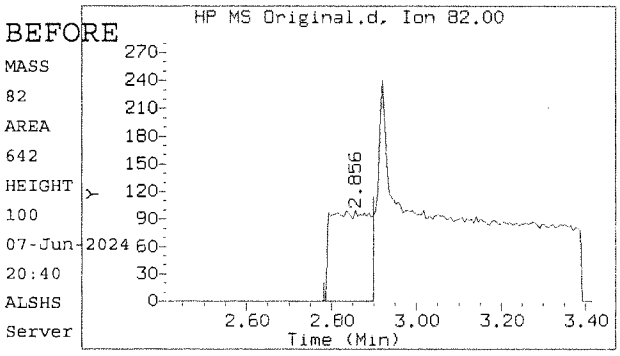
Reason Code:

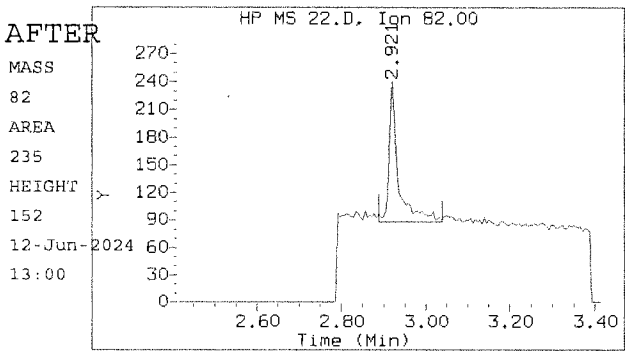


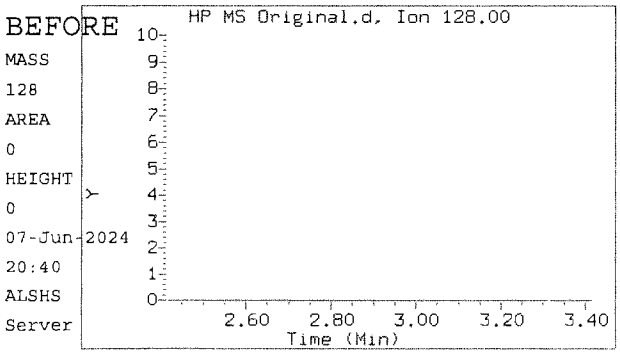


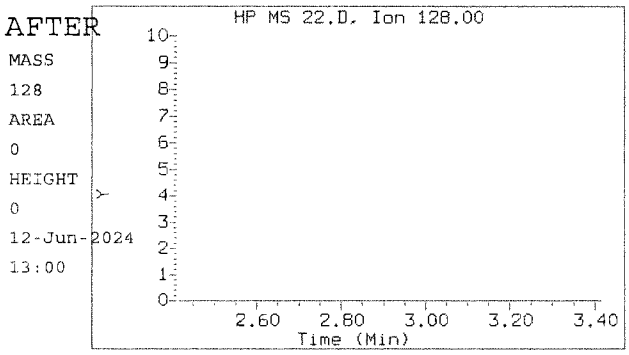
Nitrobenzene-d5 (4165-60-0)

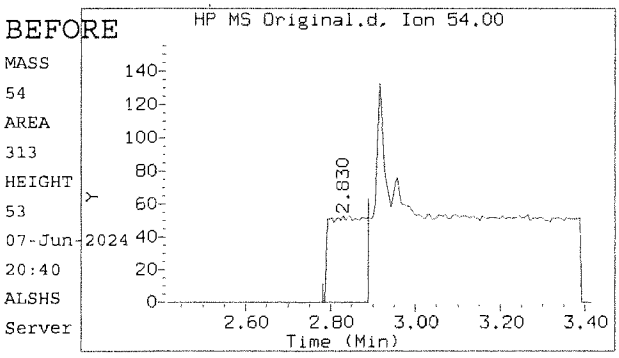
Reason Code:

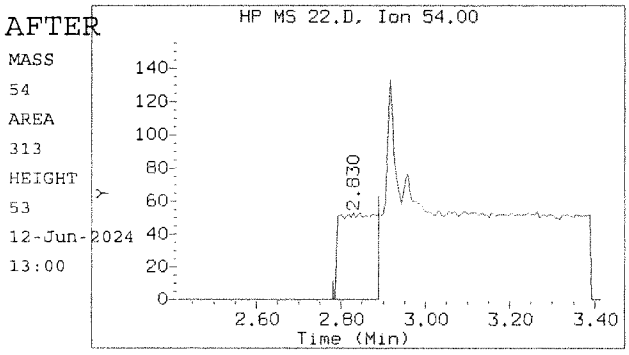










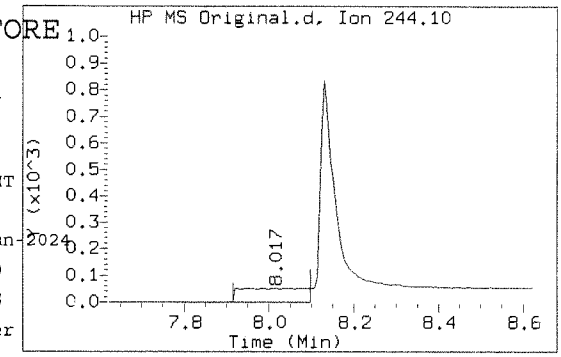


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

4-Terphenyl-d14 (1718-51-0)

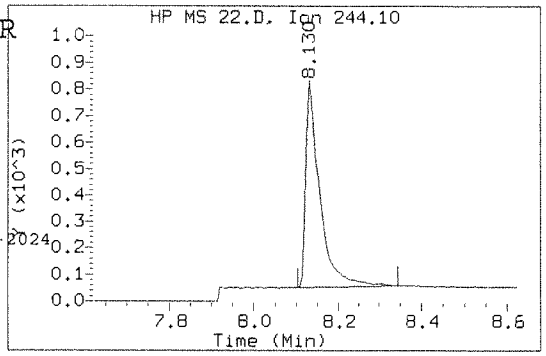
Reason Code:

BEFORE



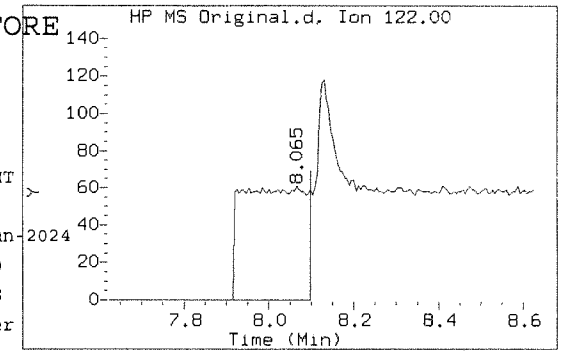
MASS 244.1
AREA 550
HEIGHT 52
07-Jun-2024 20:40
ALSHS Server

AFTER



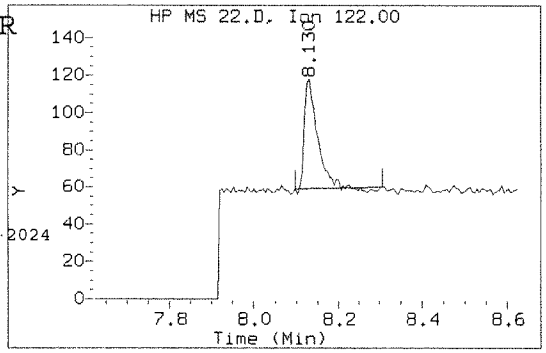
MASS 244.1
AREA 1787
HEIGHT 782
12-Jun-2024 13:00

BEFORE



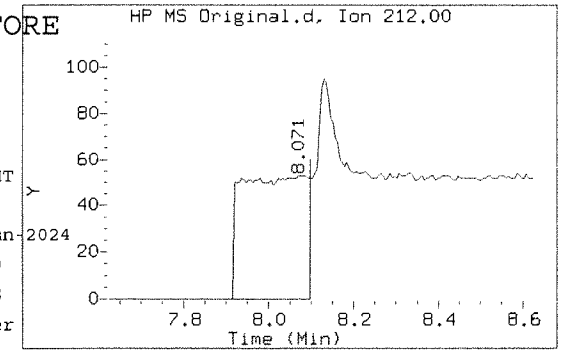
MASS 122
AREA 637
HEIGHT 61
07-Jun-2024 20:40
ALSHS Server

AFTER



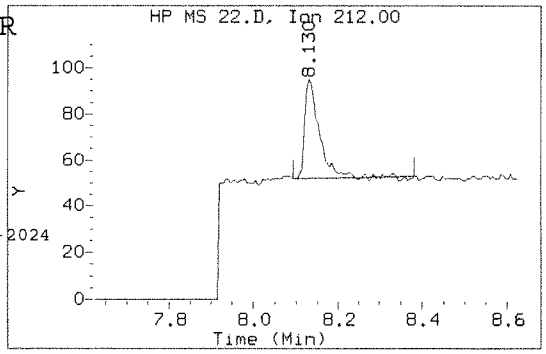
MASS 122
AREA 119
HEIGHT 58
12-Jun-2024 13:00

BEFORE



MASS 212
AREA 561
HEIGHT 53
07-Jun-2024 20:40
ALSHS Server

AFTER

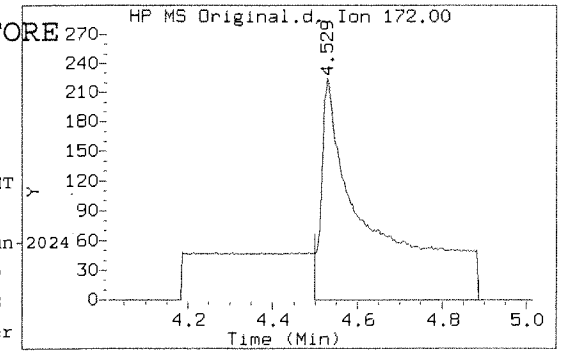


MASS 212
AREA 98
HEIGHT 42
12-Jun-2024 13:00

2-Fluorobiphenyl (321-60-8)

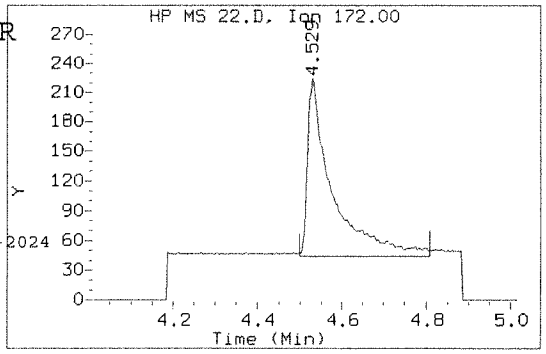
Reason Code:

BEFORE



MASS 172
AREA 1789
HEIGHT 225
07-Jun-2024 20:40
ALSHS Server

AFTER



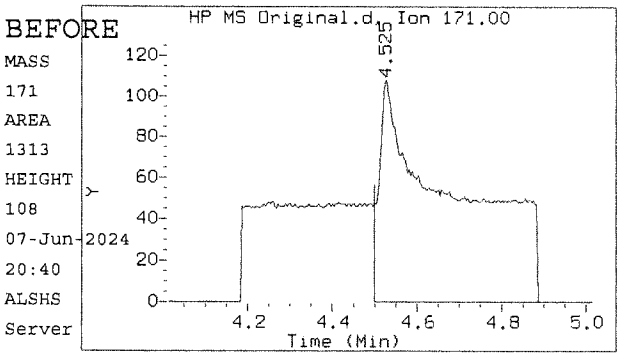
MASS 172
AREA 742
HEIGHT 181
12-Jun-2024 13:00

Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

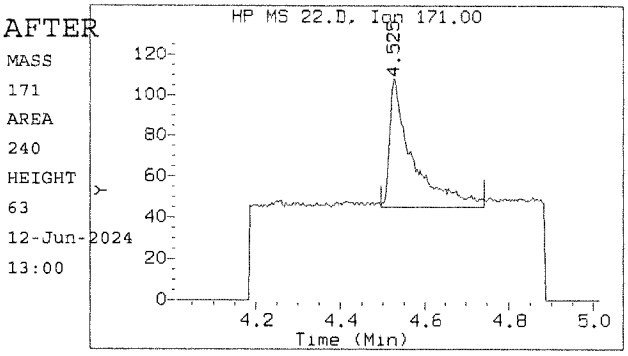
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE



AFTER



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Lab Smp Id: HS24051669-01
Inj Date : 07-JUN-2024 20:22
Operator : LG Inst ID: SV6.i
Smp Info : HS24051669-01X10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240607.b\DXSIM.m
Meth Date : 21-Jun-2024 13:06 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 22
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.502	2.496	(1.000)	3526	0.10000	(aM)
* 45 Naphthalene-d8	136	3.522	3.514	(1.000)	10642	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.920	2.915	(0.829)	235	0.00736	0.07356(M)
* 86 Acenaphthene-d10	164	5.143	5.138	(1.000)	7522	0.10000	
$ 69 2-Fluorobiphenyl	172	4.529	4.514	(0.881)	742	0.00645	0.06453(M)
* 126 Phenanthrene-d10	188	6.565	6.559	(1.000)	12672	0.10000	(M)
* 182 Chrysene-d12	240	9.173	9.168	(1.000)	11640	0.10000	(M)
$ 158 4-Terphenyl-d14	244	8.129	8.124	(0.886)	1787	0.00754	0.07536(M)
* 198 Perylene-d12	264	10.975	10.975	(1.000)	12174	0.10000	
1 1,4-Dioxane	58	1.119	1.167	(0.447)	457	0.06051	0.6051(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Report Date: 21-Jun-2024 13:07

ALS Laboratory Group

RECOVERY REPORT

Client Name: Client SDG: SDGa71345
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: HS24051669-01
Level: LOW Operator: LG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: c&gspk.spk Quant Type: ISTD
Sublist File: 14dx.sub
Method File: \\NAHSTWS005\Target\chem\SV6.i\240607.b\DXSIM.m
Misc Info: ;;0;1;

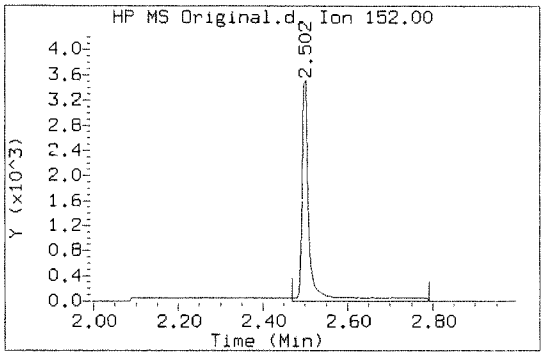
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 33 Nitrobenzene-d5	0.08000	0.07356	91.95	40-140
$ 69 2-Fluorobiphenyl	0.08000	0.06453	80.66	40-140
$ 158 4-Terphenyl-d14	0.08000	0.07536	94.20	40-140

Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

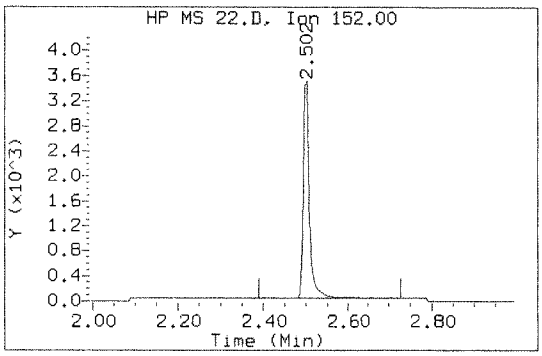
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

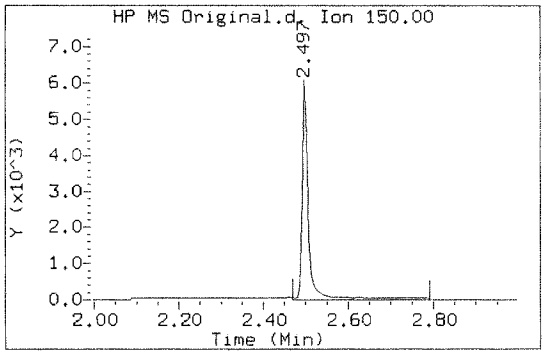
BEFORE
MASS
152
AREA
4538
HEIGHT
3515
07-Jun-2024
20:40
ALSHS
Server



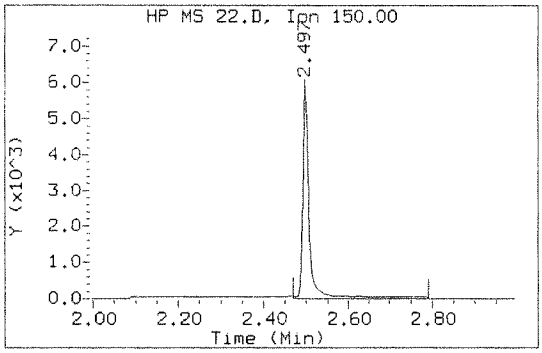
AFTER
MASS
152
AREA
3526
HEIGHT
3463
12-Jun-2024
13:00



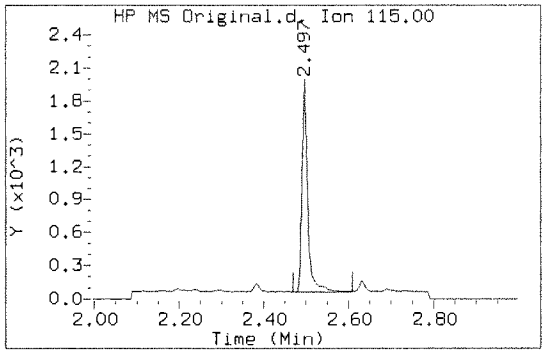
BEFORE
MASS
150
AREA
6567
HEIGHT
6092
07-Jun-2024
20:40
ALSHS
Server



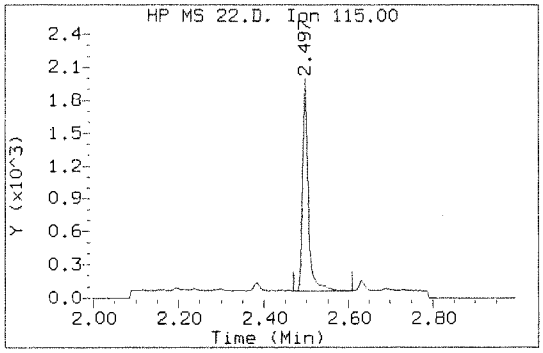
AFTER
MASS
150
AREA
6567
HEIGHT
6092
12-Jun-2024
13:00



BEFORE
MASS
115
AREA
1791
HEIGHT
1934
07-Jun-2024
20:40
ALSHS
Server



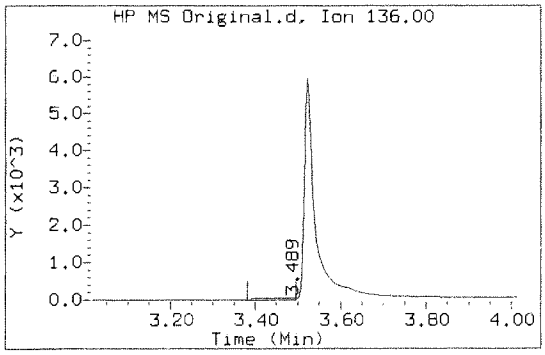
AFTER
MASS
115
AREA
1791
HEIGHT
1934
12-Jun-2024
13:00



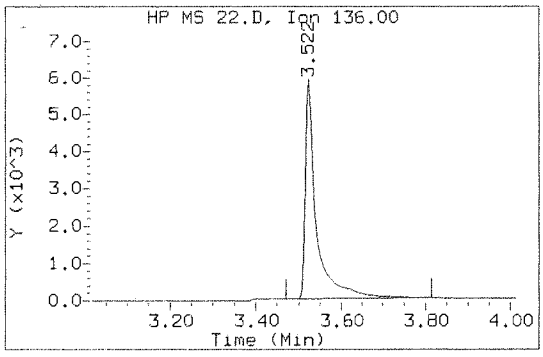
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
319
HEIGHT
50
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
136
AREA
10642
HEIGHT
5912
12-Jun-2024
13:00

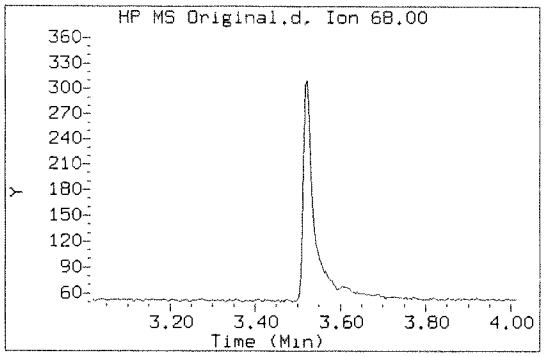


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

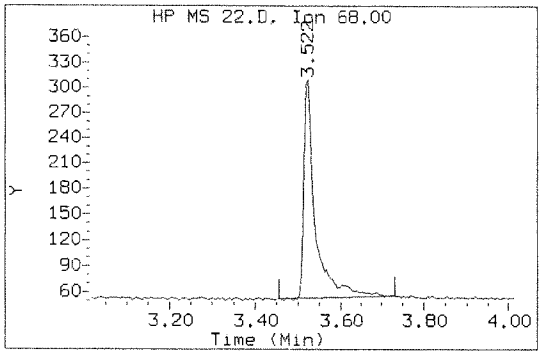
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
07-Jun-2024
20:40
ALSHS
Server



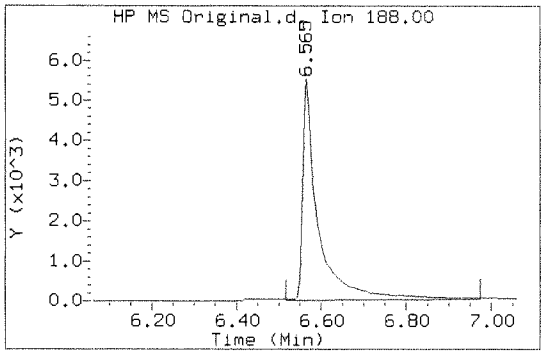
AFTER
MASS
68
AREA
476
HEIGHT
257
12-Jun-2024
13:00



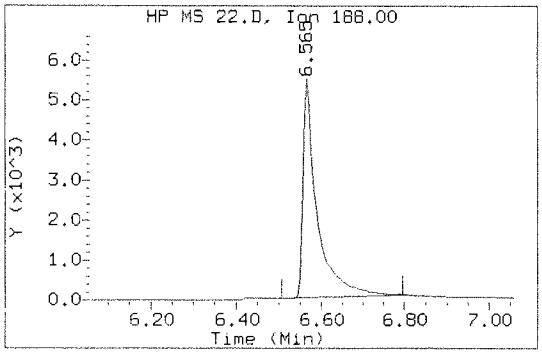
Phenanthrene-d10 (1517-22-2)

Reason Code:

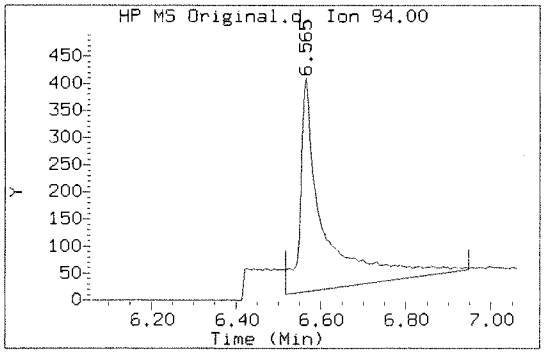
BEFORE
MASS
188
AREA
14451
HEIGHT
5524
07-Jun-2024
20:40
ALSHS
Server



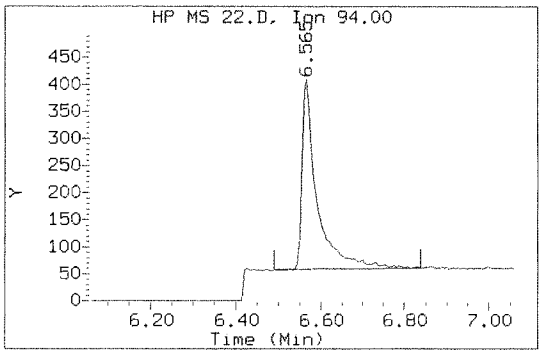
AFTER
MASS
188
AREA
12672
HEIGHT
5474
12-Jun-2024
13:00



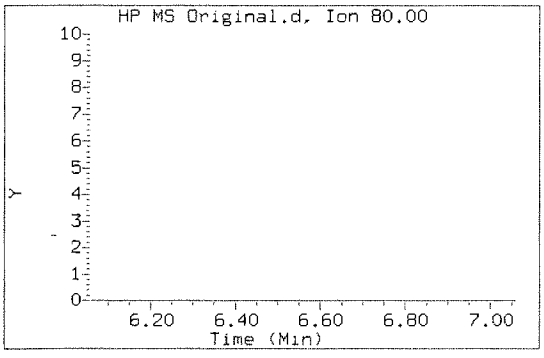
BEFORE
MASS
94
AREA
1541
HEIGHT
393
07-Jun-2024
20:40
ALSHS
Server



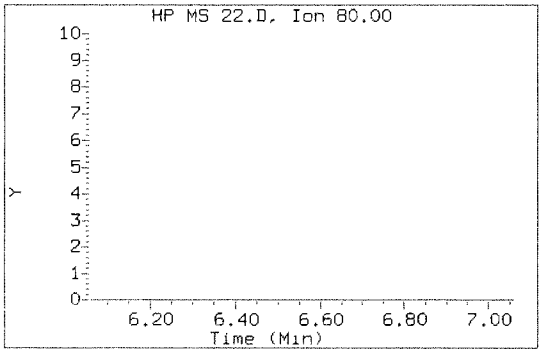
AFTER
MASS
94
AREA
862
HEIGHT
351
12-Jun-2024
13:00



BEFORE
MASS
80
AREA
0
HEIGHT
0
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
80
AREA
0
HEIGHT
0
12-Jun-2024
13:00

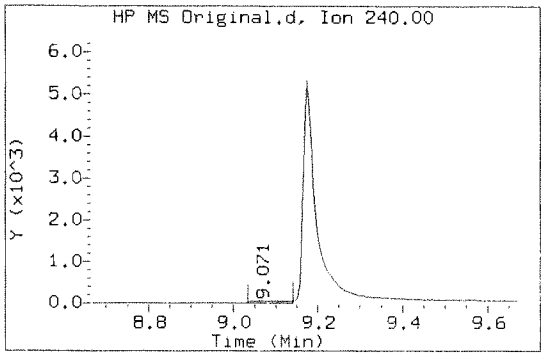


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

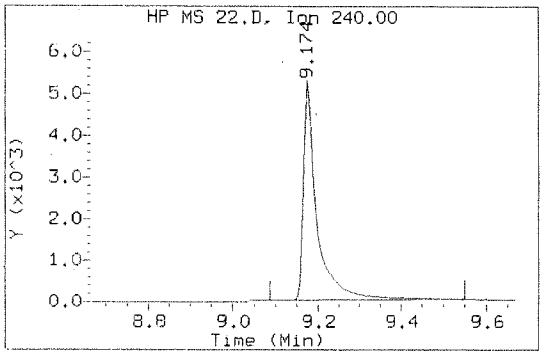
Chrysene-d12 (1719-03-5)

Reason Code:

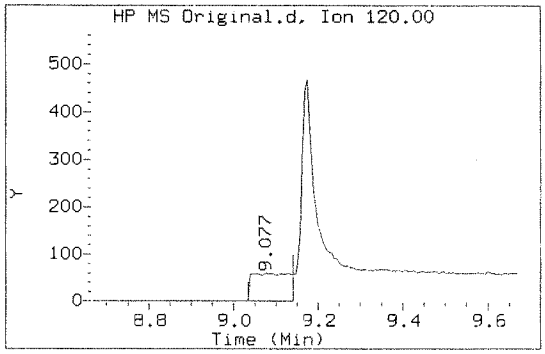
BEFORE
MASS
240
AREA
330
HEIGHT
53
07-Jun-2024
20:40
ALSHS
Server



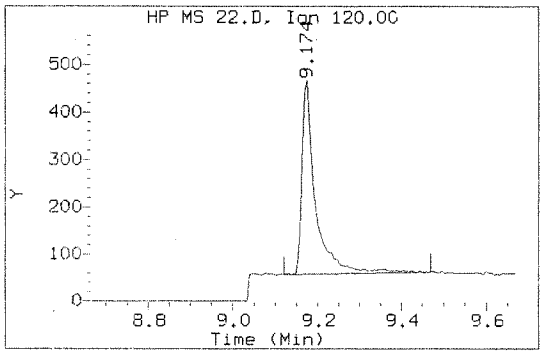
AFTER
MASS
240
AREA
11640
HEIGHT
5272
12-Jun-2024
13:00



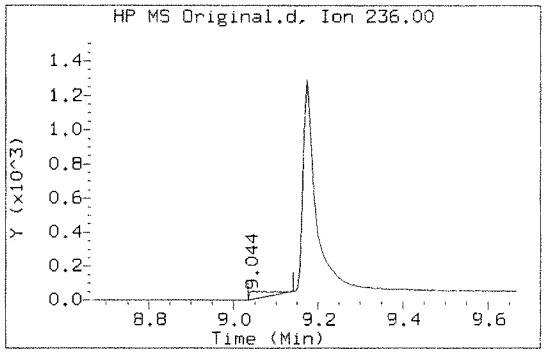
BEFORE
MASS
120
AREA
370
HEIGHT
59
07-Jun-2024
20:40
ALSHS
Server



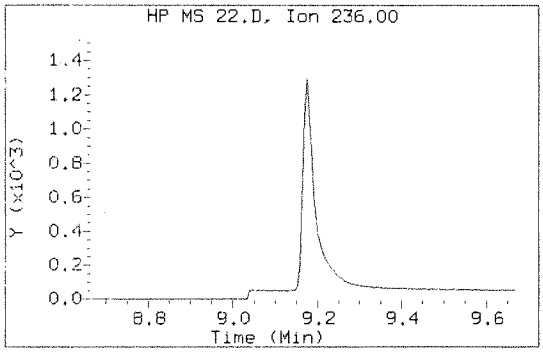
AFTER
MASS
120
AREA
903
HEIGHT
409
12-Jun-2024
13:00



BEFORE
MASS
236
AREA
151
HEIGHT
45
07-Jun-2024
20:40
ALSHS
Server



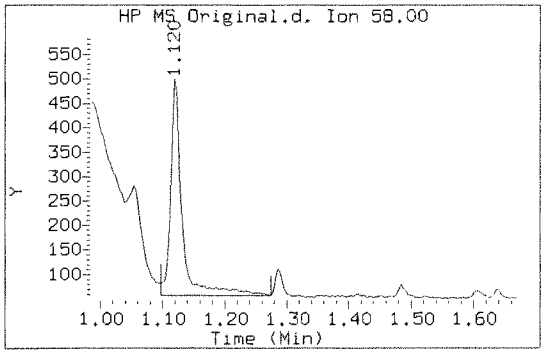
AFTER
MASS
236
AREA
2790
HEIGHT
1240
12-Jun-2024
13:00



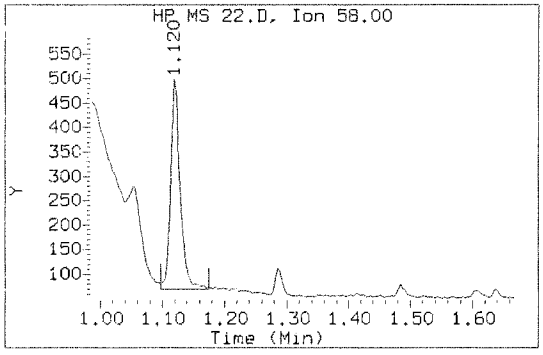
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
58
AREA
571
HEIGHT
442
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
58
AREA
457
HEIGHT
430
12-Jun-2024
13:00

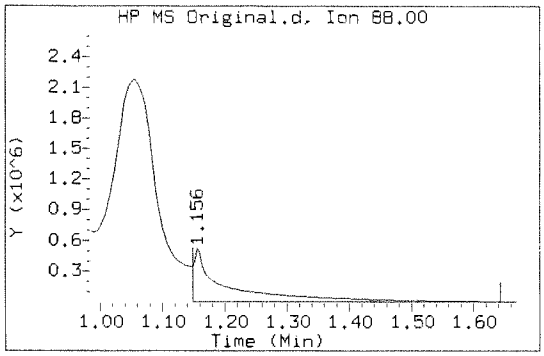


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Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

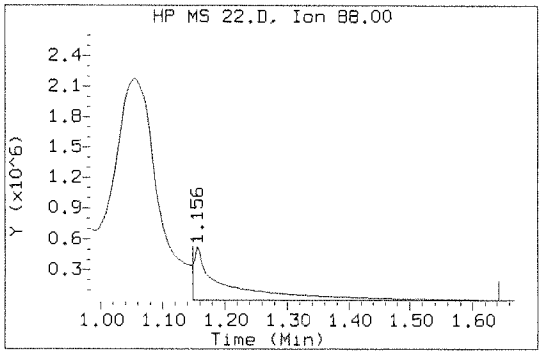
1,4-Dioxane ()

Reason Code:

BEFORE
MASS
88
AREA
1805685
HEIGHT
521472
07-Jun-2024
20:40
ALSHS
Server



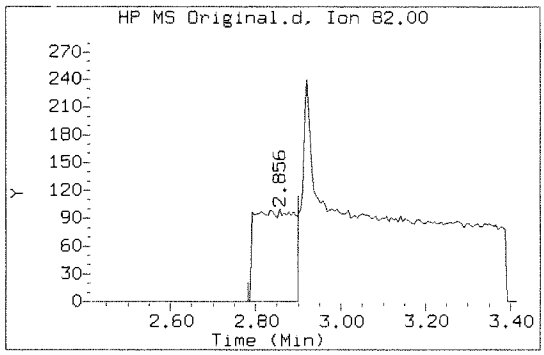
AFTER
MASS
88
AREA
1805685
HEIGHT
521472
12-Jun-2024
13:00



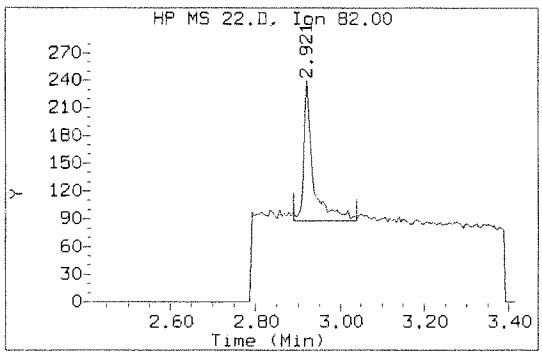
Nitrobenzene-d5 (4165-60-0)

Reason Code:

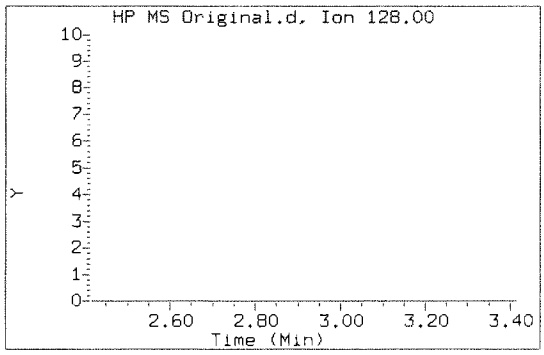
BEFORE
MASS
82
AREA
642
HEIGHT
100
07-Jun-2024
20:40
ALSHS
Server



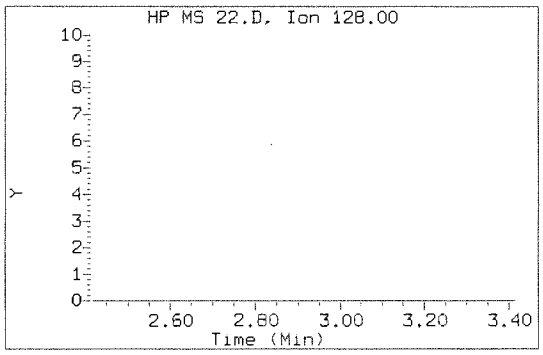
AFTER
MASS
82
AREA
235
HEIGHT
152
12-Jun-2024
13:00



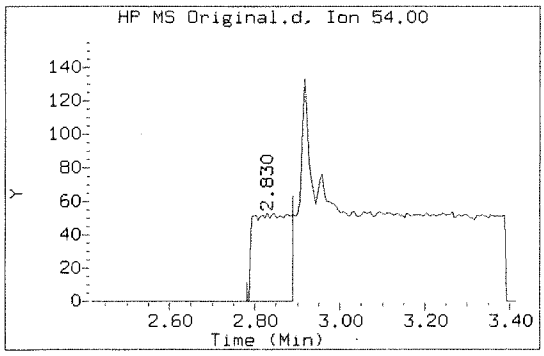
BEFORE
MASS
128
AREA
0
HEIGHT
0
07-Jun-2024
20:40
ALSHS
Server



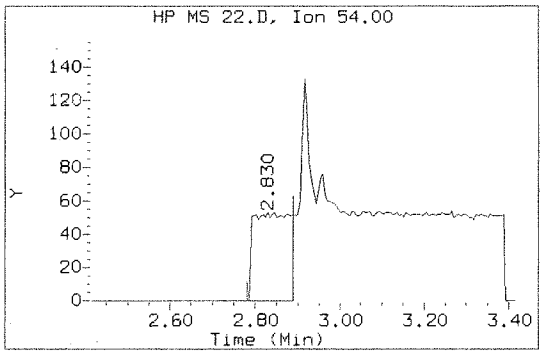
AFTER
MASS
128
AREA
0
HEIGHT
0
12-Jun-2024
13:00



BEFORE
MASS
54
AREA
313
HEIGHT
53
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
54
AREA
313
HEIGHT
53
12-Jun-2024
13:00

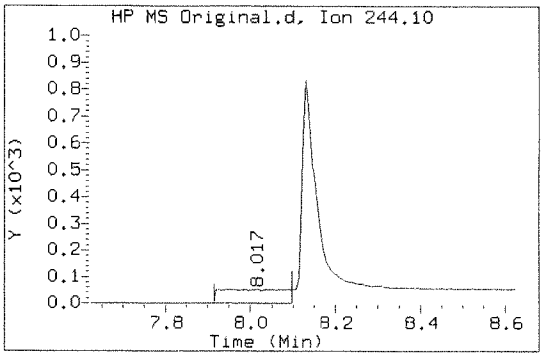


Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

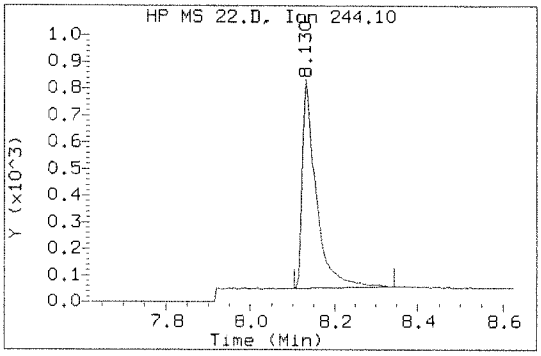
4-Terphenyl-d14 (1718-51-0)

Reason Code:

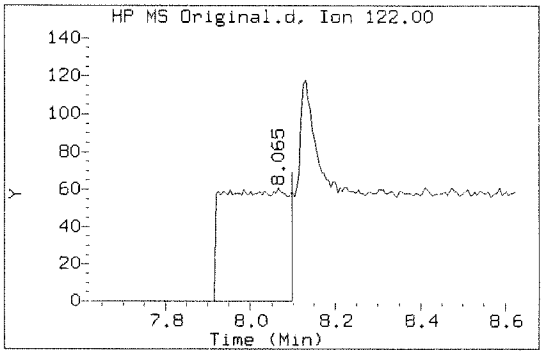
BEFORE
MASS
244.1
AREA
550
HEIGHT
52
07-Jun-2024
20:40
ALSHS
Server



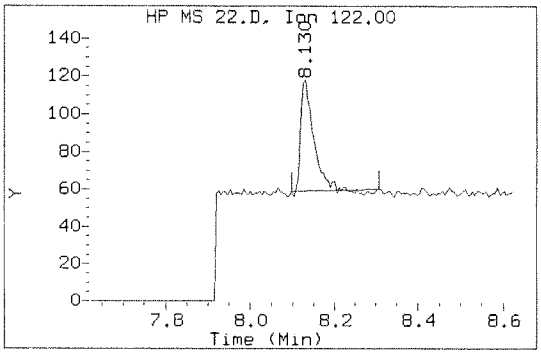
AFTER
MASS
244.1
AREA
1787
HEIGHT
782
12-Jun-2024
13:00



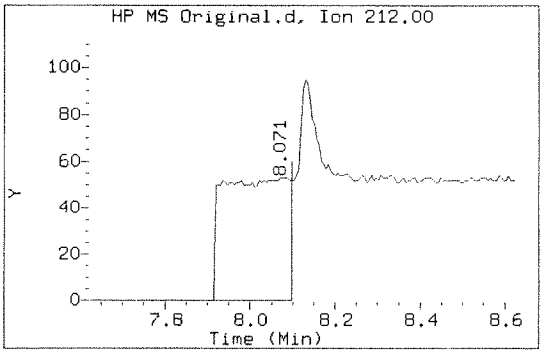
BEFORE
MASS
122
AREA
637
HEIGHT
61
07-Jun-2024
20:40
ALSHS
Server



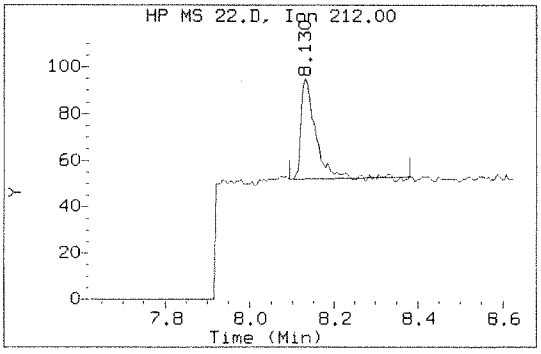
AFTER
MASS
122
AREA
119
HEIGHT
58
12-Jun-2024
13:00



BEFORE
MASS
212
AREA
561
HEIGHT
53
07-Jun-2024
20:40
ALSHS
Server



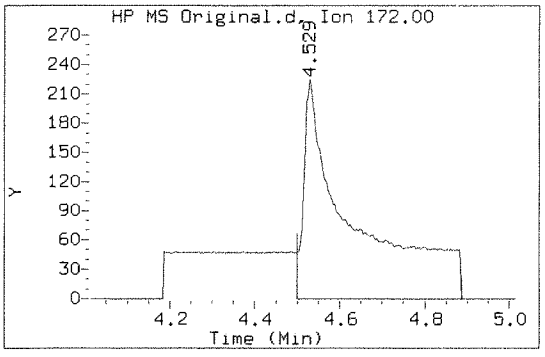
AFTER
MASS
212
AREA
98
HEIGHT
42
12-Jun-2024
13:00



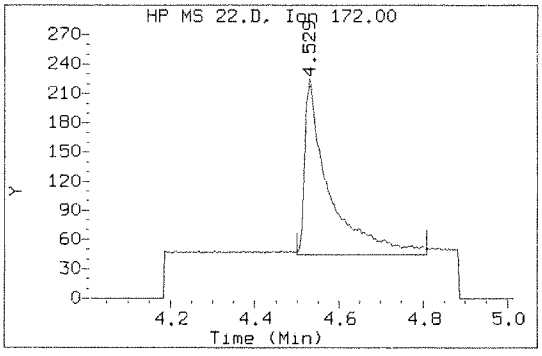
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
1789
HEIGHT
225
07-Jun-2024
20:40
ALSHS
Server



AFTER
MASS
172
AREA
742
HEIGHT
181
12-Jun-2024
13:00



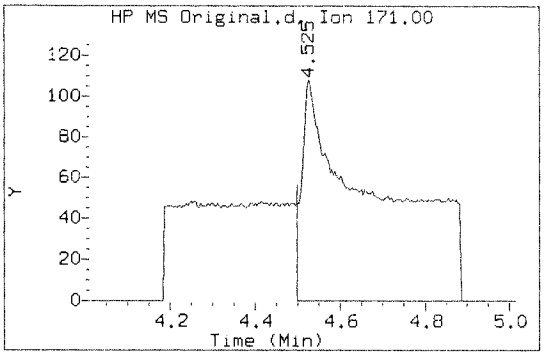
Data File : \\NAHSTWS005\Target\chem\SV6.i\240607.b\22.D
Inj Date : 07-JUN-2024 20:22
InstruID : SV6.i
LabSampID : HS24051669-01

2-Fluorobiphenyl (321-60-8)

Reason Code:

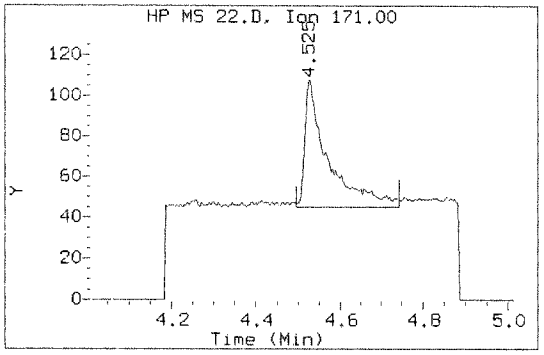
BEFORE

MASS
171
AREA
1313
HEIGHT
108
07-Jun-2024
20:40
ALSHS
Server



AFTER

MASS
171
AREA
240
HEIGHT
63
12-Jun-2024
13:00



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\23.D Page 1
Report Date: 21-Jun-2024 13:06

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\23.D
Lab Smp Id: HS24051434-06
Inj Date : 31-MAY-2024 20:08
Operator : LG Inst ID: SV6.i
Smp Info : HS24051434-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

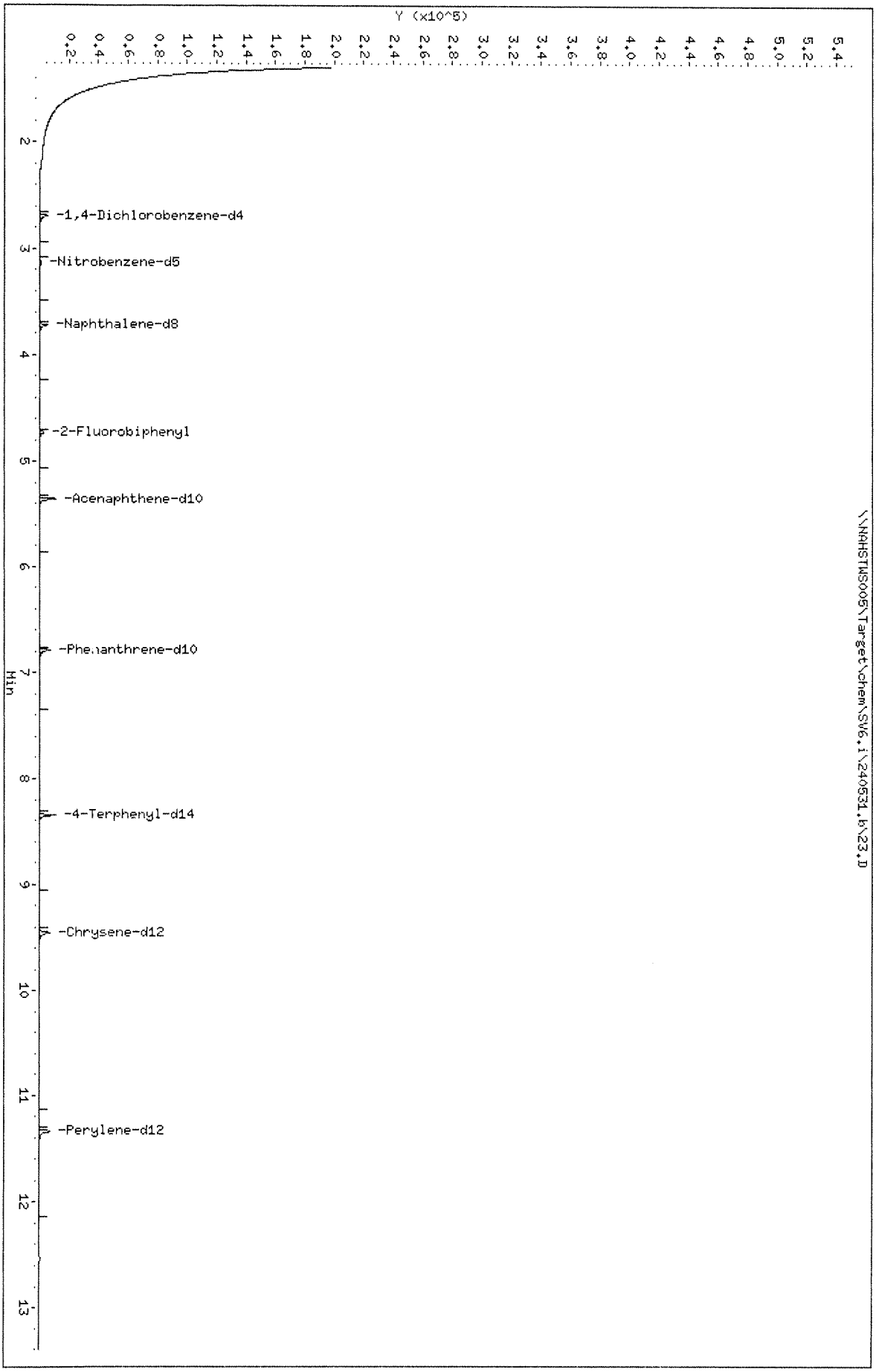
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2929	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	9576	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.125	3.135	(0.838)	1531	0.05326	0.05326	(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	6069	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	4767	0.05138	0.05138	(M)
* 126 Phenanthrene-d10	188	6.789	6.789	(1.000)	12115	0.10000		(M)
* 182 Chrysene-d12	240	9.456	9.462	(1.000)	9877	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	12614	0.06269	0.06269	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	10761	0.10000		
1 1,4-Dioxane	58	1.278	1.267	(0.475)	553	0.08814	0.08814	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\23.D
Date : 31-MAY-2024 20:08
Client ID:
Sample Info: HS24051434-06
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\23.D

Date : 31-MAY-2024 20:08

Client ID:

Instrument: SV6.i

Sample Info: HS24051434-06

Purge Volume: 1000.0

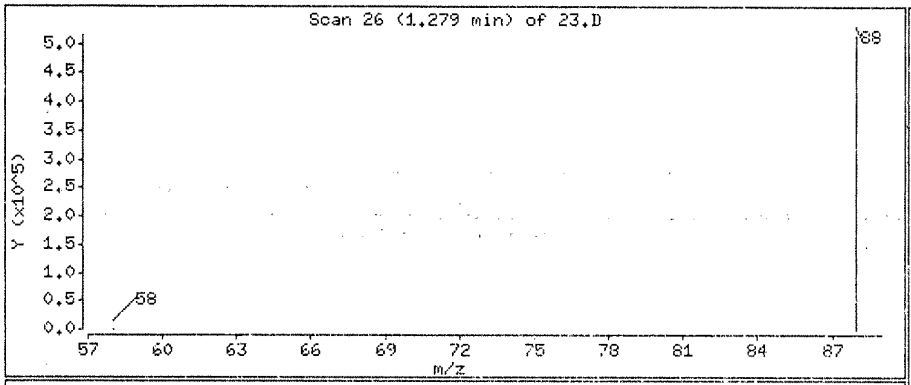
Operator: LG

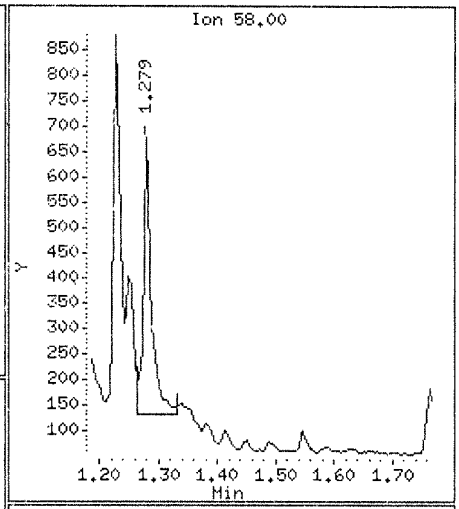
Column phase: RTX-5SIL MS

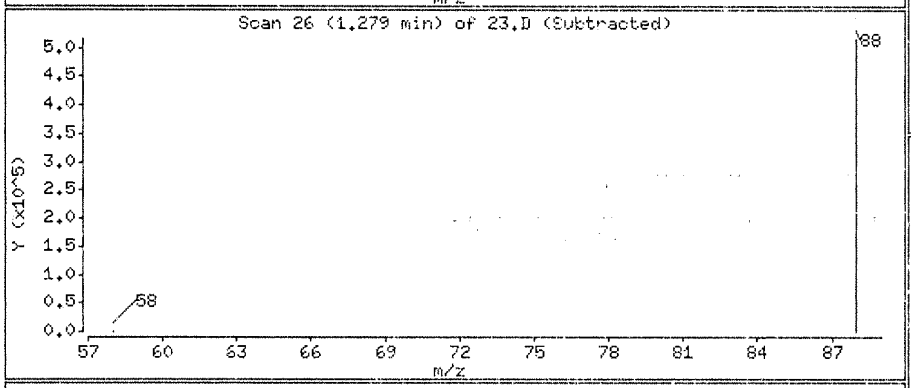
Column diameter: 0.28

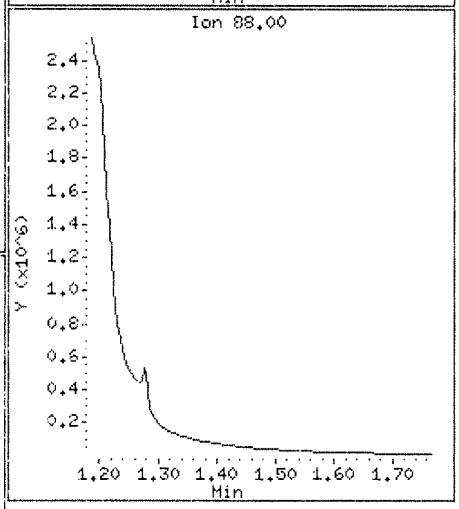
1 1,4-Dioxane

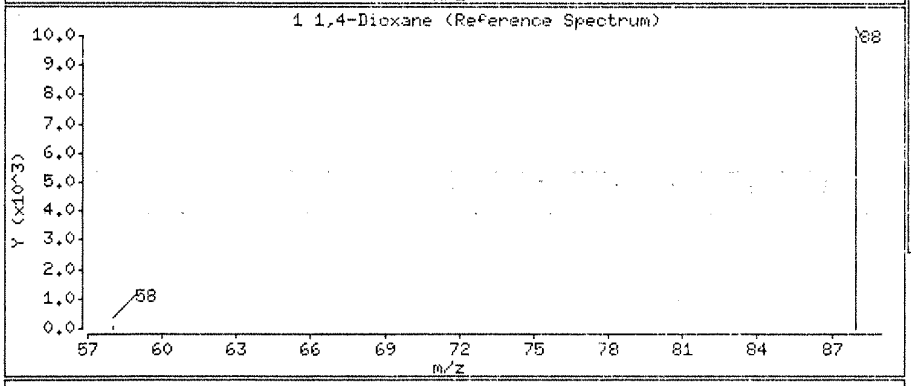
Concentration: 0.08814 ug/L

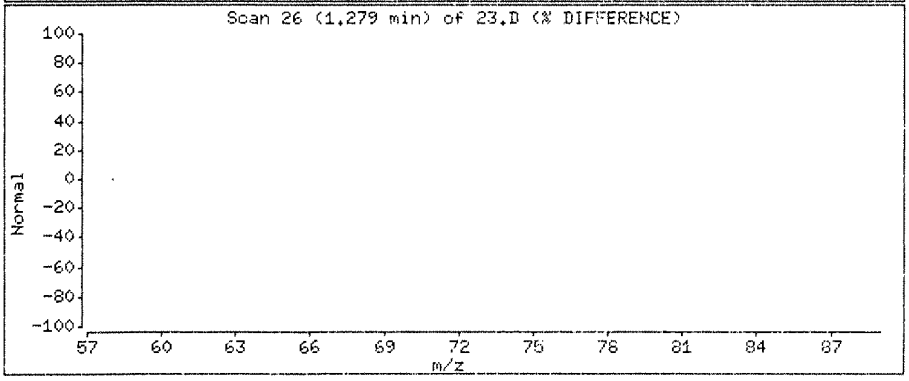










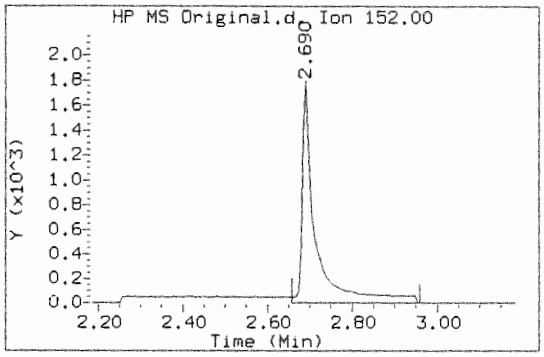


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\23.D
Inj Date : 31-MAY-2024 20:08
InstruID : SV6.i
LabSampID : HS24051434-06

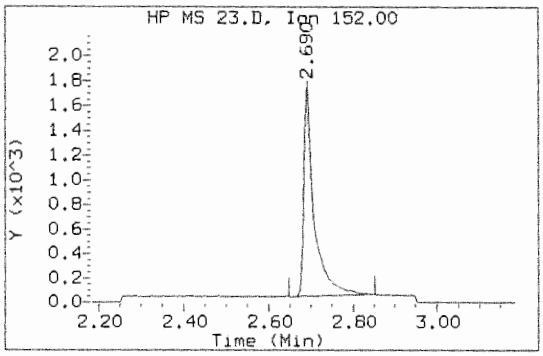
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

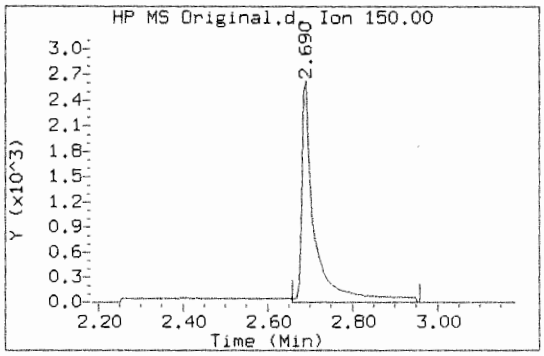
BEFORE
MASS
152
AREA
3956
HEIGHT
1798
31-May-2024
20:23
ALSHS
Server



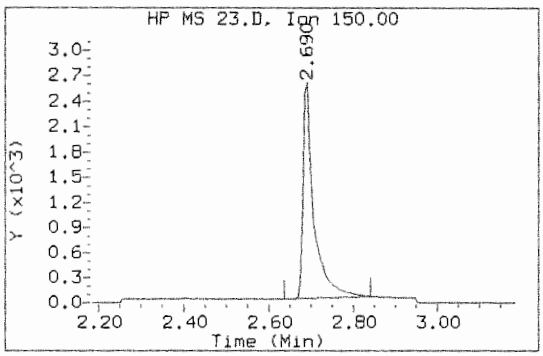
AFTER
MASS
152
AREA
2929
HEIGHT
1745
03-Jun-2024
10:36



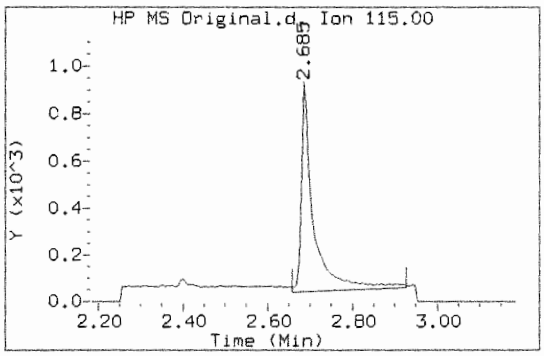
BEFORE
MASS
150
AREA
5684
HEIGHT
2625
31-May-2024
20:23
ALSHS
Server



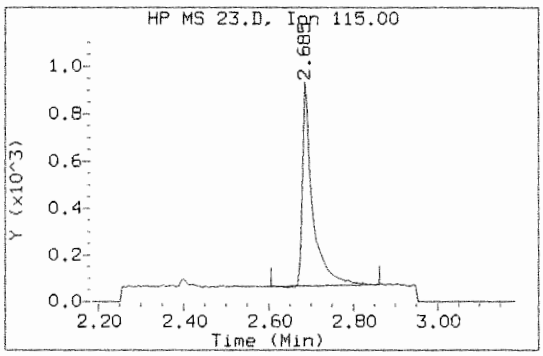
AFTER
MASS
150
AREA
4542
HEIGHT
2569
03-Jun-2024
10:36



BEFORE
MASS
115
AREA
1787
HEIGHT
891
31-May-2024
20:23
ALSHS
Server



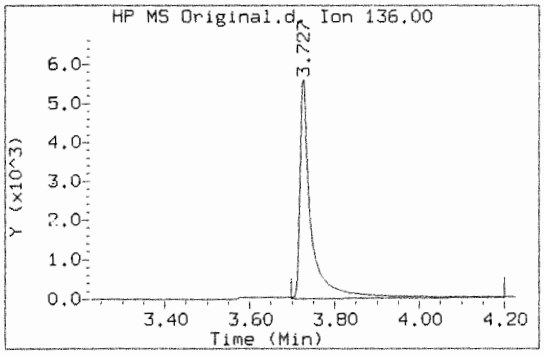
AFTER
MASS
115
AREA
1442
HEIGHT
865
03-Jun-2024
10:36



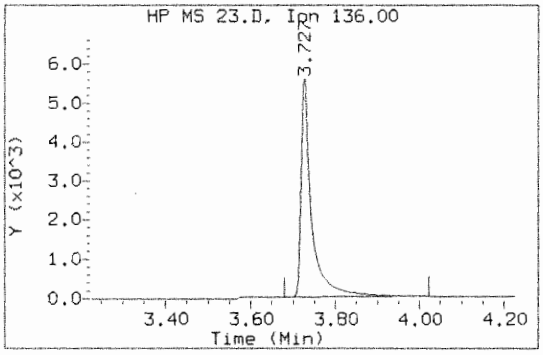
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9604
HEIGHT
5611
31-May-2024
20:23
ALSHS
Server



AFTER
MASS
136
AREA
9576
HEIGHT
5573
03-Jun-2024
10:36



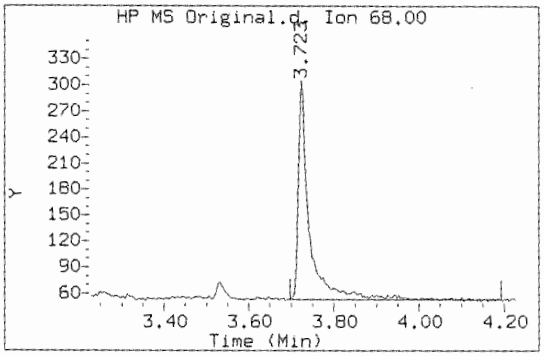
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Inj Date : 31-MAY-2024 20:08
InstruID : SV6.i
LabSampID : HS24051434-06

Naphthalene-d8 (1146-65-2)

Reason Code:

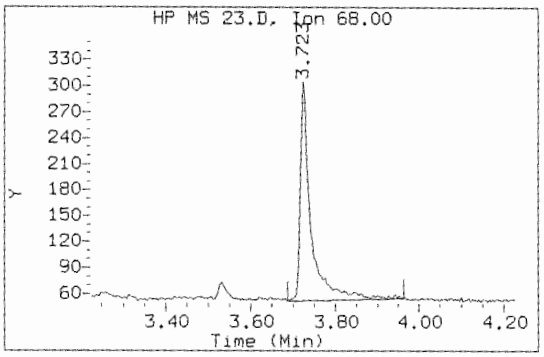
BEFORE

MASS 68
AREA 457
HEIGHT 252
31-May-2024 20:23
ALSHS Server



AFTER

MASS 68
AREA 440
HEIGHT 252
03-Jun-2024 10:36

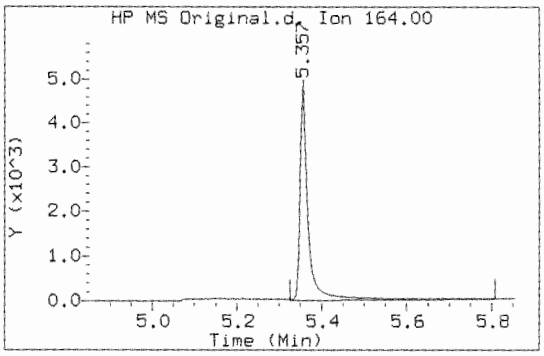


Acenaphthene-d10 (15067-26-2)

Reason Code:

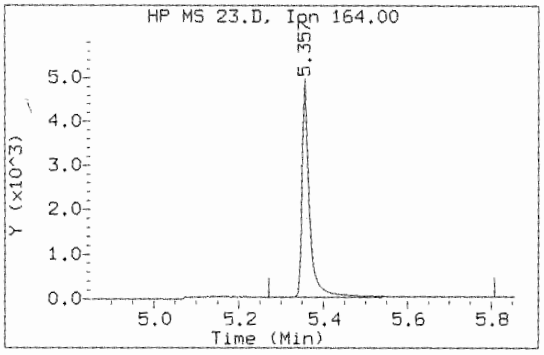
BEFORE

MASS 164
AREA 6600
HEIGHT 4960
31-May-2024 20:23
ALSHS Server



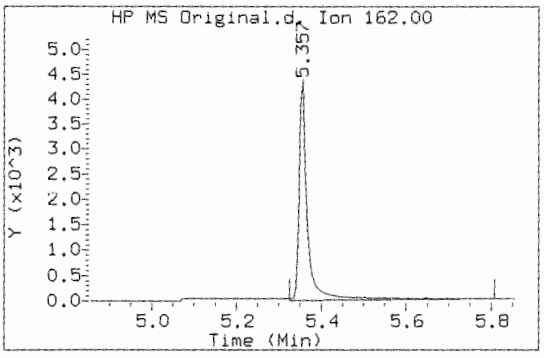
AFTER

MASS 164
AREA 6069
HEIGHT 4931
03-Jun-2024 10:36



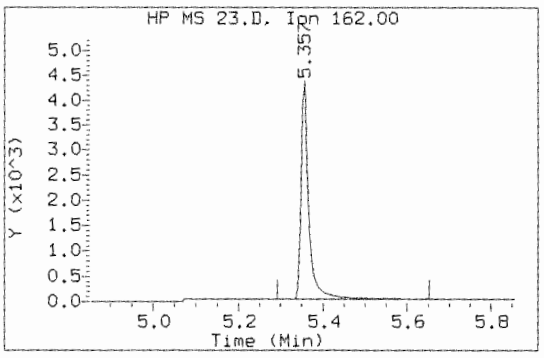
BEFORE

MASS 162
AREA 6076
HEIGHT 4381
31-May-2024 20:23
ALSHS Server



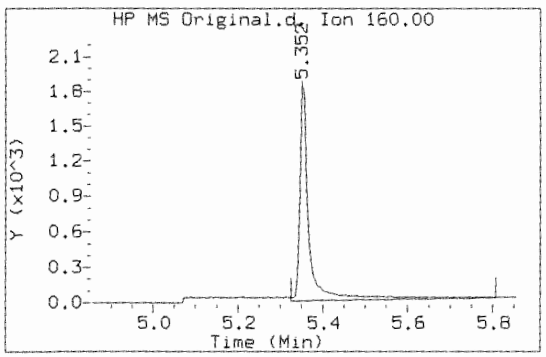
AFTER

MASS 162
AREA 5476
HEIGHT 4350
03-Jun-2024 10:36



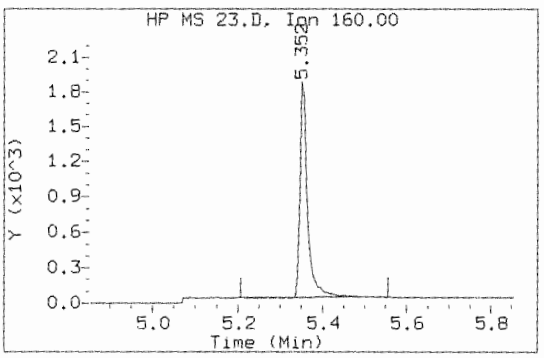
BEFORE

MASS 160
AREA 3851
HEIGHT 2872
31-May-2024 20:23
ALSHS Server



AFTER

MASS 160
AREA 2294
HEIGHT 1840
03-Jun-2024 10:36

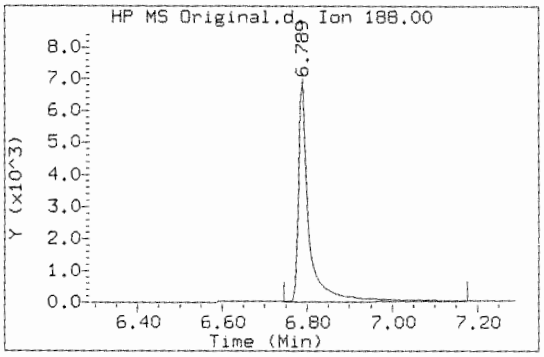


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Inj Date : 31-MAY-2024 20:08
InstruID : SV6.i
LabSampID : HS24051434-06

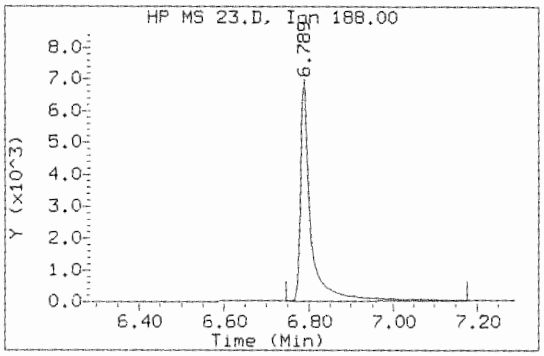
Phenanthrene-d10 (1517-22-2)

Reason Code:

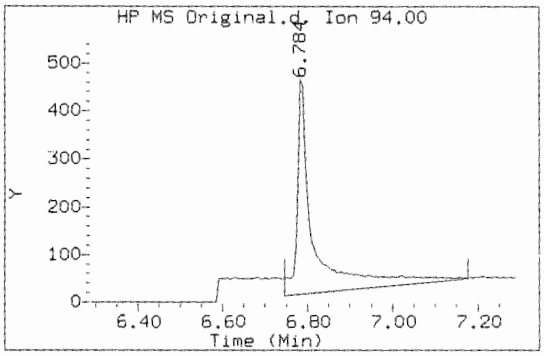
BEFORE
MASS
188
AREA
12115
HEIGHT
6986
31-May-2024
20:23
ALSHS
Server



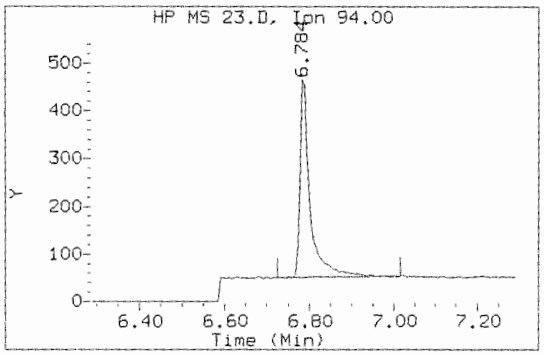
AFTER
MASS
188
AREA
12115
HEIGHT
6986
03-Jun-2024
10:36



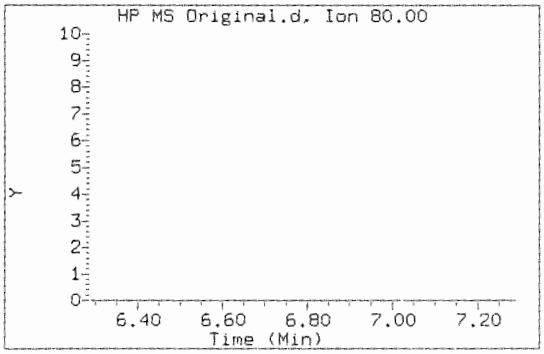
BEFORE
MASS
94
AREA
1239
HEIGHT
449
31-May-2024
20:23
ALSHS
Server



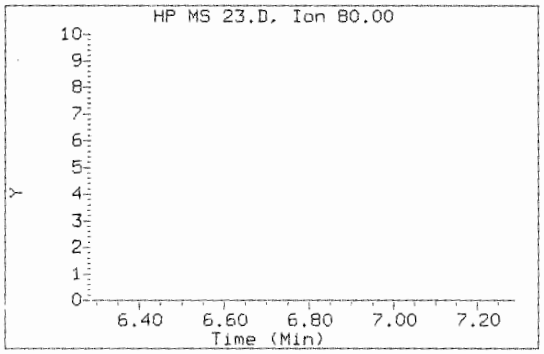
AFTER
MASS
94
AREA
688
HEIGHT
414
03-Jun-2024
10:36



BEFORE
MASS
80
AREA
0
HEIGHT
0
31-May-2024
20:23
ALSHS
Server



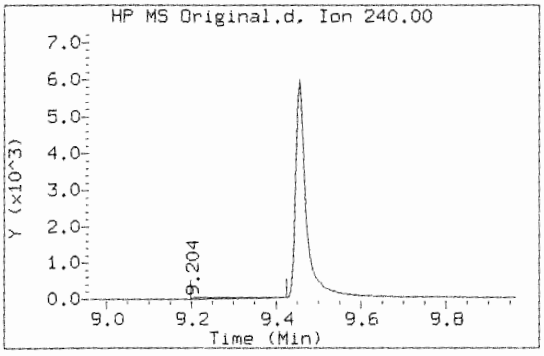
AFTER
MASS
80
AREA
0
HEIGHT
0
03-Jun-2024
10:36



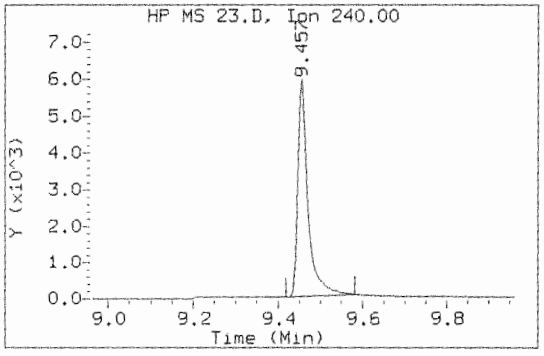
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
310
HEIGHT
7
1-May-2024
0:23
LSHS
rver



AFTER
MASS
240
AREA
9877
HEIGHT
5934
03-Jun-2024
10:36

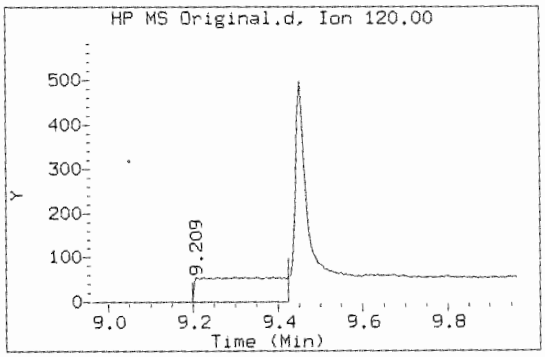


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Inj Date : 31-MAY-2024 20:08
InstruID : SV6.i
LabSampID : HS24051434-06

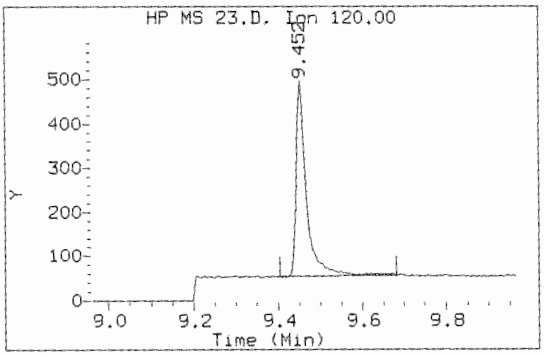
Chrysene-d12 (1719-03-5)

Reason Code:

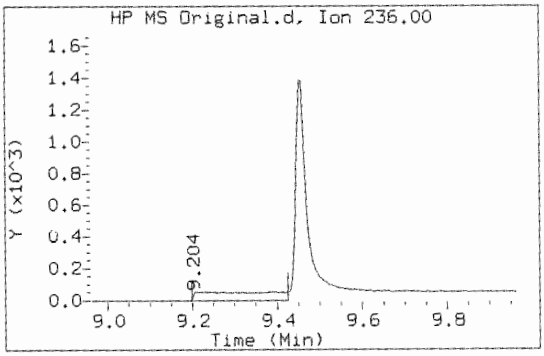
BEFORE
MASS
120
AREA
720
HEIGHT
55
31-May-2024
20:23
ALSHS
Server



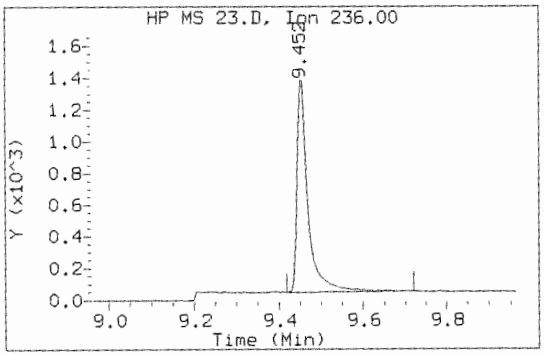
AFTER
MASS
120
AREA
762
HEIGHT
442
03-Jun-2024
10:36



BEFORE
MASS
236
AREA
670
HEIGHT
53
31-May-2024
20:23
ALSHS
Server



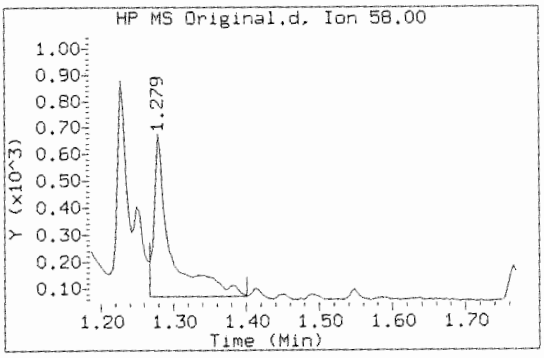
AFTER
MASS
236
AREA
2399
HEIGHT
1332
03-Jun-2024
10:36



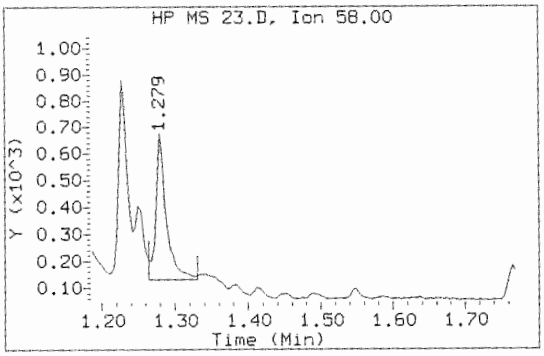
1,4-Dioxane ()

Reason Code:

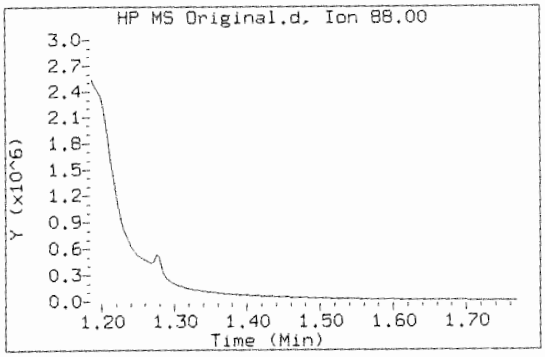
BEFORE
MASS
58
AREA
965
HEIGHT
605
31-May-2024
20:23
ALSHS
Server



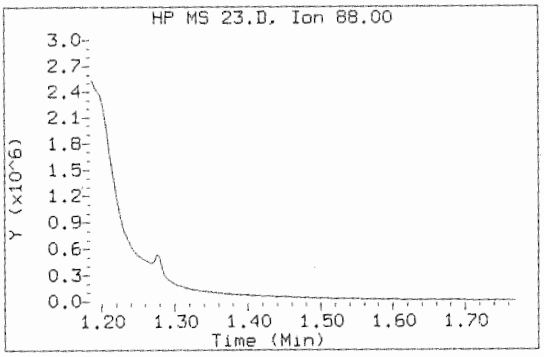
AFTER
MASS
58
AREA
553
HEIGHT
546
03-Jun-2024
10:36



BEFORE
MASS
88
AREA
)
HEIGHT
1-May-2024
0:23
LSHS
erver



AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jun-2024
10:36

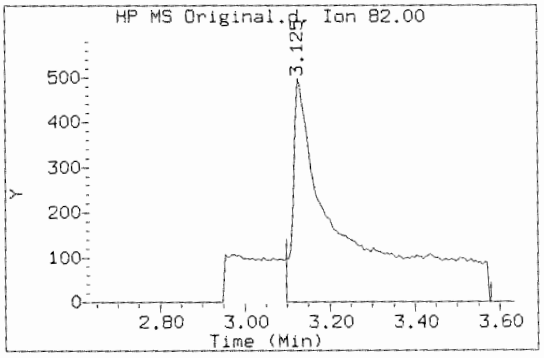


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Inj Date : 31-MAY-2024 20:08
InstruID : SV6.i
LabSampID : HS24051434-06

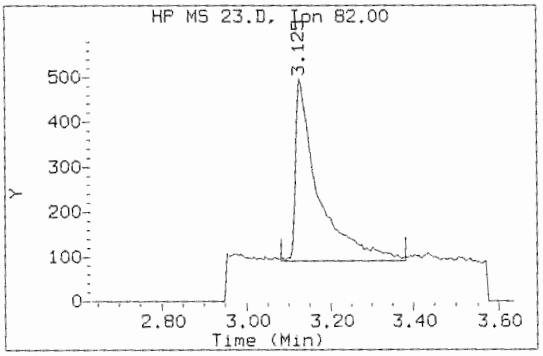
Nitrobenzene-d5 (4165-60-0)

Reason Code:

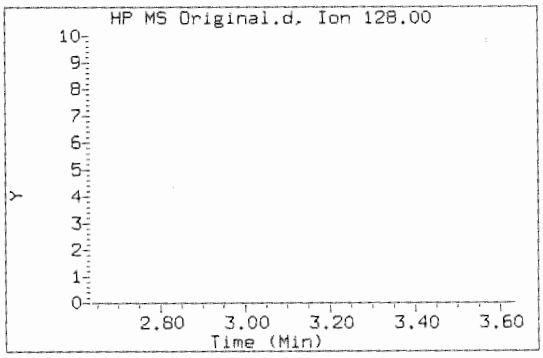
BEFORE
MASS
82
AREA
4178
HEIGHT
498
31-May-2024
20:23
ALSHS
Server



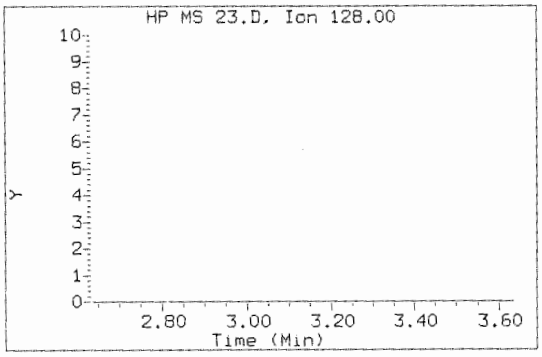
AFTER
MASS
82
AREA
1531
HEIGHT
407
03-Jun-2024
10:36



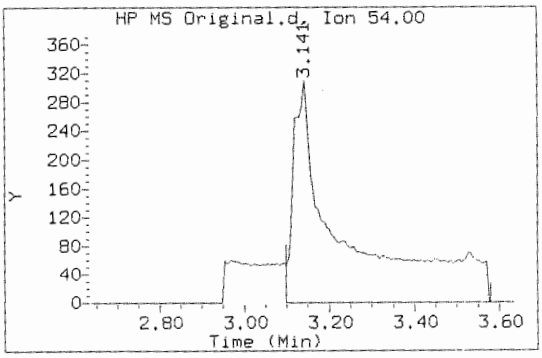
BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
20:23
ALSHS
Server



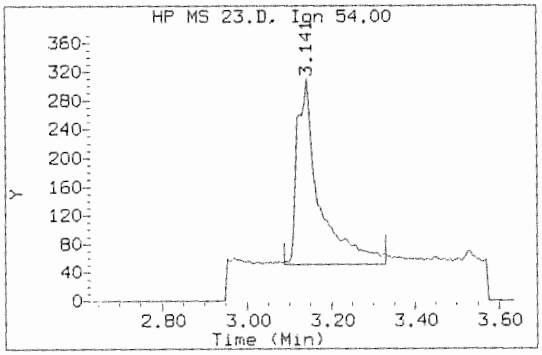
AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
10:36



BEFORE
MASS
54
AREA
2524
HEIGHT
310
31-May-2024
20:23
ALSHS
Server



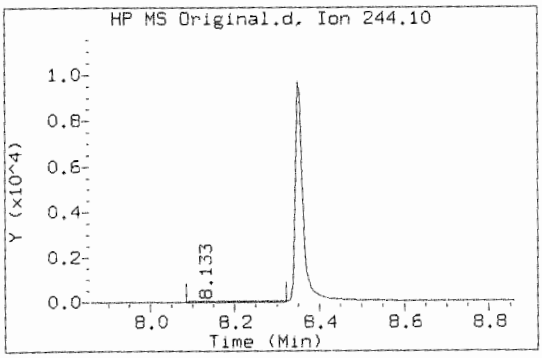
AFTER
MASS
54
AREA
953
HEIGHT
259
03-Jun-2024
10:36



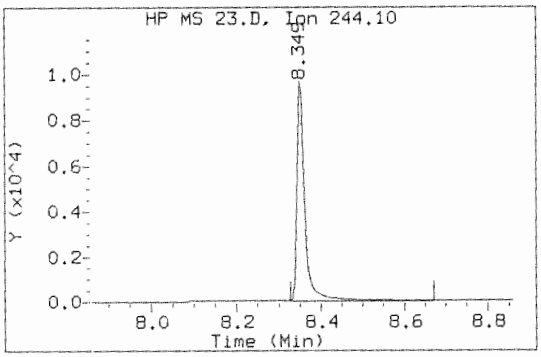
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
657
HEIGHT
48
31-May-2024
20:23
ALSHS
Server



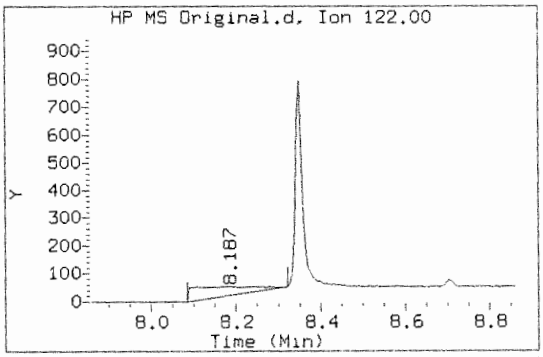
AFTER
MASS
244.1
AREA
12614
HEIGHT
9645
03-Jun-2024
10:36



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Inj Date : 31-MAY-2024 20:08
InstruID : SV6.i
LabSampID : HS24051434-06

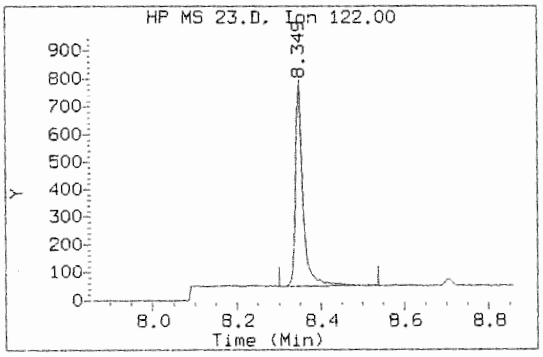
4-Terphenyl-d14 (1718-51-0)

BEFORE
MASS
122
AREA
338
HEIGHT
30
31-May-2024
20:23
ALSHS
Server

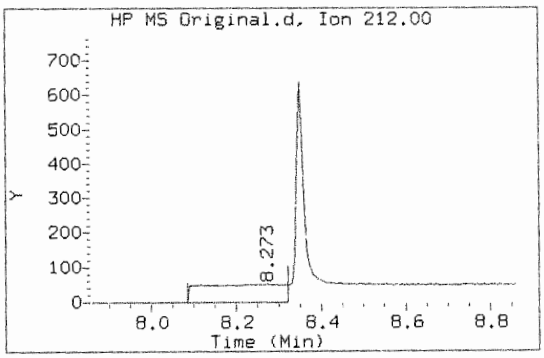


Reason Code:

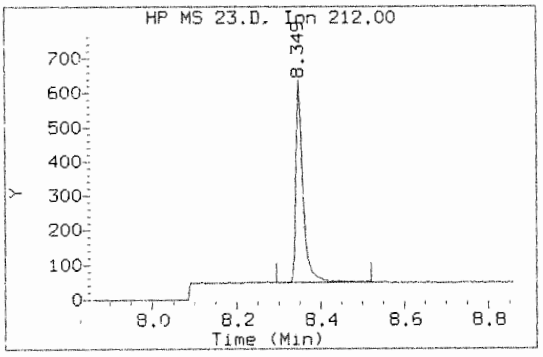
AFTER
MASS
122
AREA
910
HEIGHT
744
03-Jun-2024
10:36



BEFORE
MASS
212
AREA
685
HEIGHT
51
31-May-2024
20:23
ALSHS
Server

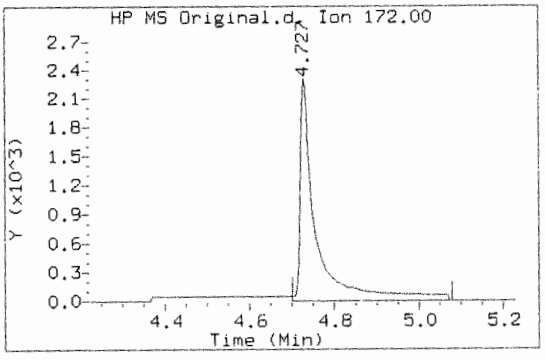


AFTER
MASS
212
AREA
680
HEIGHT
587
03-Jun-2024
10:36



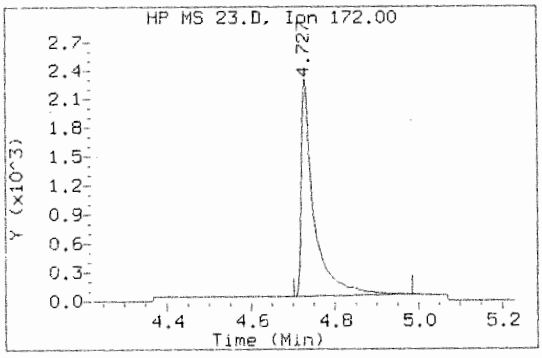
2-Fluorobiphenyl (321-60-8)

BEFORE
MASS
172
AREA
6062
HEIGHT
2305
31-May-2024
20:23
ALSHS
Server

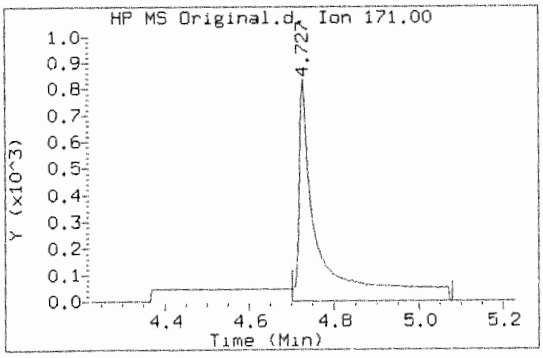


Reason Code:

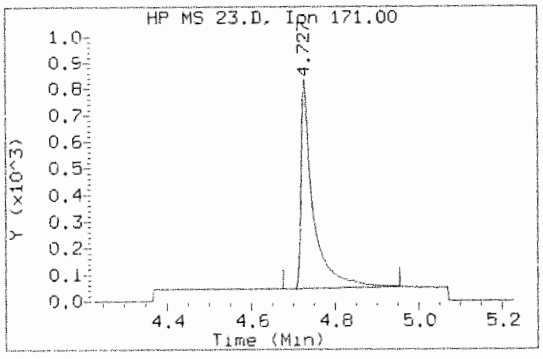
AFTER
MASS
172
AREA
4767
HEIGHT
2257
03-Jun-2024
10:36



BEFORE
MASS
171
AREA
708
HEIGHT
47
-May-2024
:23
SHS
rver



AFTER
MASS
171
AREA
1573
HEIGHT
790
03-Jun-2024
10:36



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Lab Smp Id: HS24051669-02
Inj Date : 31-MAY-2024 20:43
Operator : LG Inst ID: SV6.i
Smp Info : HS24051669-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

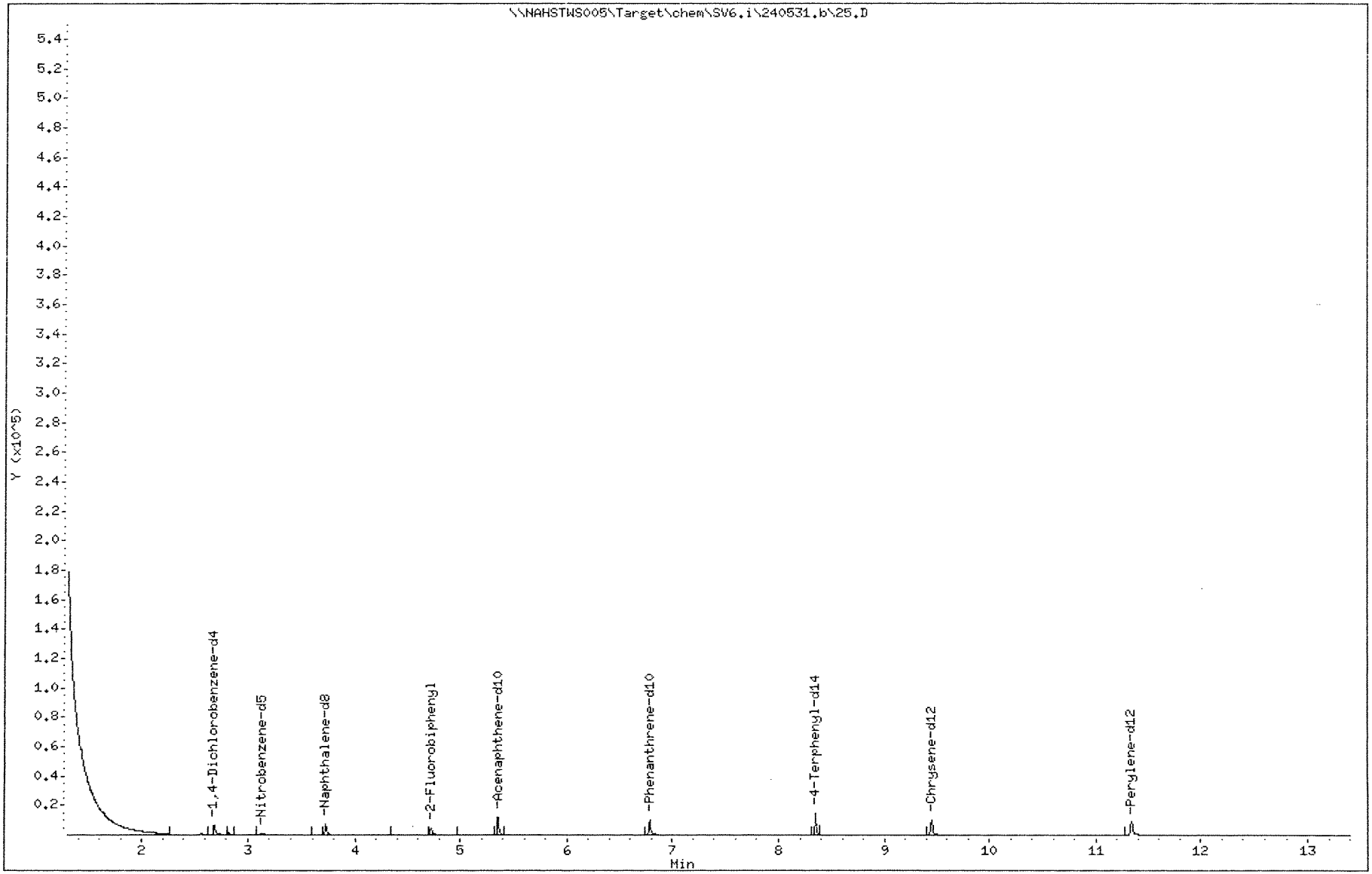
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	3055	0.10000		(aM)
* 45 Naphthalene-d8	136	3.723	3.727	(1.000)	9746	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.125	3.135	(0.839)	1940	0.06631	0.06631	(M)
* 86 Acenaphthene-d10	164	5.356	5.356	(1.000)	6294	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	5914	0.06147	0.06147	(M)
* 126 Phenanthrene-d10	188	6.783	6.789	(1.000)	12001	0.10000		(M)
* 182 Chrysene-d12	240	9.451	9.462	(1.000)	11105	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.883)	13878	0.06135	0.06134	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	12467	0.10000		(M)
1 1,4-Dioxane	58	1.242	1.267	(0.462)	3243	0.49560	0.4956	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Date : 31-MAY-2024 20:43
Client ID:
Sample Info: HS24051669-02
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D

Date : 31-MAY-2024 20:43

Client ID:

Instrument: SV6.i

Sample Info: HS24051669-02

Purge Volume: 1000.0

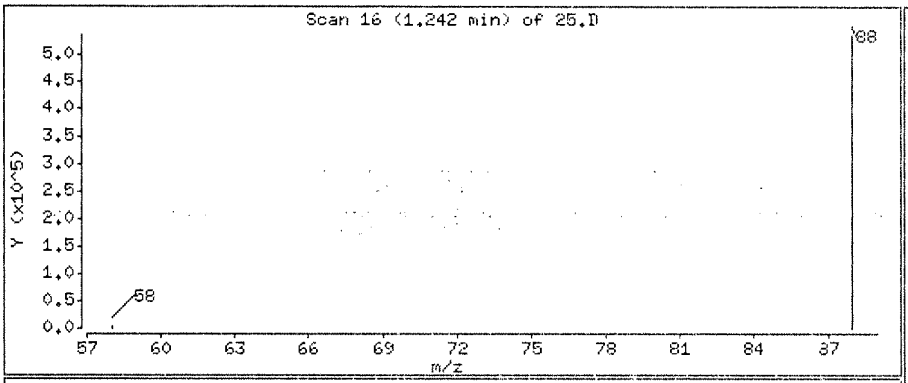
Operator: LG

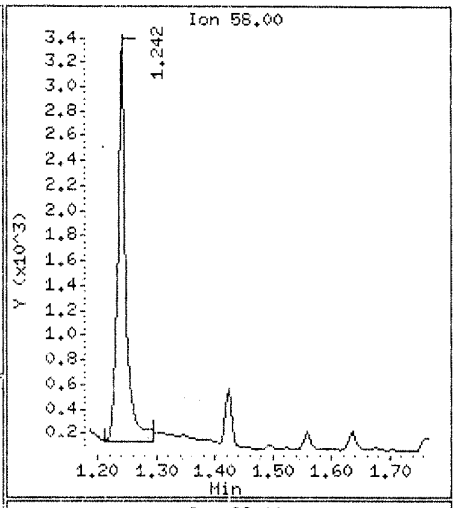
Column phase: RTX-5SIL MS

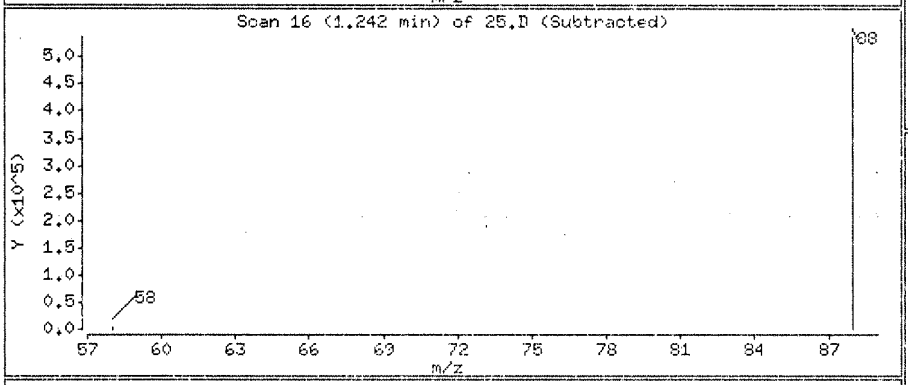
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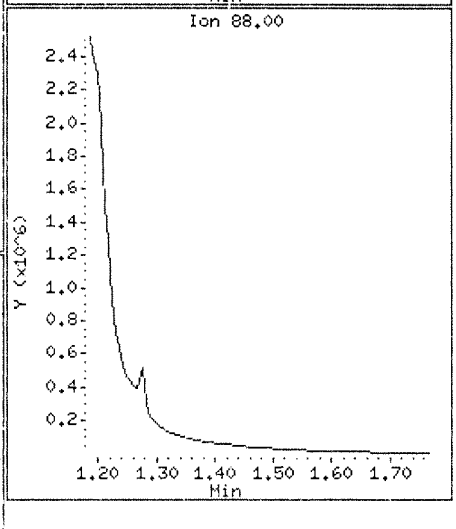
1 1,4-Dioxane

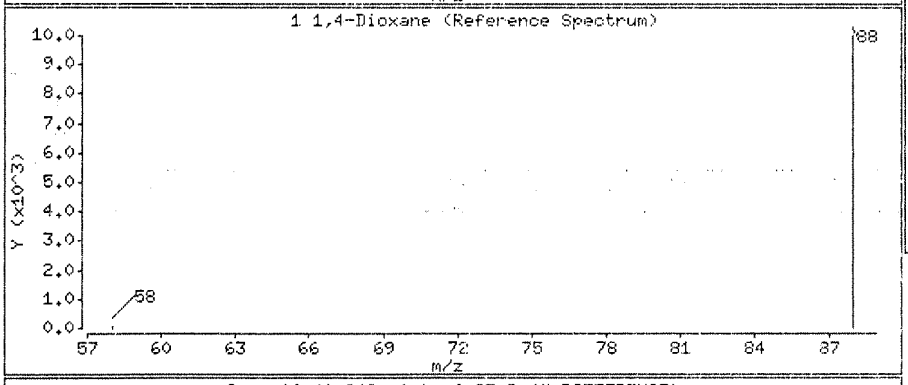
Concentration: 0.4956 ug/L

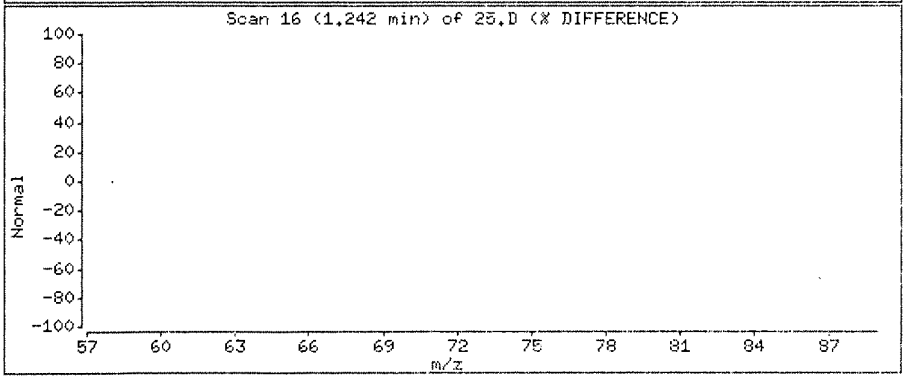










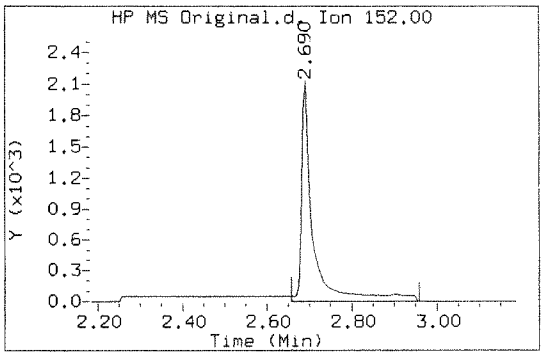


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InstruID : SV6.i
LabSampID : HS24051669-02

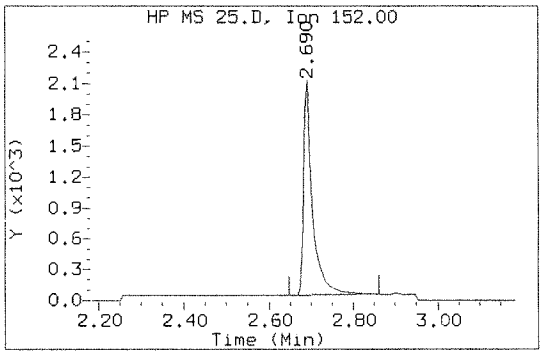
1,4-Dichlorobenzene-d4 (3855-82-1)

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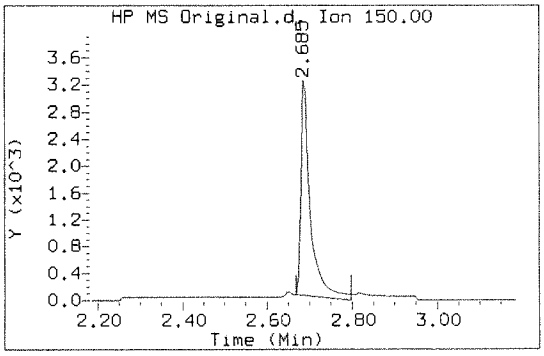
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HEIGHT
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31-May-2024
20:57
ALSHS
Server



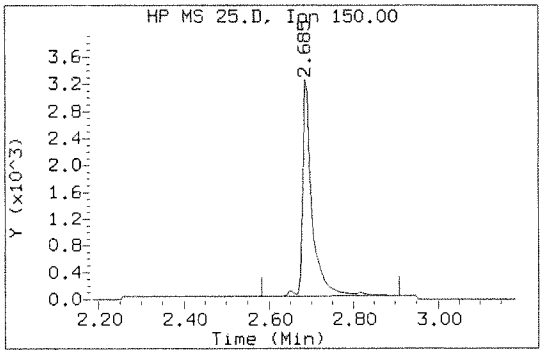
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HEIGHT
2076
03-Jun-2024
10:40



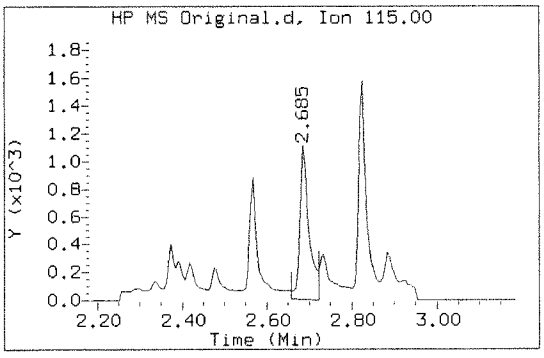
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31-May-2024
20:57
ALSHS
Server



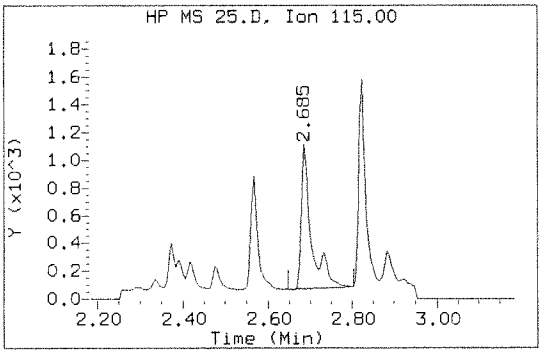
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MASS
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AREA
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HEIGHT
3217
03-Jun-2024
10:40



BEFORE
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31-May-2024
20:57
ALSHS
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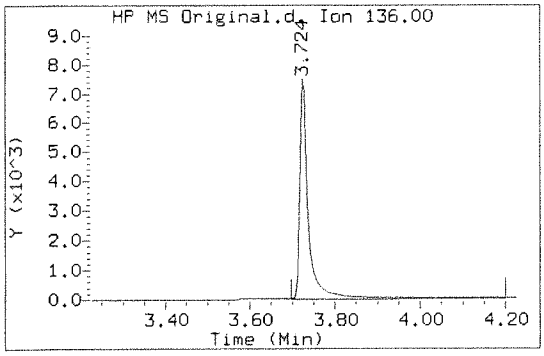
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HEIGHT
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03-Jun-2024
10:40



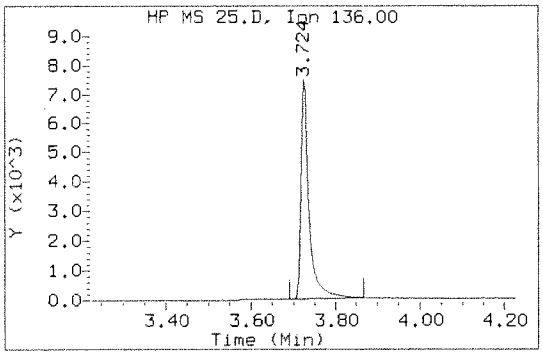
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11061
HEIGHT
7514
31-May-2024
20:57
ALSHS
Server



AFTER
MASS
136
AREA
9746
HEIGHT
7470
03-Jun-2024
10:40

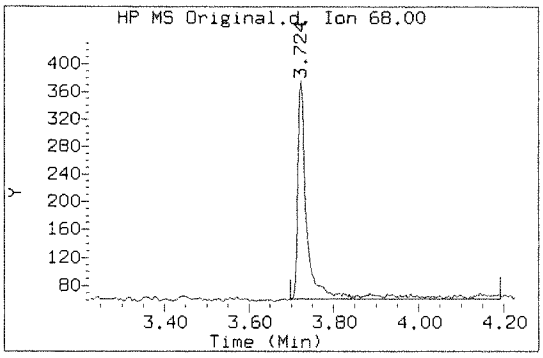


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InstruID : SV6.i
LabSampID : HS24051669-02

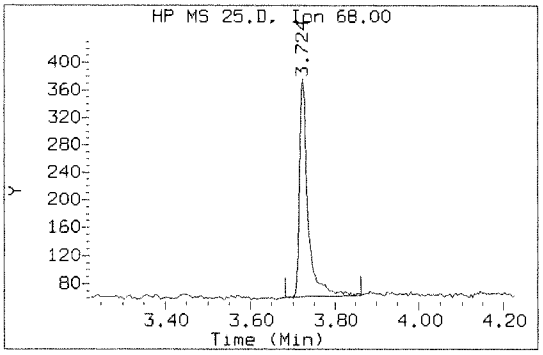
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
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AREA
502
HEIGHT
314
31-May-2024
20:57
ALSHS
Server



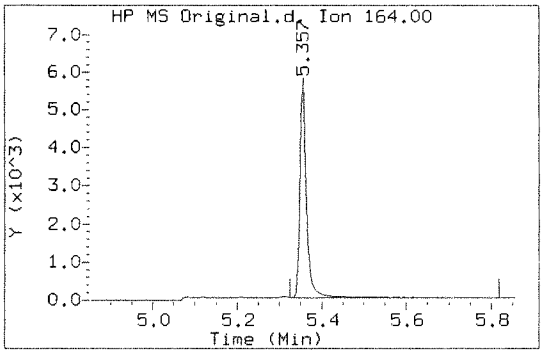
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MASS
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AREA
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HEIGHT
313
03-Jun-2024
10:40



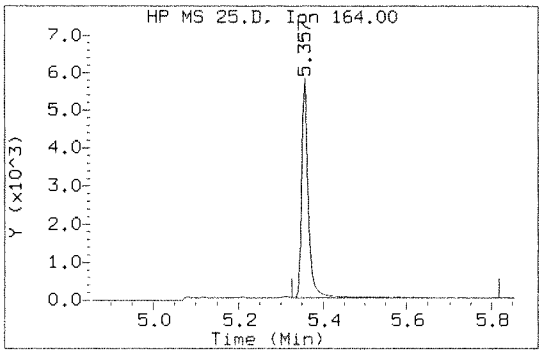
Acenaphthene-d10 (15067-26-2)

Reason Code:

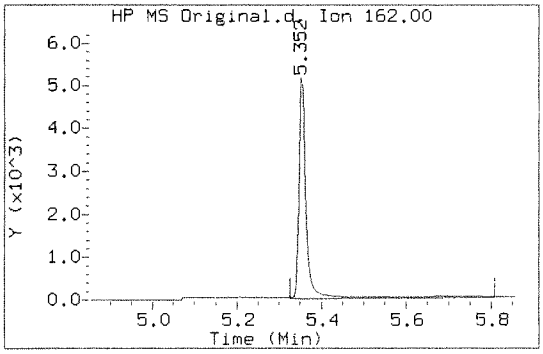
BEFORE
MASS
164
AREA
6294
HEIGHT
5772
31-May-2024
20:57
ALSHS
Server



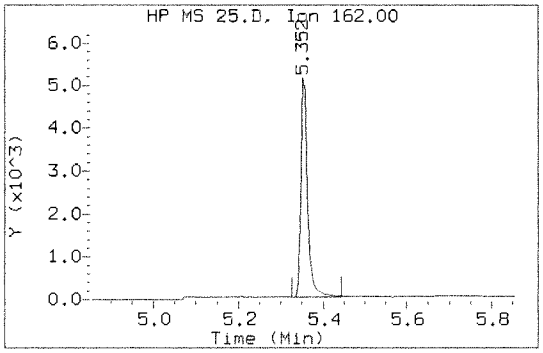
AFTER
MASS
164
AREA
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HEIGHT
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03-Jun-2024
10:40



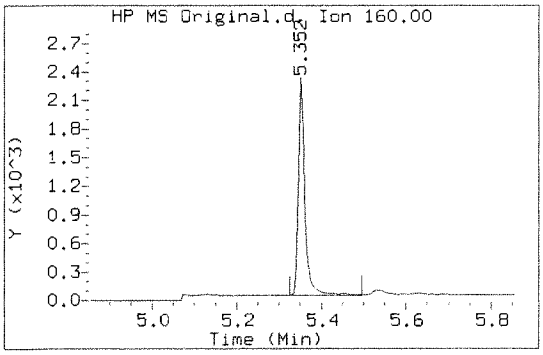
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MASS
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AREA
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HEIGHT
5158
31-May-2024
20:57
ALSHS
Server



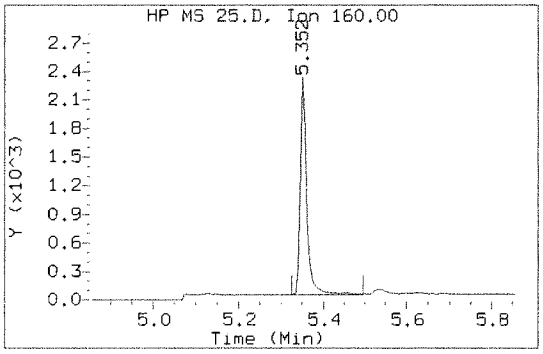
AFTER
MASS
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AREA
5677
HEIGHT
5130
03-Jun-2024
10:40



BEFORE
MASS
160
AREA
2415
HEIGHT
2279
31-May-2024
20:57
ALSHS
Server



AFTER
MASS
160
AREA
2415
HEIGHT
2279
03-Jun-2024
10:40

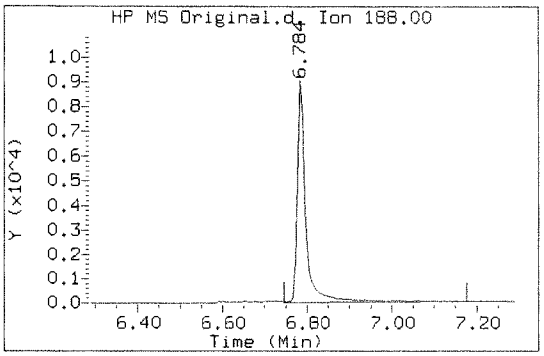


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Inj Date : 31-MAY-2024 20:43
InstruID : SV6.i
LabSampID : HS24051669-02

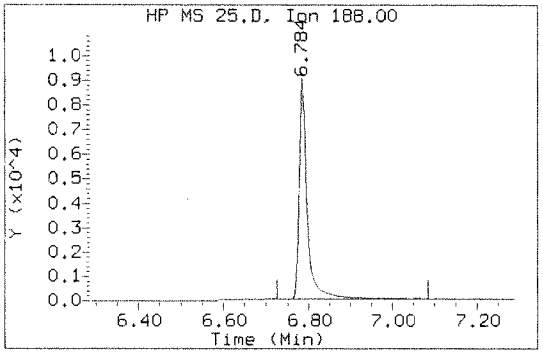
Phenanthrene-d10 (1517-22-2)

Reason Code:

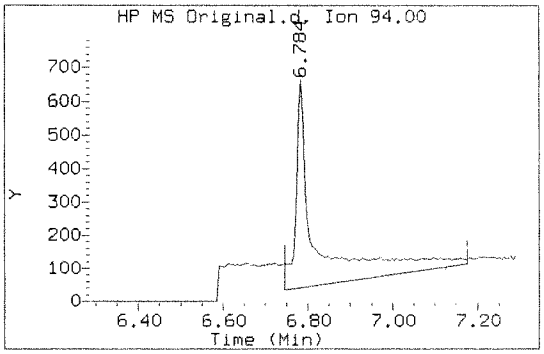
BEFORE
MASS 188
AREA 12966
HEIGHT 9046
31-May-2024 20:57
ALSHS Server



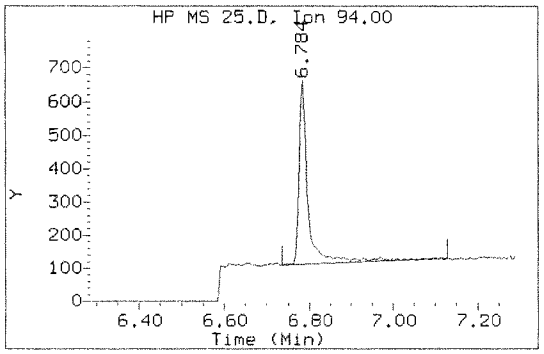
AFTER
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AREA 12001
HEIGHT 8998
03-Jun-2024 10:40



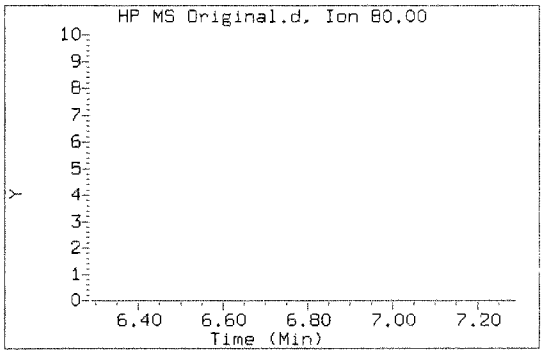
BEFORE
MASS 94
AREA 2038
HEIGHT 622
31-May-2024 20:57
ALSHS Server



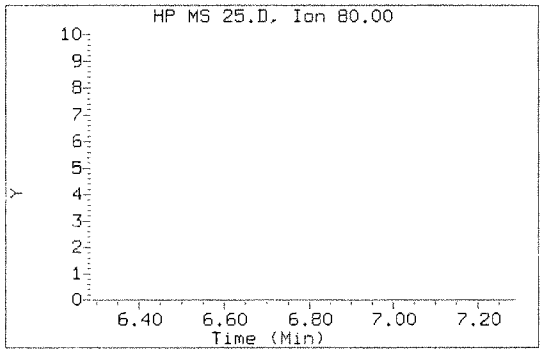
AFTER
MASS 94
AREA 831
HEIGHT 552
03-Jun-2024 10:40



BEFORE
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AREA 0
HEIGHT 0
31-May-2024 20:57
ALSHS Server



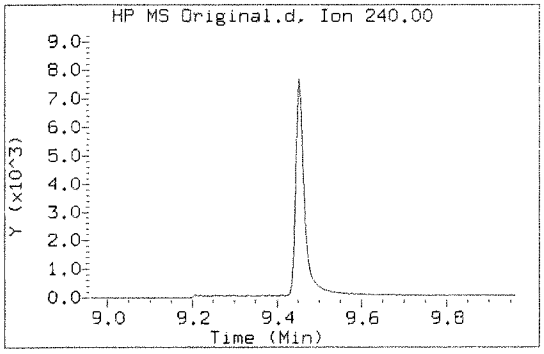
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HEIGHT 0
03-Jun-2024 10:40



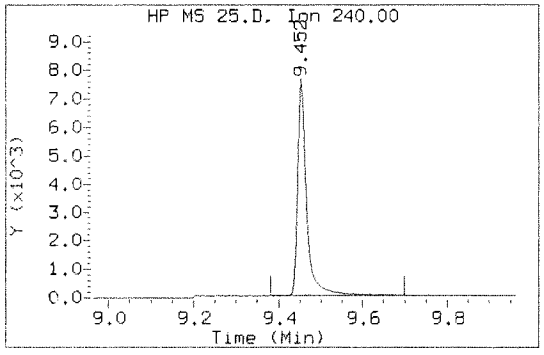
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS 240
AREA 0
HEIGHT 0
31-May-2024 20:57
ALSHS Server



AFTER
MASS 240
AREA 11105
HEIGHT 7630
03-Jun-2024 10:40

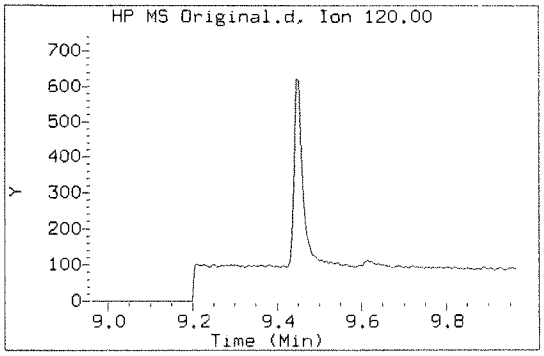


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LabSampID : HS24051669-02

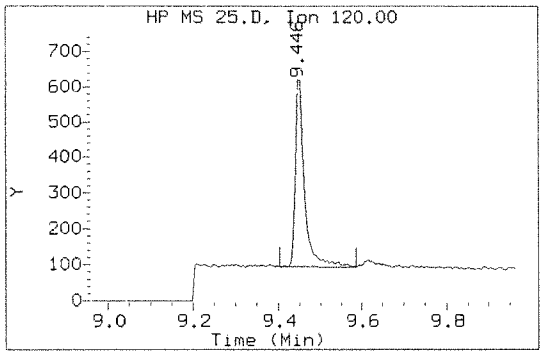
Chrysene-d12 (1719-03-5)

Reason Code:

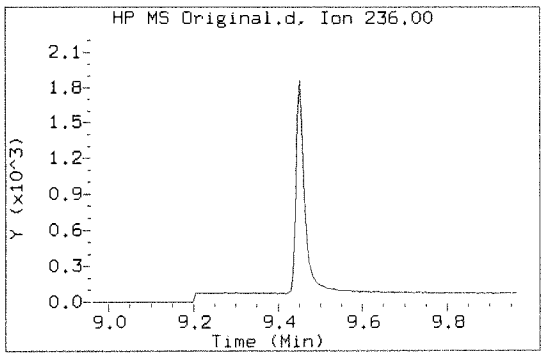
BEFORE
MASS
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AREA
0
HEIGHT
0
31-May-2024
20:57
ALSHS
Server



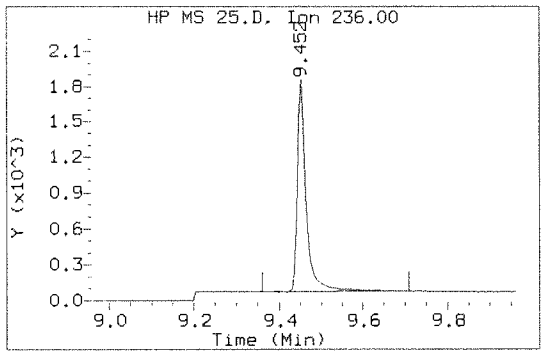
AFTER
MASS
120
AREA
793
HEIGHT
526
03-Jun-2024
10:40



BEFORE
MASS
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AREA
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HEIGHT
0
31-May-2024
20:57
ALSHS
Server



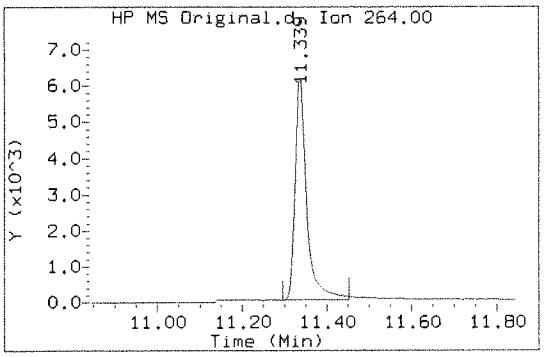
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HEIGHT
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03-Jun-2024
10:40



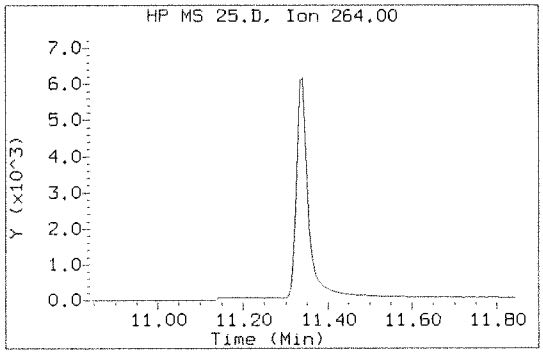
Perylene-d12 (1520-96-3)

Reason Code:

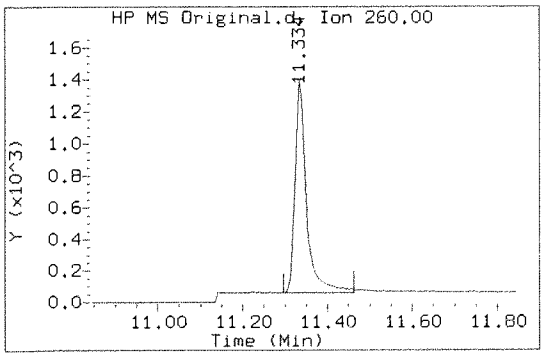
BEFORE
MASS
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AREA
11826
HEIGHT
6100
31-May-2024
20:57
ALSHS
Server



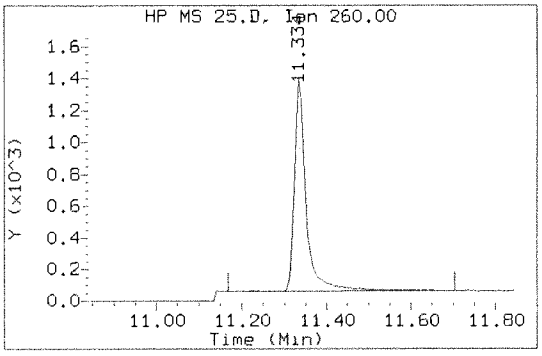
AFTER
MASS
264
AREA
12467
HEIGHT
6098
03-Jun-2024
10:40



BEFORE
MASS
260
AREA
2496
HEIGHT
1334
31-May-2024
20:57
ALSHS
Server



AFTER
MASS
260
AREA
2560
HEIGHT
1333
03-Jun-2024
10:40

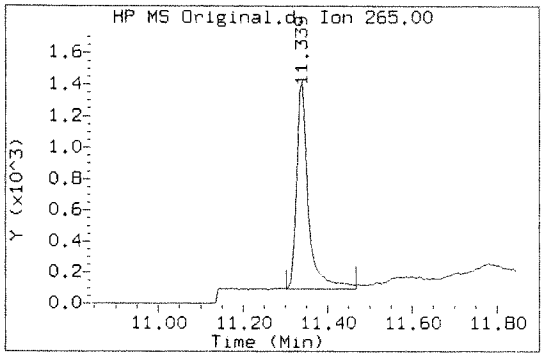


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Inj Date : 31-MAY-2024 20:43
InstruID : SV6.i
LabSampID : HS24051669-02

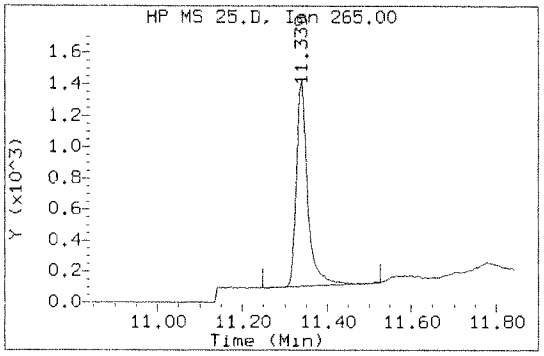
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
2564
HEIGHT
1329
31-May-2024
20:57
ALSHS
Server



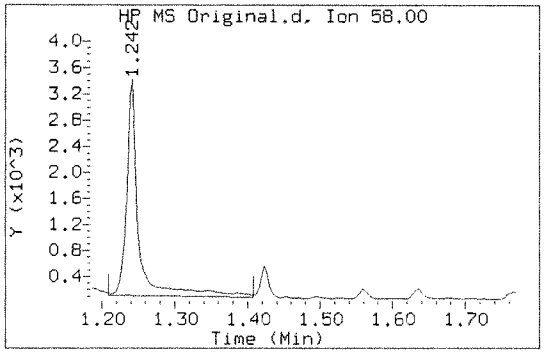
AFTER
MASS
265
AREA
2381
HEIGHT
1317
03-Jun-2024
10:40



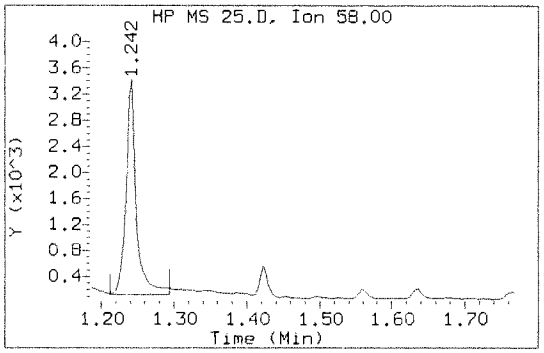
1,4-Dioxane ()

Reason Code:

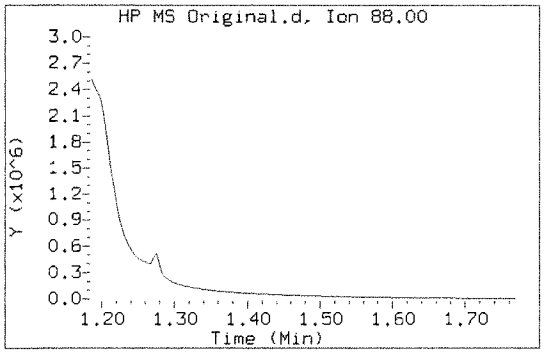
BEFORE
MASS
58
AREA
3820
HEIGHT
3309
31-May-2024
20:57
ALSHS
Server



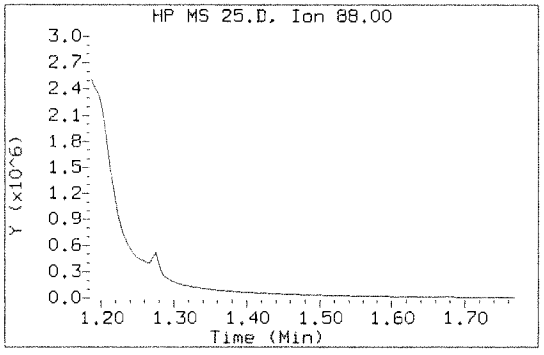
AFTER
MASS
58
AREA
3243
HEIGHT
3292
03-Jun-2024
10:40



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
20:57
ALSHS
Server



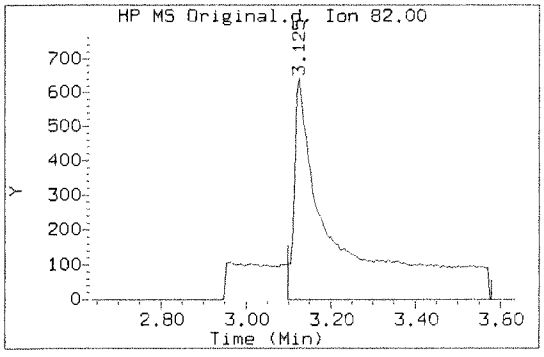
AFTER
MASS
88
AREA
0
HEIGHT
0
03-Jun-2024
10:40



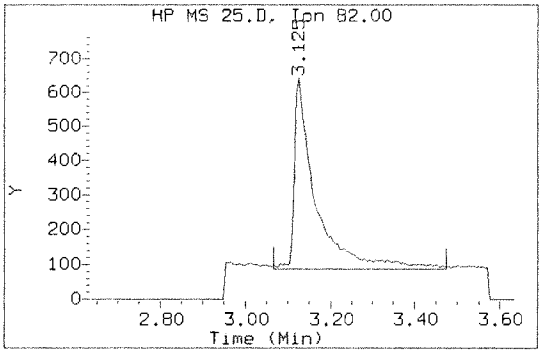
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
4436
HEIGHT
643
31-May-2024
20:57
ALSHS
Server



AFTER
MASS
82
AREA
1940
HEIGHT
556
03-Jun-2024
10:40

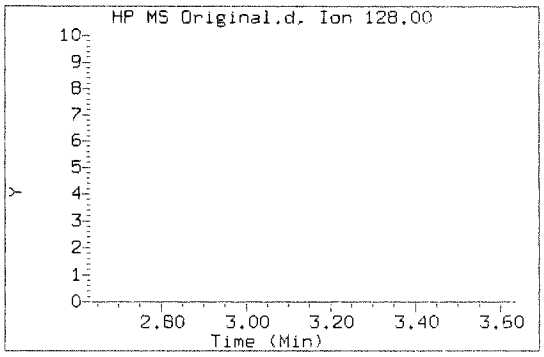


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Inj Date : 31-MAY-2024 20:43
InstruID : SV6.i
LabSampID : HS24051669-02

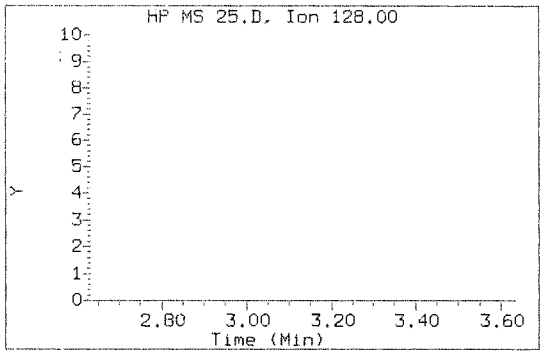
Nitrobenzene-d5 (4165-60-0)

Reason Code:

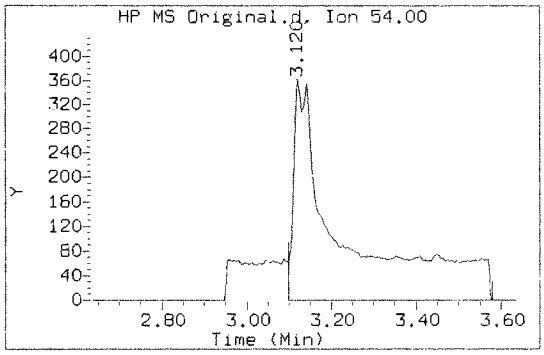
BEFORE
MASS 128
AREA 0
HEIGHT 0
31-May-2024 20:57
ALSHS Server



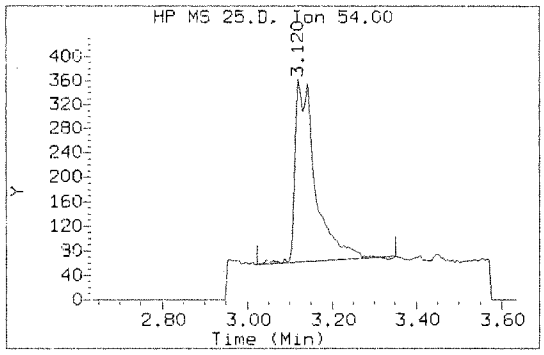
AFTER
MASS 128
AREA 0
HEIGHT 0
03-Jun-2024 10:40



BEFORE
MASS 54
AREA 2851
HEIGHT 363
31-May-2024 20:57
ALSHS Server



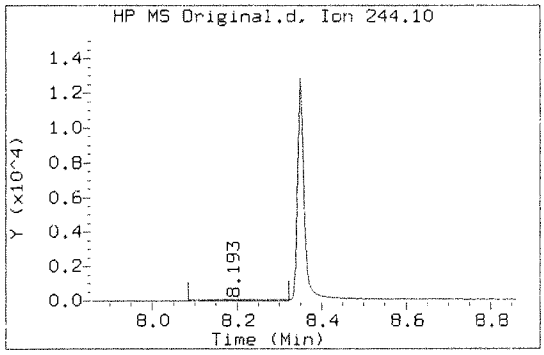
AFTER
MASS 54
AREA 980
HEIGHT 301
03-Jun-2024 10:40



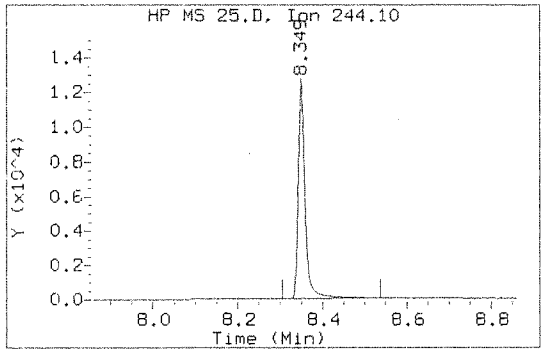
4-Terphenyl-d14 (1718-51-0)

Reason Code:

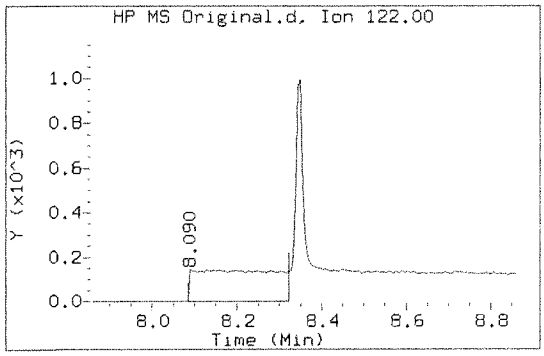
BEFORE
MASS 244.1
AREA 1225
HEIGHT 90
31-May-2024 20:57
ALSHS Server



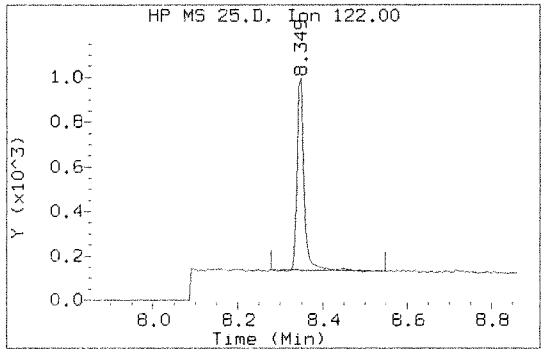
AFTER
MASS 244.1
AREA 13878
HEIGHT 12762
03-Jun-2024 10:40



BEFORE
MASS 122
AREA 1931
HEIGHT 144
31-May-2024 20:57
ALSHS Server



AFTER
MASS 122
AREA 990
HEIGHT 860
03-Jun-2024 10:40



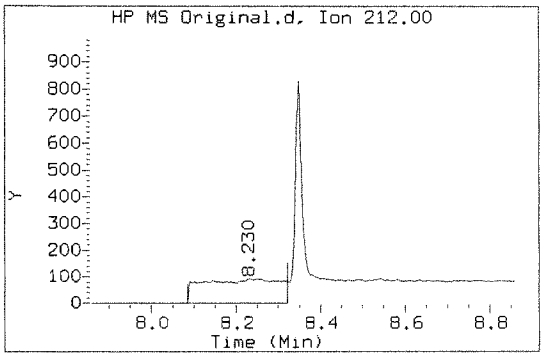
Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\25.D
Inj Date : 31-MAY-2024 20:43
InstruID : SV6.i
LabSampID : HS24051669-02

4-Terphenyl-d14 (1718-51-0)

Reason Code:

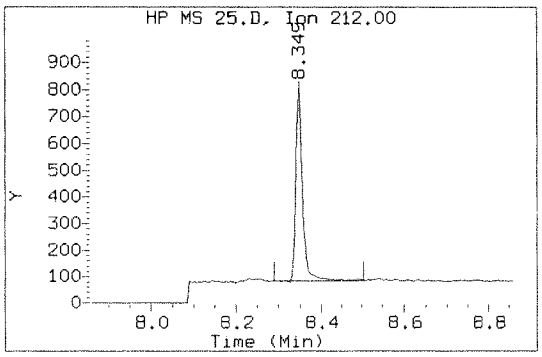
BEFORE

MASS
212
AREA
1181
HEIGHT
93
31-May-2024
20:57
ALSHS
Server



AFTER

MASS
212
AREA
799
HEIGHT
745
03-Jun-2024
10:40

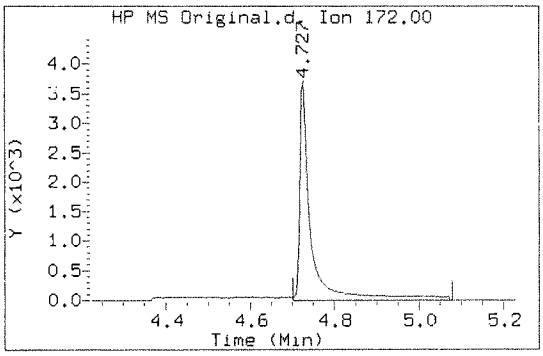


2-Fluorobiphenyl (321-60-8)

Reason Code:

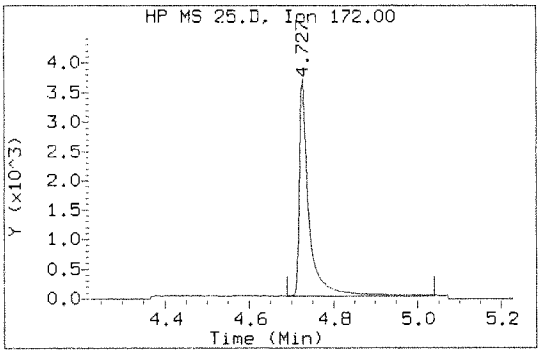
BEFORE

MASS
172
AREA
6917
HEIGHT
3722
31-May-2024
20:57
ALSHS
Server



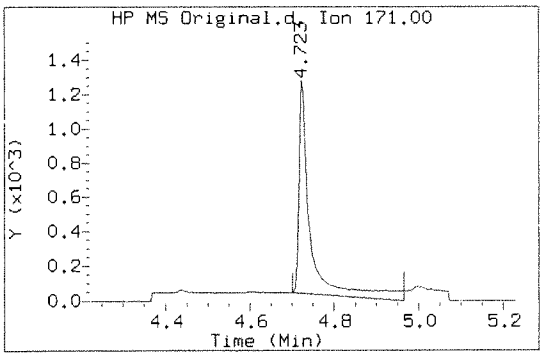
AFTER

MASS
172
AREA
5914
HEIGHT
3679
03-Jun-2024
10:40



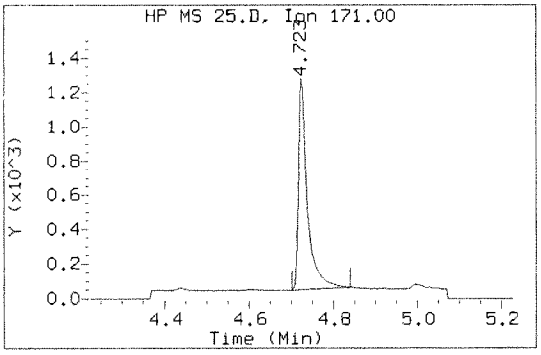
BEFORE

MASS
171
AREA
2319
HEIGHT
1236
31-May-2024
20:57
ALSHS
Server



AFTER

MASS
171
AREA
1774
HEIGHT
1229
03-Jun-2024
10:40



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240531.b\26.D
Lab Smp Id: HS24051669-03
Inj Date : 31-MAY-2024 21:00
Operator : LG Inst ID: SV6.i
Smp Info : HS24051669-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240531.b\DXSIM.m
Meth Date : 21-Jun-2024 13:04 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

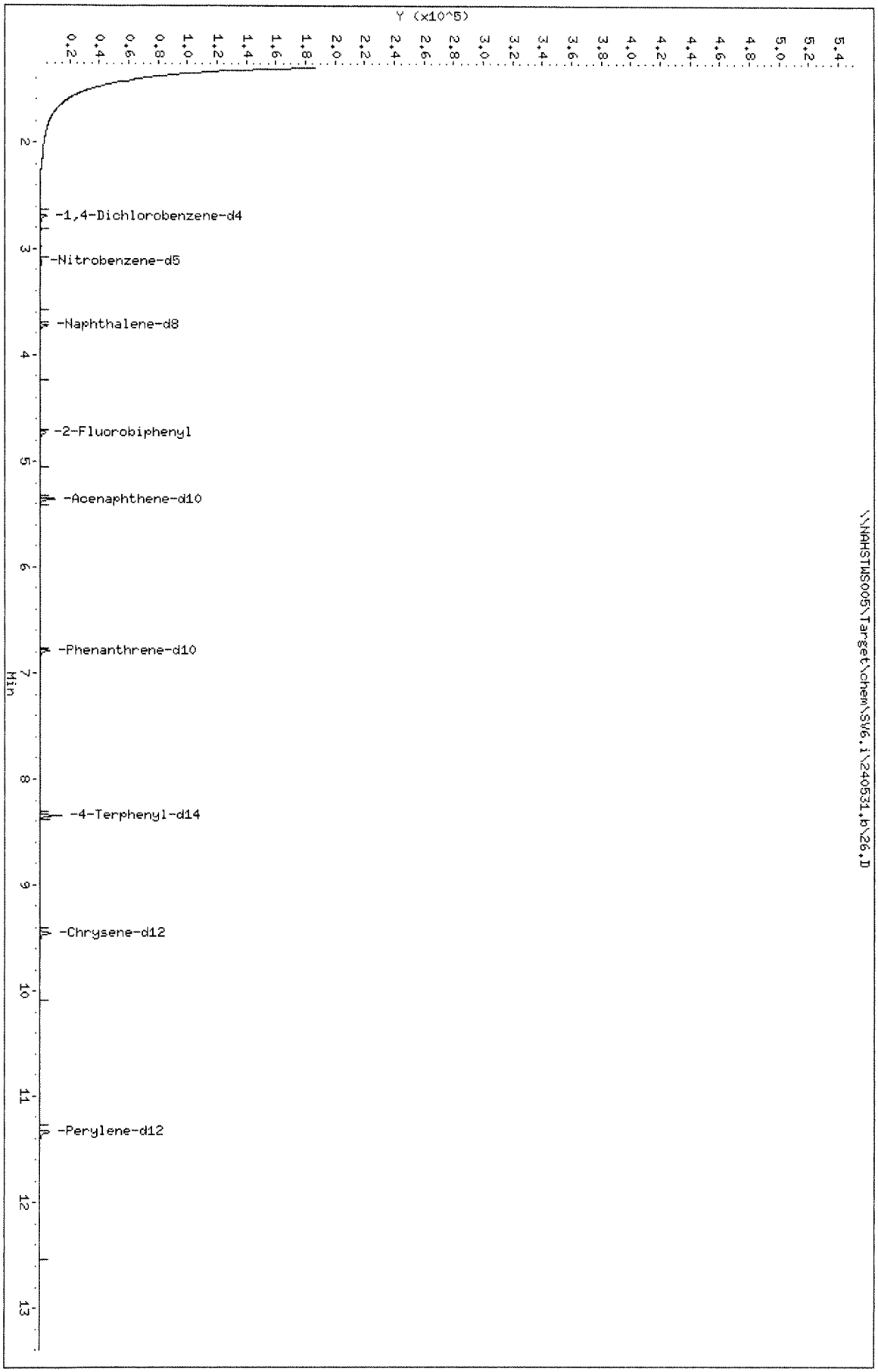
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.690	2.684	(1.000)	2571	0.10000		(aM)
* 45 Naphthalene-d8	136	3.727	3.727	(1.000)	8429	0.10000		(M)
$ 33 Nitrobenzene-d5	82	3.119	3.135	(0.837)	1592	0.06291	0.06291	(M)
* 86 Acenaphthene-d10	164	5.357	5.356	(1.000)	5248	0.10000		
$ 69 2-Fluorobiphenyl	172	4.726	4.726	(0.882)	5158	0.06430	0.06430	(M)
* 126 Phenanthrene-d10	188	6.784	6.789	(1.000)	10588	0.10000		
* 182 Chrysene-d12	240	9.451	9.462	(1.000)	9292	0.10000		(M)
$ 158 4-Terphenyl-d14	244	8.348	8.359	(0.907)	14961	0.07904	0.07904	(M)
* 198 Perylene-d12	264	11.339	11.344	(1.000)	9828	0.10000		
1 1,4-Dioxane	58	1.249	1.267	(0.464)	128	0.02324	0.02324	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\26.D
Date : 31-MAY-2024 21:00
Client ID:
Sample Info: HS24051669-03
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

Data File: \\NAHSTWS005\Target\chem\SV6.i\240531.b\26.D

Date : 31-MAY-2024 21:00

Client ID:

Instrument: SV6.i

Sample Info: HS24051669-03

Purge Volume: 1000.0

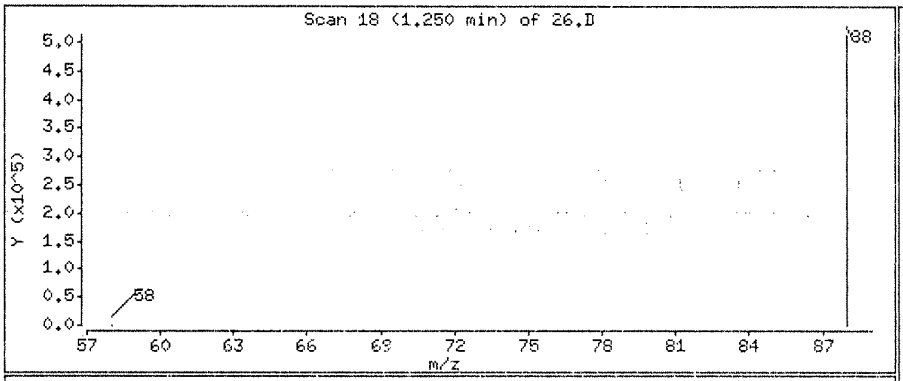
Operator: LG

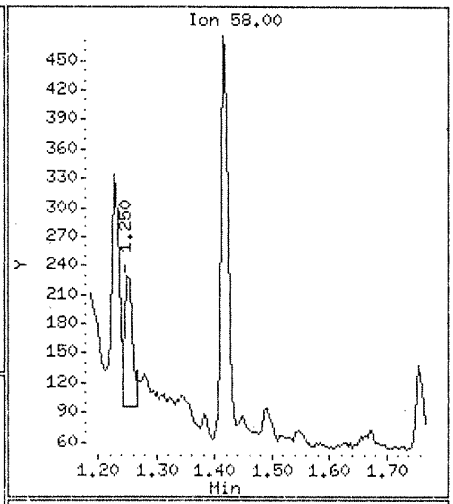
Column phase: RTX-5SIL MS

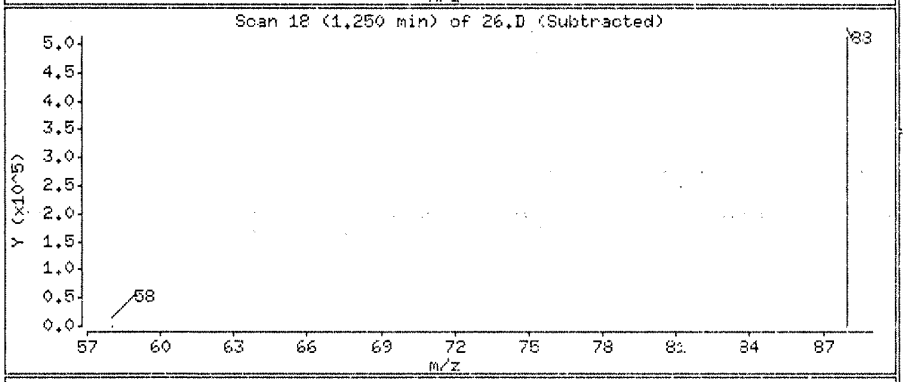
Column diameter: 0.28

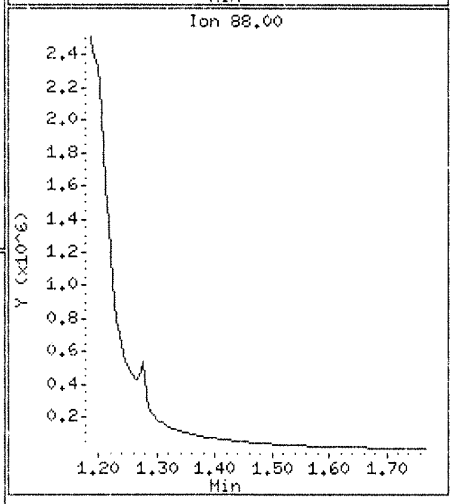
1 1,4-Dioxane

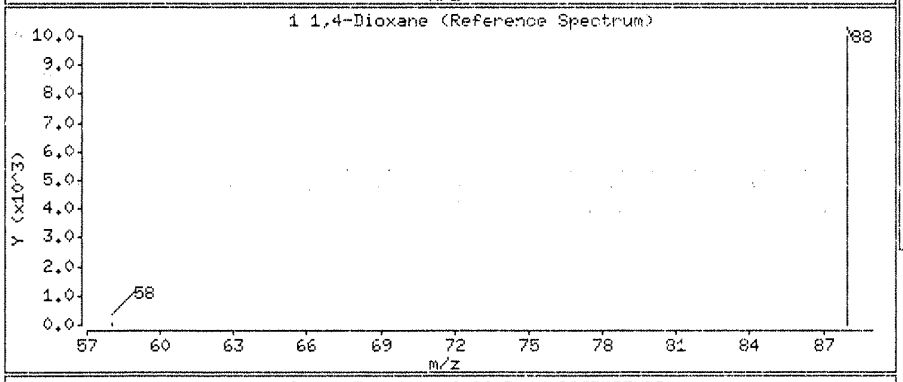
Concentration: 0.02324 ug/L

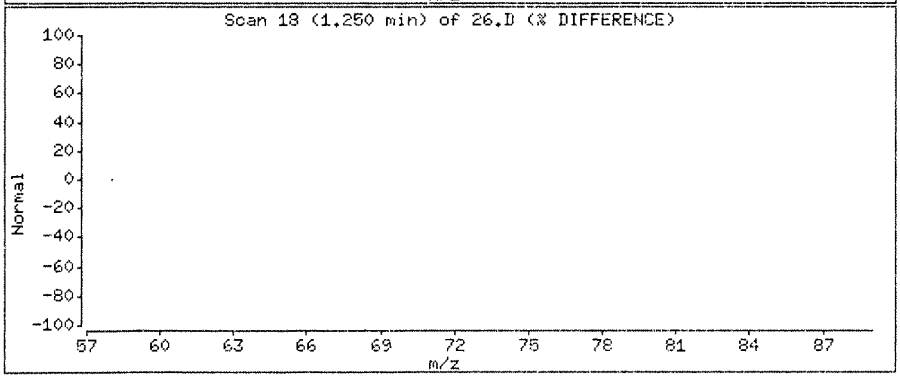










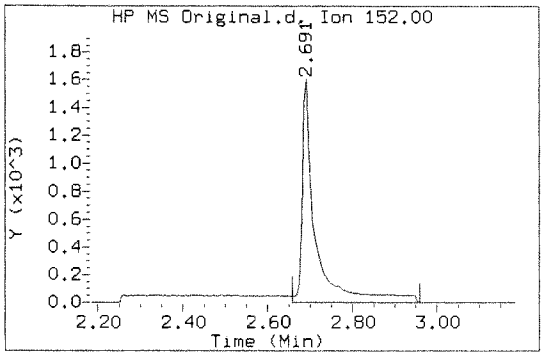


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\26.D
Inj Date : 31-MAY-2024 21:00
InstruID : SV6.i
LabSampID : HS24051669-03

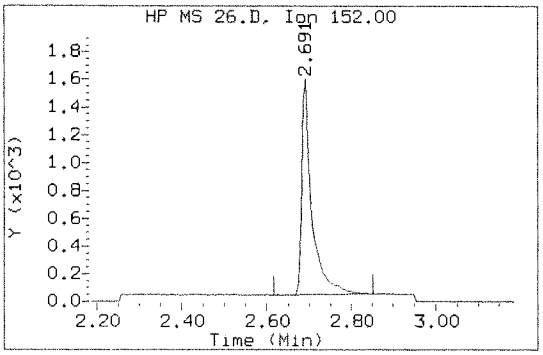
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

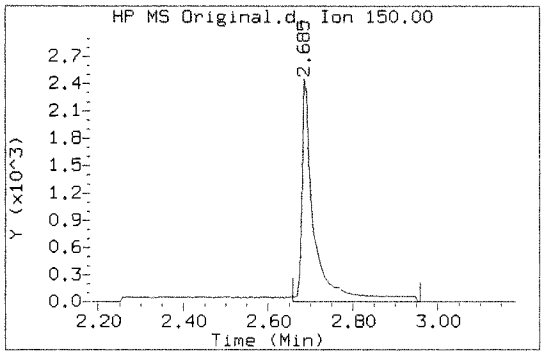
BEFORE
MASS 152
AREA 3514
HEIGHT 1606
31-May-2024 21:12
ALSHS Server



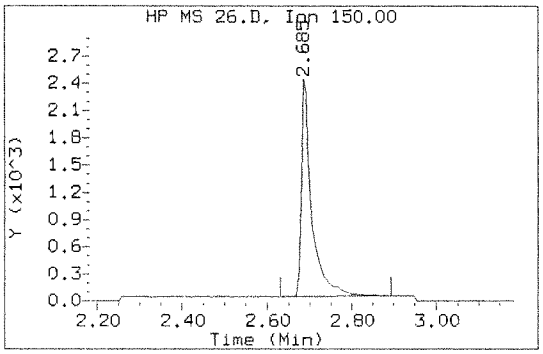
AFTER
MASS 152
AREA 2571
HEIGHT 1555
03-Jun-2024 11:24



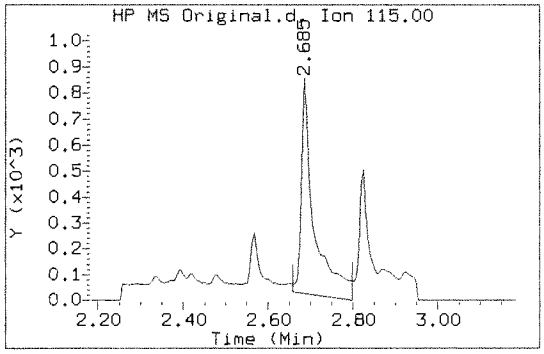
BEFORE
MASS 150
AREA 5006
HEIGHT 2451
31-May-2024 21:12
ALSHS Server



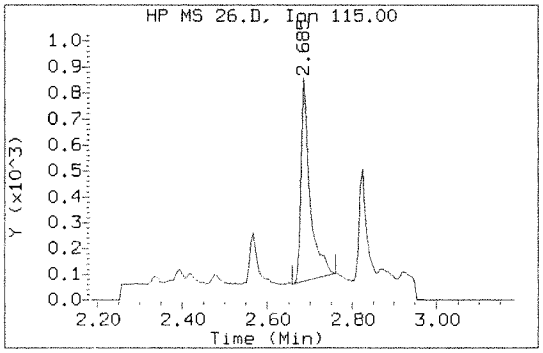
AFTER
MASS 150
AREA 4059
HEIGHT 2401
03-Jun-2024 11:24



BEFORE
MASS 115
AREA 1737
HEIGHT 830
31-May-2024 21:12
ALSHS Server



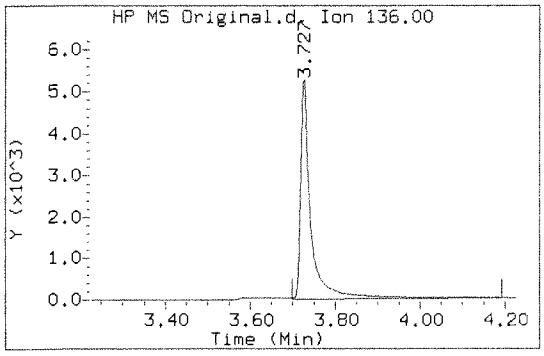
AFTER
MASS 115
AREA 1150
HEIGHT 783
03-Jun-2024 11:24



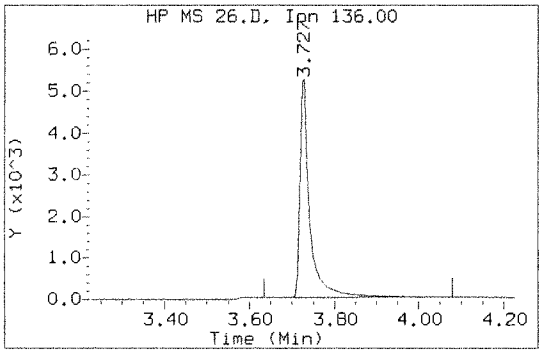
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS 136
AREA 9185
HEIGHT 5265
31-May-2024 21:12
ALSHS Server



AFTER
MASS 136
AREA 8429
HEIGHT 5228
03-Jun-2024 11:24

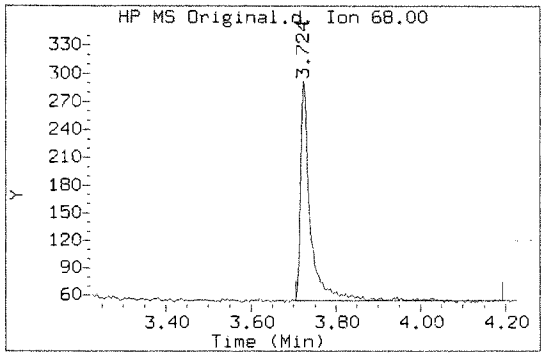


Data File : \\NAHSTWS005\Target\chem\SV6.i\240531.b\26.D
Inj Date : 31-MAY-2024 21:00
InstruID : SV6.i
LabSampID : HS24051669-03

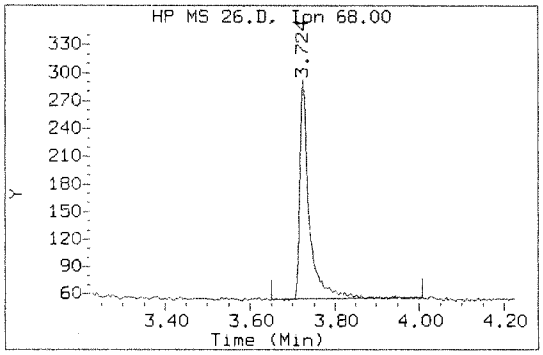
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
389
HEIGHT
238
31-May-2024
21:12
ALSHS
Server



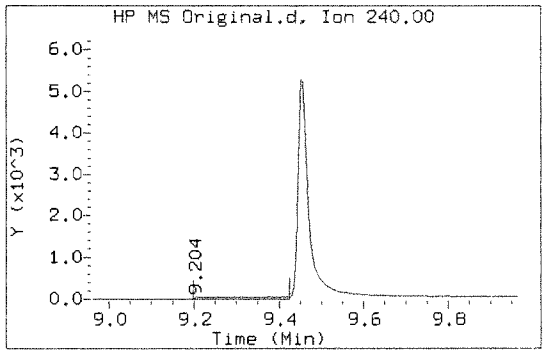
AFTER
MASS
68
AREA
367
HEIGHT
237
03-Jun-2024
11:24



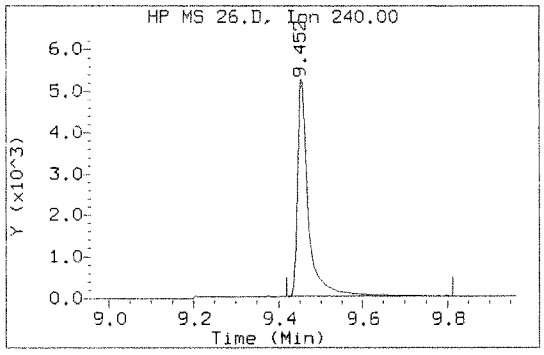
Chrysene-d12 (1719-03-5)

Reason Code:

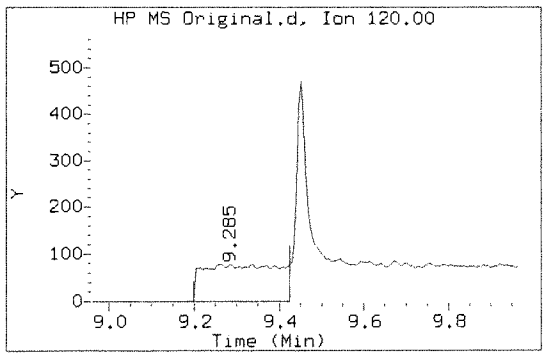
BEFORE
MASS
240
AREA
707
HEIGHT
54
31-May-2024
21:12
ALSHS
Server



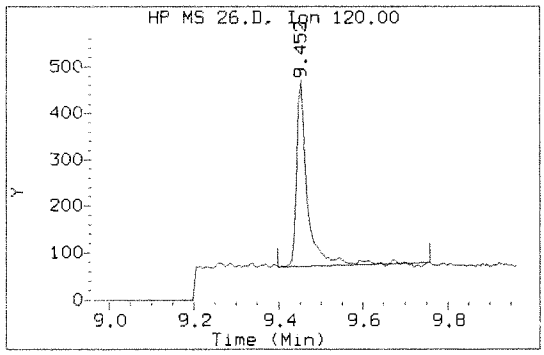
AFTER
MASS
240
AREA
9292
HEIGHT
5231
03-Jun-2024
11:24



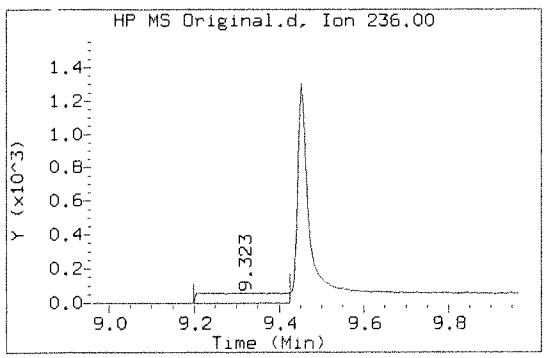
BEFORE
MASS
120
AREA
977
HEIGHT
78
31-May-2024
21:12
ALSHS
Server



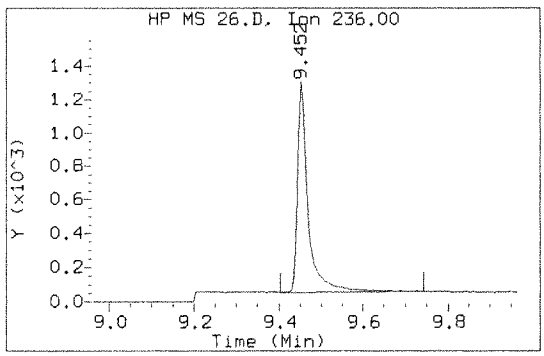
AFTER
MASS
120
AREA
681
HEIGHT
399
03-Jun-2024
11:24



BEFORE
MASS
236
AREA
757
HEIGHT
58
31-May-2024
21:12
ALSHS
Server



AFTER
MASS
236
AREA
2158
HEIGHT
1253
03-Jun-2024
11:24

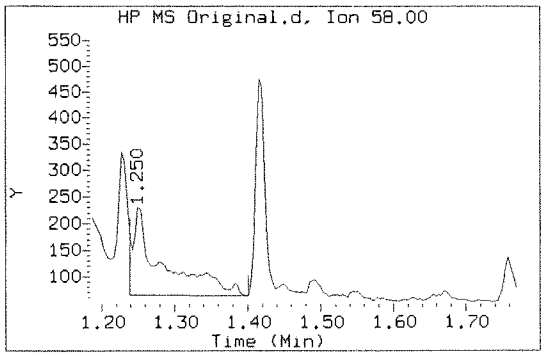


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Inj Date : 31-MAY-2024 21:00
InstruID : SV6.i
LabSampID : HS24051669-03

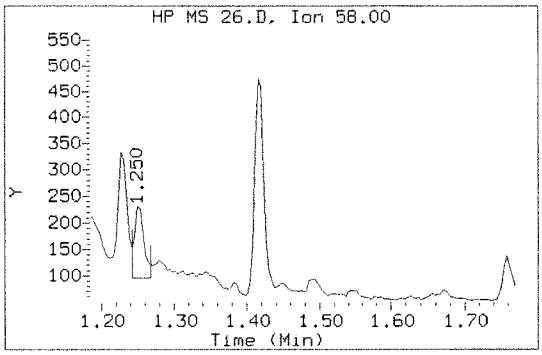
1,4-Dioxane ()

Reason Code:

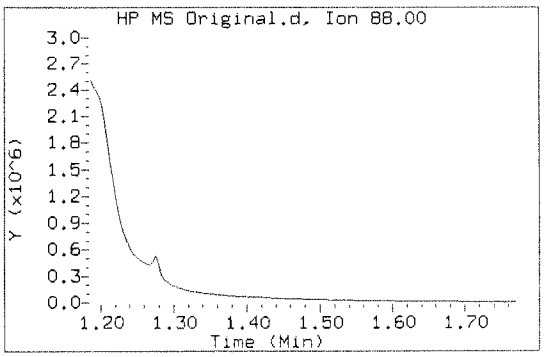
BEFORE
MASS
58
AREA
473
HEIGHT
165
31-May-2024
21:12
ALSHS
Server



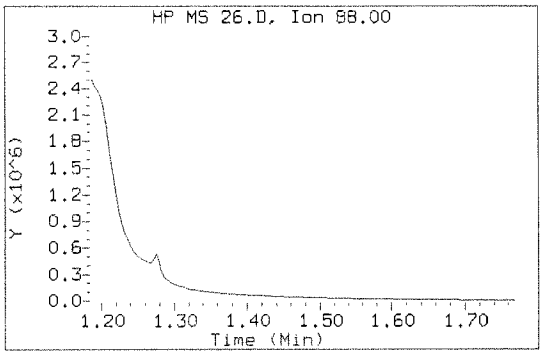
AFTER
MASS
58
AREA
128
HEIGHT
134
03-Jun-2024
11:24



BEFORE
MASS
88
AREA
0
HEIGHT
0
31-May-2024
21:12
ALSHS
Server



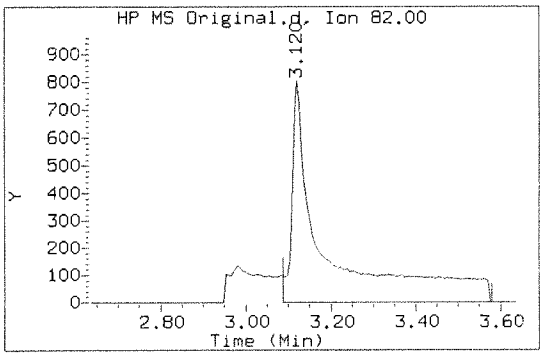
AFTER
MASS
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AREA
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HEIGHT
0
03-Jun-2024
11:24



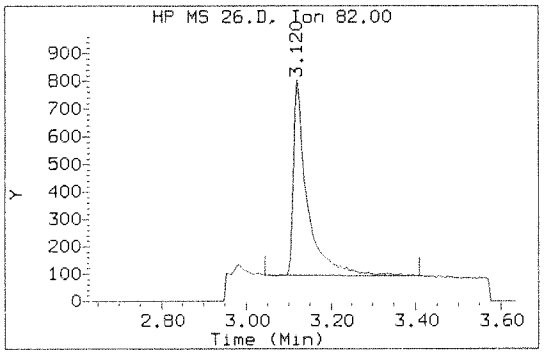
Nitrobenzene-d5 (4165-60-0)

Reason Code:

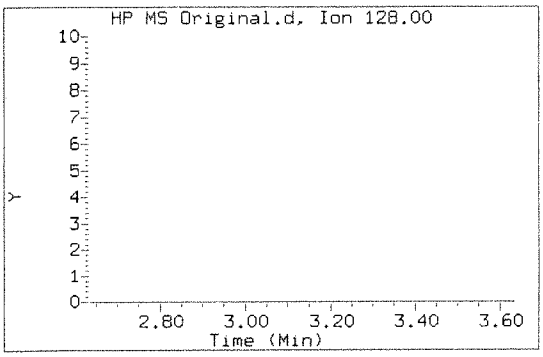
BEFORE
MASS
82
AREA
4287
HEIGHT
805
31-May-2024
21:12
ALSHS
Server



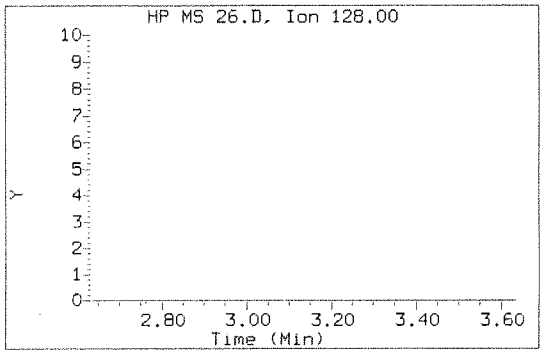
AFTER
MASS
82
AREA
1592
HEIGHT
709
03-Jun-2024
11:24



BEFORE
MASS
128
AREA
0
HEIGHT
0
31-May-2024
21:12
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
03-Jun-2024
11:24

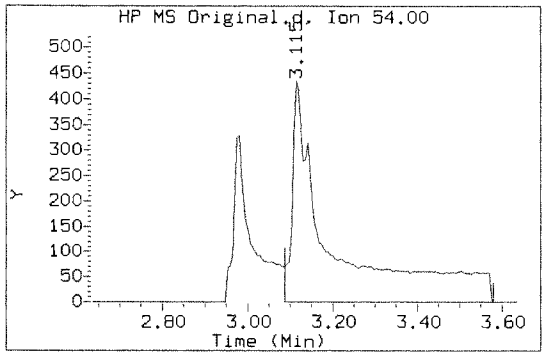


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Inj Date : 31-MAY-2024 21:00
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LabSampID : HS24051669-03

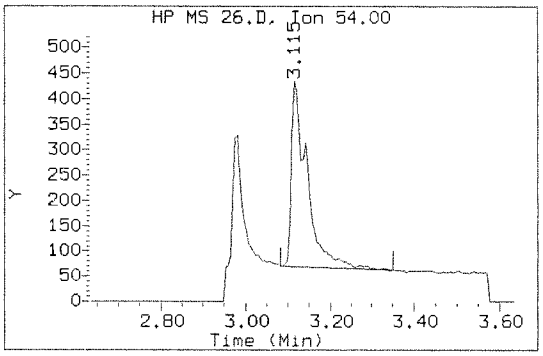
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
2785
HEIGHT
435
31-May-2024
21:12
ALSHS
Server



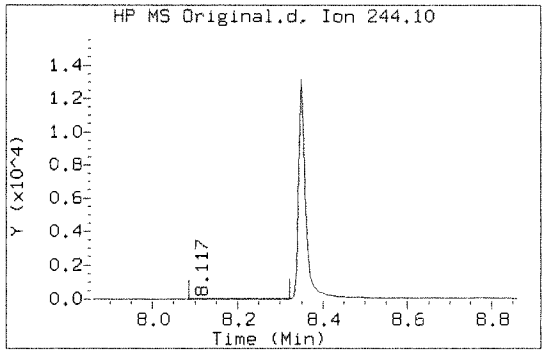
AFTER
MASS
54
AREA
939
HEIGHT
364
03-Jun-2024
11:24



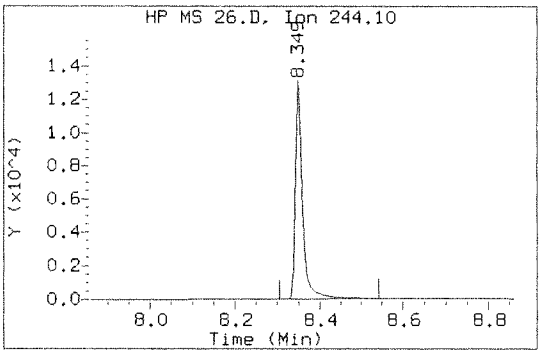
4-Terphenyl-d14 (1718-51-0)

Reason Code:

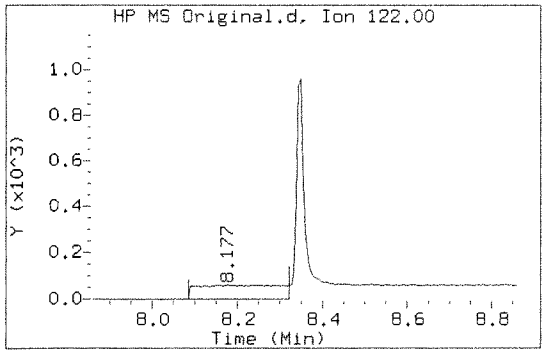
BEFORE
MASS
244.1
AREA
702
HEIGHT
51
31-May-2024
21:12
ALSHS
Server



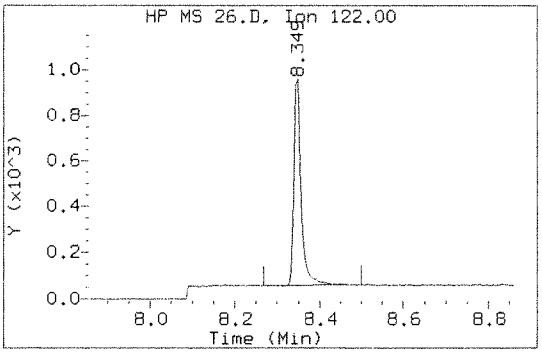
AFTER
MASS
244.1
AREA
14961
HEIGHT
13119
03-Jun-2024
11:24



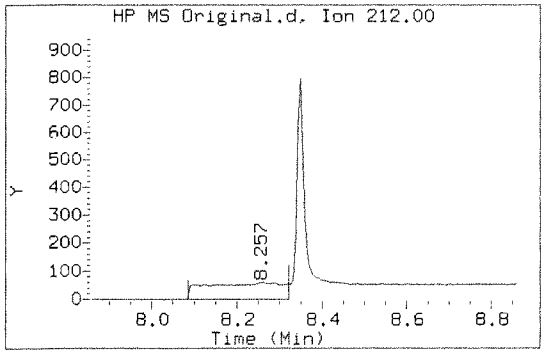
BEFORE
MASS
122
AREA
805
HEIGHT
60
31-May-2024
21:12
ALSHS
Server



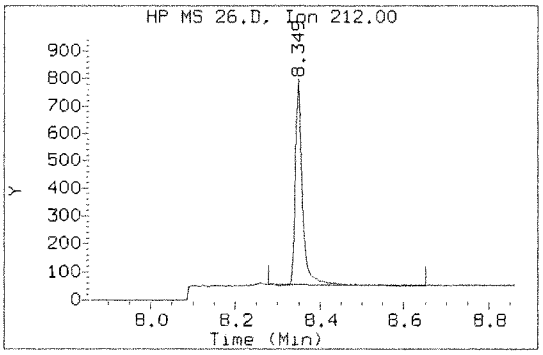
AFTER
MASS
122
AREA
1076
HEIGHT
901
03-Jun-2024
11:24



BEFORE
MASS
212
AREA
738
HEIGHT
59
31-May-2024
21:12
ALSHS
Server



AFTER
MASS
212
AREA
857
HEIGHT
743
03-Jun-2024
11:24

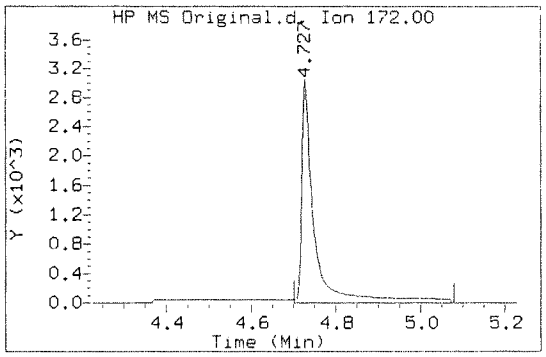


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Inj Date : 31-MAY-2024 21:00
InstruID : SV6.i
LabSampID : HS24051669-03

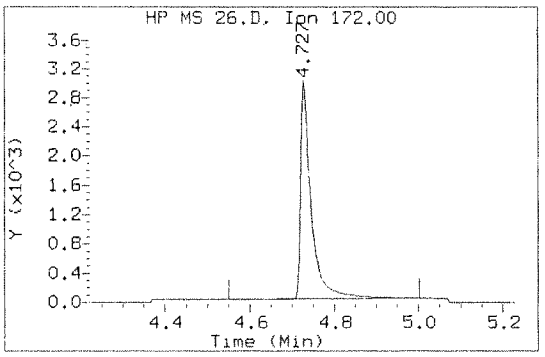
2-Fluorobiphenyl (321-60-8)

Reason Code:

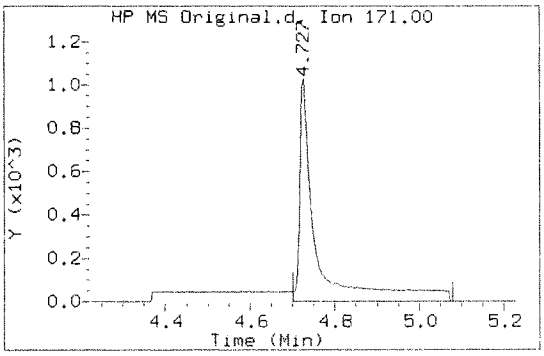
BEFORE
MASS
172
AREA
6449
HEIGHT
3050
31-May-2024
21:12
ALSHS
Server



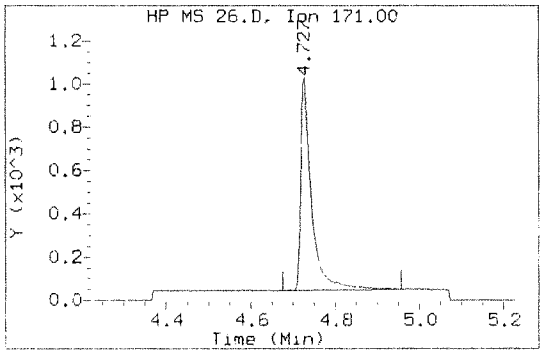
AFTER
MASS
172
AREA
5158
HEIGHT
2998
03-Jun-2024
11:24



BEFORE
MASS
171
AREA
2846
HEIGHT
1028
31-May-2024
21:12
ALSHS
Server



AFTER
MASS
171
AREA
1731
HEIGHT
981
03-Jun-2024
11:24



HS24051277-MSVOA-SW8260

ALS WO# HS24051277

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Workorder: HS24051277

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP140_052124	Collected	Received	Matrix	Basis
HS24051277-01	05/21/24 13:00	05/22/24 10:15	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,1,1-Trichloroethane	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,1,2,2-Tetrachloroethane	ug/L	25	U	12	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,1,2-Trichloroethane	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,1-Dichloroethane	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,1-Dichloroethene	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,1-Dichloropropene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,2,3-Trichlorobenzene	ug/L	25	U	10	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,2,3-Trichloropropane	ug/L	25	U	12	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,2,4-Trichlorobenzene	ug/L	25	U	12	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,2,4-Trimethylbenzene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,2-Dibromo-3-chloropropane	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,2-Dibromoethane	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,2-Dichlorobenzene	ug/L	25	U	12	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,2-Dichloroethane	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,2-Dichloropropane	ug/L	25	U	12	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,3,5-Trimethylbenzene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,3-Dichlorobenzene	ug/L	25	U	10	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,3-Dichloropropane	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
1,4-Dichlorobenzene	ug/L	25	U	10	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
2,2-Dichloropropane	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
2-Butanone	ug/L	50	U	12	50	50	25	05/24/24 20:08	VOA9_467761	U052422.D
2-Chlorotoluene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
2-Hexanone	ug/L	50	U	25	50	50	25	05/24/24 20:08	VOA9_467761	U052422.D
4-Chlorotoluene	ug/L	25	U	10	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
4-Isopropyltoluene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
4-Methyl-2-pentanone	ug/L	50	U	18	50	50	25	05/24/24 20:08	VOA9_467761	U052422.D
Acetone	ug/L	50	U	10	50	50	25	05/24/24 20:08	VOA9_467761	U052422.D
Benzene	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Bromobenzene	ug/L	25	U	10	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Bromochloromethane	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Bromodichloromethane	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Bromoform	ug/L	25	U	10	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Workorder: HS24051277

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP140_052124	Collected	Received	Matrix	Basis
HS24051277-01	05/21/24 13:00	05/22/24 10:15	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	25	U	10	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Carbon disulfide	ug/L	50	U	15	50	50	25	05/24/24 20:08	VOA9_467761	U052422.D
Carbon tetrachloride	ug/L	25	U	12	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Chlorobenzene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Chloroethane	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Chloroform	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Chloromethane	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
cis-1,2-Dichloroethene	ug/L	1,800		5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
cis-1,3-Dichloropropene	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Dibromochloromethane	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Dibromomethane	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Dichlorodifluoromethane	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Ethylbenzene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Hexachlorobutadiene	ug/L	25	U	25	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Isopropylbenzene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
m,p-Xylene	ug/L	50	U	12	50	50	25	05/24/24 20:08	VOA9_467761	U052422.D
Methylene chloride	ug/L	50	U	10	50	50	25	05/24/24 20:08	VOA9_467761	U052422.D
Naphthalene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
n-Butylbenzene	ug/L	25	U	10	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
n-Propylbenzene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
o-Xylene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
sec-Butylbenzene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Styrene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
tert-Butylbenzene	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Tetrachloroethene	ug/L	38		7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Toluene	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
trans-1,2-Dichloroethene	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
trans-1,3-Dichloropropene	ug/L	25	U	5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Trichloroethene	ug/L	2,800		5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Trichlorofluoromethane	ug/L	25	U	7.5	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D
Vinyl chloride	ug/L	72		5.0	25	25	25	05/24/24 20:08	VOA9_467761	U052422.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	HS24051277	

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24051277-02	05/21/24 00:00	05/22/24 10:15	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/24/24 16:27	VOA9_467761	U052412.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/24/24 16:27	VOA9_467761	U052412.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.

Project: Groundwater Treatment Plant Quarterly Influent Samples

Workorder: HS24051277

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24051277-02	05/21/24 00:00	05/22/24 10:15	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Trichlorofluoromethane	ug/L	2.9		0.30	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/24/24 16:27	VOA9_467761	U052412.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Workorder: HS24051277

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-467761

LH18/24-SP140_052124

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051277-01	Water	05/24/24 20:08	%REC	25
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052422.D	1400	1250	114		81-118
4-Bromofluorobenzene	U052422.D	1400	1250	112		85-114
Dibromofluoromethane	U052422.D	1400	1250	111		80-119
Toluene-d8	U052422.D	1400	1250	112		89-112

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24051277-02	Water	05/24/24 16:27	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052412.D	59	50	118		81-118
4-Bromofluorobenzene	U052412.D	54	50	109		85-114
Dibromofluoromethane	U052412.D	56	50	112		80-119
Toluene-d8	U052412.D	56	50	112		89-112

VBLKW-240524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240524	Aqueous	05/24/24 14:18	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052406.D	57.86	50	116		81-118
4-Bromofluorobenzene	U052406.D	55.8	50	112		85-114
Dibromofluoromethane	U052406.D	54.71	50	109		80-119
Toluene-d8	U052406.D	55.64	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Quarterly Influent Samples
Workorder: HS24051277

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-467761

VLCSDW-240524

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID: VLCSDW-240524	Aqueous	05/24/24 13:35	%REC	1
Instrument ID: VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052404.D	56.48	50	113		81-118
4-Bromofluorobenzene	U052404.D	56.91	50	114		85-114
Dibromofluoromethane	U052404.D	56.62	50	113		80-119
Toluene-d8	U052404.D	55.89	50	112		89-112

VLCSW-240524

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID: VLCSW-240524	Aqueous	05/24/24 13:13	%REC	1
Instrument ID: VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052403.D	55.24	50	110		81-118
4-Bromofluorobenzene	U052403.D	56.96	50	114		85-114
Dibromofluoromethane	U052403.D	55.22	50	110		80-119
Toluene-d8	U052403.D	55.42	50	111		89-112

VSTD050

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID: VSTD050	Aqueous	05/24/24 12:52	%REC	1
Instrument ID: VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U052402.D	55.81	50	112		80-120
4-Bromofluorobenzene	U052402.D	59.11	50	118		80-120
Dibromofluoromethane	U052402.D	56.14	50	112		80-120
Toluene-d8	U052402.D	59.33	50	119		80-120

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240524

VOA9_467761			VLCSW-240524			VLCSDW-240524					
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/24/24 Run Time 13:13			Run Date 05/24/24 Run Time 13:35					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	20	18.24	91		17.04	85		20	6.78	
1,1,1-Trichloroethane	74-131	20	18.26	91		17.69	88		20	3.15	
1,1,2,2-Tetrachloroethane	71-121	20	20.93	105		20	100		20	4.59	
1,1,2-Trichloroethane	80-119	20	20.59	103		18.81	94		20	9.06	
1,1-Dichloroethane	77-125	20	19.25	96		18.77	94		20	2.52	
1,1-Dichloroethene	71-131	20	17.06	85		16.77	84		20	1.74	
1,1-Dichloropropene	78-125	20	17.97	90		16.98	85		20	5.7	
1,2,3-Trichlorobenzene	69-129	20	18.86	94		17.33	87		20	8.43	
1,2,3-Trichloropropane	73-122	20	20.48	102		19.34	97		20	5.71	
1,2,4-Trichlorobenzene	69-130	20	18.54	93		16.92	85		20	9.09	
1,2,4-Trimethylbenzene	76-124	20	19.5	98		17.88	89		20	8.71	
1,2-Dibromo-3-chloropropane	62-128	20	19.27	96		18.13	91		20	6.08	
1,2-Dibromoethane	77-121	20	19.85	99		18.53	93		20	6.88	
1,2-Dichlorobenzene	80-119	20	20.78	104		19.41	97		20	6.83	
1,2-Dichloroethane	73-128	20	19.33	97		19.25	96		20	0.446	
1,2-Dichloropropane	78-122	20	19.45	97		18.52	93		20	4.89	
1,3,5-Trimethylbenzene	75-124	20	19.89	99		18.2	91		20	8.83	
1,3-Dichlorobenzene	80-119	20	20.55	103		18.83	94		20	8.74	
1,3-Dichloropropane	80-119	20	20.14	101		19.55	98		20	2.98	
1,4-Dichlorobenzene	79-118	20	20.53	103		19.13	96		20	7.09	
2,2-Dichloropropane	60-139	20	17.91	90		17.35	87		20	3.19	
2-Butanone	56-143	40	40.67	102		40.85	102		20	0.447	
2-Chlorotoluene	79-122	20	18.97	95		17.34	87		20	8.98	
2-Hexanone	57-139	40	37.86	95		36.32	91		20	4.15	
4-Chlorotoluene	78-122	20	19.24	96		17.7	88		20	8.35	
4-Isopropyltoluene	77-127	20	19.72	99		18.05	90		20	8.83	
4-Methyl-2-pentanone	67-130	40	38.08	95		36.88	92		20	3.21	
Acetone	39-160	40	45.14	113		45.27	113		20	0.282	
Benzene	79-120	20	19.18	96		18.45	92		20	3.86	
Bromobenzene	80-120	20	18.58	93		17.54	88		20	5.76	
Bromochloromethane	78-123	20	19.51	98		19.05	95		20	2.41	
Bromodichloromethane	79-125	20	17.55	88		16.9	84		20	3.79	
Bromoform	66-130	20	17.37	87		16.63	83		20	4.32	
Bromomethane	53-141	20	21.94	110		21.45	107		20	2.24	
Carbon disulfide	64-133	40	34.68	87		33.18	83		20	4.4	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240524

VOA9_467761			VLCSW-240524			VLCSDW-240524					
Spike Matrix Aqueous	Result Units ug/L		Run Date 05/24/24 Run Time 13:13			Run Date 05/24/24 Run Time 13:35					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	17.43	87		16.65	83		20	4.58	
Chlorobenzene	82-118	20	20.02	100		18.99	95		20	5.25	
Chloroethane	60-138	20	17.44	87		16.94	85		20	2.92	
Chloroform	79-124	20	19.25	96		18.87	94		20	2	
Chloromethane	50-139	20	18.47	92		17.9	90		20	3.14	
cis-1,2-Dichloroethene	78-123	20	17.33	87		16.98	85		20	2.02	
cis-1,3-Dichloropropene	75-124	20	18.37	92		17.89	89		20	2.67	
Dibromochloromethane	74-126	20	18.63	93		17.52	88		20	6.14	
Dibromomethane	79-123	20	18.29	91		17.64	88		20	3.62	
Dichlorodifluoromethane	32-152	20	18.7	94		17.8	89		20	4.92	
Ethylbenzene	79-121	20	18.15	91		17.25	86		20	5.08	
Hexachlorobutadiene	66-134	20	19.92	100		17.63	88		20	12.2	
Isopropylbenzene	72-131	20	19.01	95		17.92	90		20	5.89	
m,p-Xylene	80-121	40	37.73	94		36.11	90		20	4.38	
Methylene chloride	74-124	20	19.69	98		19.23	96		20	2.33	
Naphthalene	61-128	20	20.99	105		18.92	95		20	10.3	
n-Butylbenzene	75-128	20	19.16	96		17.77	89		20	7.54	
n-Propylbenzene	76-126	20	20.02	100		18.26	91		20	9.21	
o-Xylene	78-122	20	18.93	95		17.96	90		20	5.3	
sec-Butylbenzene	77-126	20	19.59	98		17.93	90		20	8.86	
Styrene	78-123	20	19.07	95		18.21	91		20	4.61	
tert-Butylbenzene	78-124	20	19.71	98		17.83	89		20	9.99	
Tetrachloroethene	74-129	20	18.98	95		17.84	89		20	6.23	
Toluene	80-121	20	18.46	92		17.54	88		20	5.12	
trans-1,2-Dichloroethene	75-124	20	17.31	87		16.63	83		20	4.03	
trans-1,3-Dichloropropene	73-127	20	18.07	90		17.46	87		20	3.42	
Trichloroethene	79-123	20	18.06	90		17.15	86		20	5.17	
Trichlorofluoromethane	65-141	20	18.07	90		17.7	88		20	2.1	
Vinyl chloride	58-137	20	17.63	88		17.4	87		20	1.3	

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	HS24051277	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240524	Aqueous	05/24/24 14:18	R467761	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240524	VLCSW-240524	LCS	05/24/24 13:13	R467761	VOA9	U052403.D
VLCSDW-240524	VLCSDW-240524	LCSD	05/24/24 13:35	R467761	VOA9	U052404.D
Trip Blank	HS24051277-02	SAMP	05/24/24 16:27	R467761	VOA9	U052412.D
LH18/24-SP140_052124	HS24051277-01	SAMP	05/24/24 20:08	R467761	VOA9	U052422.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

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Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	HS24051277	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-467761

Tune File: U052401.D — 05/24/24 5/24/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.3 (18.3)
75	30.0 - 60.0% of mass 95	46.9 (46.9)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	6.5 (6.46)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	88.8 (88.8) 1
175	5.0 - 9.0% of mass 174	7.7 (8.7) 1
176	> 95% but < 101% of mass 174	87.3 (98.3) 1
177	5.0 - 9.0% of mass 176	5.9 (6.81) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	5/24/2024	U052402	VSTD050
2	VLCSW-	LCS	5/24/2024	U052403	VLCSW-240524
3	VLCSDW-	LCSD	5/24/2024	U052404	VLCSDW-240524
4	VBLKW-	MBLK	5/24/2024	U052406	VBLKW-240524
5	HS24051277-	SAMP	5/24/2024	U052412	Trip Blank
6	HS24051277-	SAMP	5/24/2024	U052422	LH18/24-SP140_052124
7	VSTD050	CCV_EN	5/24/2024	U052429	VSTD050

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: V052201 BFB Injection Date: 05/22/24

Instrument ID: VOA9 BFB Injection Time: 2001

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	47.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	93.9
175	5.0 - 9.0% of mass 174	8.3 (8.8)1
176	95.0 - 101.0% of mass 174	92.6 (98.7)1
177	5.0 - 9.0% of mass 176	5.9 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	V052202	05/22/24	2022
02	VSTD00.5	VSTD00.5	V052203	05/22/24	2044
03	VSTD001	VSTD001	V052204	05/22/24	2105
04	VSTD002	VSTD002	V052205	05/22/24	2127
05	VSTD005	VSTD005	V052206	05/22/24	2148
06	VSTD020	VSTD020	V052207	05/22/24	2210
07	VSTD050	VSTD050	V052208	05/22/24	2231
08	VSTD100	VSTD100	V052209	05/22/24	2253
09	VSTD150	VSTD150	V052210	05/22/24	2314
10	VSTD200	VSTD200	V052211	05/22/24	2336
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: V052213 BFB Injection Date: 05/23/24

Instrument ID: VOA9 BFB Injection Time: 0019

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	82.0
175	5.0 - 9.0% of mass 174	7.3 (8.9)1
176	95.0 - 101.0% of mass 174	80.4 (98.0)1
177	5.0 - 9.0% of mass 176	5.7 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	V052214	05/23/24	0040
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Report Date : 03-Jun-2024 14:27 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052202.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052203.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052204.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052205.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052206.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052207.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052208.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052209.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052210.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052211.D

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Dichlorodifluoromethane	+++++ / 0.24949	0.31991 / 0.25524	0.21803 / 0.27526	0.29269 / 0.26172	0.25771	0.27072	AVRG		0.26675		10.68353
3 Chloromethane	+++++ / 201352	9635 / 415448	11392 / 607310	18240 / 777289	27986	92896	QUAD	-0.02121	1.04282	0.08038	0.99827
4 Propionitrile	+++++ / 125590	1689 / 247974	3786 / 419530	8325 / +++++	13197	53459	QUAD	-0.32703	21.95366	-2.57677	0.99854

Report Date : 03-Jun-2024 14:27 Page 2

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++	0.54952	0.44021	0.51521	0.42477	0.44229					
	0.40339	0.41965	0.44806	0.43222			AVRG		0.45281		10.55946
6 Bromomethane	+++++	1387	1774	3105	4737	14446					
	32231	65774	+++++	+++++			QUAD	-0.04623	7.57113	0.17672	0.99979
7 Chloroethane	+++++	0.37107	0.37081	0.38283	0.30283	0.31196					
	0.27198	0.28133	0.29331	0.28697			AVRG		0.31923		13.60761
8 Trichlorofluoromethane	+++++	0.58607	0.45068	0.56760	0.50245	0.53917					
	0.48008	0.49485	0.52582	0.50461			AVRG		0.51681		8.24237
9 Acrolein	+++++	256	475	725	1345	3650					
	9239	16522	26414	34482			QUAD	-0.06873	54.45388	29.71659	0.99750
10 Acetone	+++++	2401	2810	4226	9344	29961					
	74341	142776	195395	261791			LINR	-0.14839	0.13112		0.99618
11 1,1-Dichloroethene	+++++	0.34356	0.33850	0.38053	0.29614	0.30709					
	0.27261	0.28726	0.30795	0.29838			AVRG		0.31467		10.64232

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Isobutyl Alcohol	+++++	3376	5996	14294	23835	100941						
	249577	519730	863241	1273928			QUAD	-0.13682	20.08330	-0.83542	0.99949	
13 Acetonitrile	+++++	0.04519	0.05138	0.04988	0.03573	0.03773						
	0.03672	0.03592	0.04053	0.03858			AVRG		0.04130		14.62819	
14 Allyl Chloride	+++++	3162	5992	12724	23141	88098						
	214149	428574	707694	947838			QUAD	-0.00543	1.11989	-0.01736	0.99797	
15 Iodomethane	+++++	972	1167	1618	2870	8911						
	25516	74208	163796	+++++			QUAD	0.02633	17.48095	-12.83781	0.99676	<-
16 Acrylonitrile	+++++	887	2044	4082	6737	26132						
	61198	120448	200354	266324			QUAD	-0.02411	7.91315	-0.38320	0.99754	
17 Methylene Chloride	+++++	3393	4514	7451	12092	38922						
	83846	174302	267122	364439			QUAD	-0.03669	2.82402	-0.02375	0.99938	
18 Methyl tert-butyl ether	+++++	2576	5966	12924	21791	83654						
	203281	403076	666277	899435			QUAD	-0.00834	1.19671	-0.02313	0.99815	

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++	1.12096	0.92647	1.08898	0.83484	0.91452					
	0.86355	0.89946	0.97603	0.94626			AVRG		0.95234		10.11876
20 trans-1,2-Dichloroethene	+++++	0.43901	0.40136	0.44139	0.32935	0.33984					
	0.31139	0.31833	0.33770	0.32741			AVRG		0.36064		14.40072
21 Vinyl Acetate	+++++	1730	2690	5865	9530	40971					
	96737	197614	323159	430445			QUAD	-0.00517	4.84090	-0.11902	0.99796
22 1,1-Dichloroethane	+++++	2200	3832	8759	15610	61717					
	141547	296135	459660	632104			QUAD	-0.00792	1.65034	-0.02116	0.99944
23 Chloroprene	+++++	0.63293	0.56723	0.66506	0.51987	0.52956					
	0.48925	0.50955	0.53642	0.51122			AVRG		0.55123		10.87360
24 2-Butanone	+++++	1551	2158	5940	9381	38584					
	96203	197983	309540	411704			QUAD	0.00762	4.73426	0.07641	0.99871
25 Methacrylonitrile	+++++	666	1456	3544	4723	20676					
	54977	114272	183139	250943			QUAD	0.00584	4.28276	-0.29109	0.99895

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 2,2-Dichloropropane	+++++	0.53533	0.40245	0.52107	0.35986	0.41803					
	0.39626	0.42573	0.46242	0.44876			AVRG		0.44110		13.08689
27 cis-1,2-Dichloroethene	+++++	0.49233	0.51354	0.54177	0.38687	0.41151					
	0.37275	0.38004	0.40384	0.39210			AVRG		0.43275		14.92771
28 Chloroform	+++++	2029	3810	8888	15738	63122					
	146139	305959	474746	645327			QUAD	-0.00387	1.57488	-0.00578	0.99926
29 Bromochloromethane	+++++	572	1171	2688	4773	18597					
	43607	90371	137705	188513			QUAD	-0.00614	5.32172	0.05265	0.99960
31 1,1,1-Trichloroethane	+++++	0.50136	0.45832	0.55767	0.45700	0.50683					
	0.48419	0.50113	0.54336	0.52554			AVRG		0.50393		6.87573
32 1,1-Dichloropropene	+++++	0.46417	0.30682	0.41934	0.31966	0.33763					
	0.31835	0.32909	0.35023	0.33263			AVRG		0.35310		14.99712
33 1,2-Dichloroethane	+++++	1661	3006	7453	12613	50147					
	116826	238700	371348	502406			QUAD	-0.00340	2.84887	0.06040	0.99919

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
34 Carbon Tetrachloride	+++++	0.32346	0.28046	0.29351	0.23724	0.27410					
	0.26725	0.28956	0.31281	0.30441			AVRG		0.28698		9.07323
37 Benzene	+++++	4963	8834	20260	35983	145783					
	340081	712365	1101756	1506050			QUAD	-0.00066	0.97098	0.00182	0.99940
38 Trichloroethene	+++++	0.32985	0.28576	0.32731	0.25768	0.26445					
	0.25220	0.25153	0.26818	0.25736			AVRG		0.27715		11.16414
39 Bromodichloromethane	+++++	0.29184	0.29636	0.35766	0.24736	0.28752					
	0.29051	0.31021	0.33333	0.32511			AVRG		0.30443		10.44553
40 Methyl Methacrylate	+++++	284	1155	2174	3018	11958					
	29014	61390	109195	141715			QUAD	0.00210	7.97011	-1.87075	0.99470
41 2-Chloroethylvinyl ether	+++++	481	1242	2608	5466	25169					
	68317	152634	262521	365558			QUAD	0.05703	9.50563	-1.59915	0.99787
42 1,2-Dichloropropane	+++++	1434	2470	5897	9626	39815					
	92414	192490	299364	409712			QUAD	-0.00292	3.60409	-0.00525	0.99937

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
43 2-Nitropropane	+++++	138	621	954	1500	6840					
	17807	39659	73483	+++++			QUAD	-0.01174	15.03490	-16.93857	0.99980
44 Dibromomethane	+++++	0.17957	0.19713	0.22026	0.15910	0.16438					
	0.15702	0.15441	0.16332	0.15652			AVRG		0.17241		13.11348
45 4-Methyl-2-Pentanone	+++++	0.38464	0.36698	0.41042	0.28516	0.32110					
	0.31831	0.32250	0.35623	0.33873			AVRG		0.34490		11.16857
46 cis-1,3-Dichloropropene	+++++	0.32985	0.29386	0.37770	0.26241	0.33254					
	0.35355	0.38241	0.41975	0.40813			AVRG		0.35113		14.79718
49 Ethyl Methacrylate	+++++	0.36176	0.40104	0.43882	0.30360	0.33361					
	0.34389	0.34593	0.40333	0.38777			AVRG		0.36886		11.41267
50 Toluene	+++++	1.57761	1.26054	1.56456	1.13423	1.22157					
	1.14725	1.13754	1.18523	1.14413			AVRG		1.26363		14.19878
51 trans-1,3-Dichloropropene	+++++	806	1359	3854	7333	36762					
	97757	223156	365940	509892			QUAD	0.02981	3.24540	-0.28591	0.99858

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
52 2-Hexanone	+++++	0.28685	0.23695	0.26588	0.18799	0.20353					
	0.20910	0.21734	0.24045	0.23053			AVRG		0.23096		13.46066
53 1,1,2-Trichloroethane	+++++	940	1635	4383	7348	29346					
	66596	137987	214887	291834			QUAD	-0.00722	4.52639	0.11264	0.99957
54 1,3-Dichloropropane	+++++	1916	3587	8637	14915	61013					
	144932	297425	469335	637919			QUAD	-0.00321	2.10442	0.00360	0.99948
55 Dibromochloromethane	+++++	0.21022	0.22260	0.25481	0.18328	0.23404					
	0.25382	0.26998	0.29034	0.28637			AVRG		0.24505		14.57533
56 Tetrachloroethene	+++++	0.28246	0.21871	0.28617	0.22156	0.23855					
	0.22270	0.22045	0.23019	0.22317			AVRG		0.23822		11.26635
57 1,2-Dibromoethane	+++++	0.27270	0.26832	0.34503	0.22709	0.25776					
	0.25593	0.25238	0.26870	0.25887			AVRG		0.26742		11.97519
58 1-Chlorohexane	+++++	3782	4226	6784	10145	31204					
	71175	154985	252903	347980			QUAD	-0.02842	4.75748	-0.55426	0.99850

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59 Chlorobenzene	+++++	3466	6324	13797	25267	97577						
	224627	465190	727850	999180			QUAD	-0.00922	1.36483	-0.00410	0.99968	
60 1,1,1,2-Tetrachloroethane	+++++	0.26391	0.24984	0.31351	0.21621	0.24835						
	0.25158	0.25808	0.27421	0.27204			AVRG		0.26086		10.00566	
61 Ethylbenzene	+++++	0.47803	0.41310	0.48071	0.36383	0.38317						
	0.37172	0.37212	0.39654	0.38613			AVRG		0.40504		11.01304	
62 m,p-Xylenes	+++++	0.56232	0.47074	0.60287	0.43001	0.48826						
	0.47264	0.47003	0.49747	0.48198			AVRG		0.49737		10.60925	
63 o-Xylene	+++++	0.53986	0.49903	0.57124	0.41951	0.47299						
	0.46680	0.45910	0.48234	0.47067			AVRG		0.48684		9.26076	
64 Styrene	+++++	0.84933	0.81275	0.93273	0.72853	0.81537						
	0.80563	0.80544	0.85149	0.83101			AVRG		0.82581		6.52639	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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66 Bromoform	+++++	392	721	1952	3641	17174					
	47869	111672	191523	268349			QUAD	0.03290	5.98329	-1.32132	0.99830
67 Isopropylbenzene	+++++	1.35144	1.12825	1.37207	1.05200	1.19183					
	1.16453	1.17325	1.23519	1.19694			AVRG		1.20728		8.40688
68 1,1,2,2-Tetrachloroethane	+++++	1392	3041	6823	11307	47816					
	108865	229364	369458	495269			QUAD	-0.00218	1.48500	-0.01074	0.99885
71 1,2,3-Trichloropropane	+++++	1521	2895	5886	10722	46169					
	110579	238259	395706	536785			QUAD	0.00573	1.46634	-0.04347	0.99860
72 trans-1,4-Dichloro-2-butene	+++++	267	701	1369	2495	9783					
	23825	51909	88907	121414			QUAD	0.00609	12.61870	-4.60883	0.99820
73 n-Propylbenzene	+++++	2.84161	2.39714	2.95962	2.23475	2.56266					
	2.51462	2.53606	2.69092	2.50422			AVRG		2.58240		8.54652
74 Bromobenzene	+++++	0.70834	0.75521	0.85763	0.60176	0.61026					
	0.58527	0.58438	0.61515	0.60043			AVRG		0.65760		14.53970

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75 1,3,5-Trimethylbenzene	+++++	1.90774	1.60238	1.96049	1.47923	1.77537					
	1.76339	1.80001	1.90137	1.84979			AVRG		1.78220		8.67358
76 2-Chlorotoluene	+++++	1.90203	1.78601	2.11473	1.48464	1.57025					
	1.53078	1.53307	1.59696	1.54138			AVRG		1.67332		12.83996
77 4-Chlorotoluene	+++++	2.08435	1.99411	2.42353	1.64889	1.81623					
	1.77452	1.75859	1.85461	1.79632			AVRG		1.90568		12.23992
78 tert-Butylbenzene	+++++	1.64982	1.48468	1.77112	1.36126	1.57221					
	1.52616	1.52354	1.61709	1.56446			AVRG		1.56337		7.27939
79 1,2,4-Trimethylbenzene	+++++	2.23682	1.75964	2.03294	1.47727	1.74677					
	1.73676	1.76307	1.88067	1.82018			AVRG		1.82824		11.58365
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	2.21586	1.77251	2.30514	1.80011	2.08860					
	2.04149	2.09249	2.23163	2.14917			AVRG		2.07744		8.86714

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82 p-Isopropyltoluene	+++++	1.84930	1.55907	1.97056	1.52775	1.79936						
	1.81614	1.85756	1.97761	1.92173			AVRG		1.80879		9.01960	
83 1,3-Dichlorobenzene	+++++	2161	4451	10178	17996	73922						
	173337	357696	572945	778320			QUAD	-0.00400	0.95700	-0.00627	0.99927	
84 1,4-Dichlorobenzene	+++++	3093	4916	11601	19669	77028						
	180977	370133	591659	800109			QUAD	-0.00802	0.92021	-0.00337	0.99923	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	4426	5397	7550	10330	34867						
	89212	210396	376162	544172			QUAD	-0.00352	3.31705	-0.53641	0.99777	
87 n-Butylbenzene	+++++	3735	5689	12812	24166	109317						
	268963	572951	921709	1247444			QUAD	0.00946	0.59880	-0.00318	0.99908	
88 1,2-Dichlorobenzene	+++++	2392	4478	10650	17994	72010						
	173036	351398	559869	765245			QUAD	-0.00682	0.97537	-0.00637	0.99945	

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89 1,2-Dibromo-3-Chloropropane	+++++	132	232	632	1114	5037					
	13422	30092	53671	75288			QUAD	0.02354	11.99114	-6.09409	0.99784
90 1,2,4-Trichlorobenzene	+++++	0.88812	0.81861	0.85363	0.59312	0.67590					
	0.68936	0.71029	0.76912	0.75711			AVRG		0.75058		12.48846
91 Hexachlorobutadiene	+++++	739	961	2569	4784	20767					
	49023	104037	168921	231334			QUAD	0.00242	3.34971	-0.17963	0.99919
92 Naphthalene	+++++	1.61742	1.45548	1.75867	1.16526	1.51498					
	1.62015	1.64492	1.81179	1.74094			AVRG		1.59218		12.34726
93 1,2,3-Trichlorobenzene	+++++	0.85064	0.74045	0.83496	0.56373	0.63472					
	0.63618	0.64251	0.70603	0.68105			AVRG		0.69892		13.68024
130 Ethyl Acetate	+++++	1741	2292	6005	9900	40345					
	96737	197614	323159	430445			QUAD	-0.00187	2.42122	-0.06033	0.99797
131 Methyl Acrylate	+++++	1203	2622	6155	9474	41236					
	100487	201900	341037	453745			QUAD	-0.00013	2.37661	-0.10271	0.99726

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132 n-Butanol	+++++	0.00987	0.01138	0.01005	0.00726	0.00821					
	0.00842	0.00864	0.01075	0.01017			AVRG		0.00942		14.31547
133 Ethyl Acrylate	+++++	0.76924	0.92603	0.95137	0.80703	0.84926					
	0.85045	0.85585	0.98235	0.94254			AVRG		0.88157		8.17704
134 Cyclohexanone	+++++	937	2342	4862	8573	32764					
	91643	177267	279590	373518			QUAD	0.10245	36.64749	0.99494	0.99907
135 1,4-Dioxane	280	374	700	1210	2038	6932					
	16410	34583	58072	75607			QUAD	-0.17545	280	-61.53994	0.99658
136 n-Hexane	+++++	1310	1628	3911	8824	35519					
	81645	173931	275576	379527			QUAD	-0.00036	2.83398	-0.12287	0.99919
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	0.50437	0.44326	0.57691	0.54785	0.56555					
	0.52381	0.53115	0.58722	0.56539			AVRG		0.53839		8.27951

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146 Methyl Acetate	+++++	1546	3162	6584	11741	40129					
	89430	184062	289604	389125			QUAD	-0.01716	2.60873	-0.01303	0.99880
147 Methylcyclohexane	+++++	0.51551	0.62467	0.63840	0.54424	0.57861					
	0.58893	0.59284	0.67503	0.64406			AVRG		0.60026		8.43958
149 Isopropyl alcohol	+++++	1468	2808	6005	9227	36513					
	91636	182354	317783	+++++			QUAD	-0.61135	61.26130	-11.52686	0.99871
152 Amyl alcohol	+++++	903	1088	2287	4202	17278					
	45025	96345	179902	241673			QUAD	0.30139	135	-36.79710	0.99573
150 Allyl alcohol	+++++	1310	1628	3911	8824	35519					
	81645	173931	275576	379527			QUAD	-0.00713	56.67965	-2.45749	0.99919
151 4-Methyl-2-pentanol	+++++	0.06279	0.07283	0.08250	0.05846	0.07080					
	0.07238	0.07504	0.09124	0.08687			AVRG		0.07477		14.28360
148 Tert-butyl alcohol	+++++	1855	3418	7842	12384	47273					
	110717	224546	393893	+++++			QUAD	-0.75127	50.40812	-8.05303	0.99877

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139 Diethyl ether	+++++	778	1531	3327	6208	23422					
	56732	112971	184324	254190			QUAD	-0.01026	4.33934	-0.37300	0.99886
140 1,3-Butadiene	+++++	0.25541	0.15823	0.22064	0.18334	0.20150					
	0.17758	0.18791	0.20041	0.19295			AVRG		0.19755		14.05247
141 Cyclohexane	+++++	5290	6419	9869	16026	56651					
	125569	262264	413887	565382			QUAD	-0.02868	1.89445	-0.04688	0.99906
142 Tetrahydrofuran	+++++	763	1504	2093	3112	14728					
	31799	62998	106261	+++++			QUAD	-0.08541	17.28487	-7.80012	0.99811
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	0.74645	0.68898	0.81229	0.58004	0.68287					
	0.72599	0.74366	0.81025	0.80199			AVRG		0.73250		10.26196

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	3742	7158	16134	28630	111300						
	270843	542852	865221	1170909			QUAD	-0.00564	0.88109	-0.00485	0.99888	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	+++++	836	1170	5236						
	12428	24845	38997	52739			QUAD	-0.01401	38.17088	0.15254	0.99883	

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160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	0.49821	0.51881	0.62623	0.43251	0.45200						
	0.47736	0.50676	0.61909	0.62840			AVRG		0.52882		14.47924	
163 Butyl methacrylate	+++++	1303	2905	4741	10657	43896						
	101384	184758	327444	474934			QUAD	-0.02643	1.91756	-0.14507	0.99781	
164 Dicyclopentadiene	+++++	6100	10054	19537	39000	147876						
	365706	734991	1228197	1661176			QUAD	-0.00452	0.46732	-0.00364	0.99857	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	1.77179	1.82838	1.91203	1.46436	1.60846						
	1.65970	1.59312	1.74363	1.67594			AVRG		1.69527		7.96412	

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Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
167 Ethanol	+++++	322	619	1328	2037	7268					
	17713	34812	60218	+++++			QUAD	-0.81959	320	-302	0.99850
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
172 tert-Butyl formate	+++++	1386	3423	6942	12331	47935					
	98001	245253	+++++	+++++			QUAD	-0.06014	5.21847	-1.15514	0.99744
173 3,3-Dimethyl-1-butanol	+++++	2315	5298	9713	17497	74287					
	172267	356876	652708	+++++			QUAD	-0.56583	41.82438	-5.83276	0.99881
174 tert-Amyl methyl ether	+++++	1.17729	1.27763	1.29990	0.98515	1.03130					
	0.99096	0.97632	1.14344	1.07025			AVRG		1.10580		11.30629
175 tert-Butyl ethyl ether	+++++	1.25168	1.29465	1.35679	0.96614	0.99116					
	0.99568	0.97900	1.09953	1.06894			AVRG		1.11151		13.56608

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
176 tert-Amyl alcohol	+++++	1386	3423	6942	11797	47935						
	98001	245253	441582	+++++			QUAD	-0.46114	50.22947	-9.46081	0.99895	
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	205	539	1366	2190	9275						
	23006	48090	84666	+++++			QUAD	-0.06908	68.17823	-75.18094	0.99938	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	0.08772	0.06046	0.08930	0.08812	0.08961						
	0.08324	0.08464	0.09370	0.08815			AVRG		0.08499		11.37748	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	1919	3766	9669	15463	63254						
	146447	324241	545320	769469			QUAD	-0.00062	2.07532	-0.14579	0.99907	
188 Isopropyl acetate	+++++	3832	6126	14294	23835	101323						
	246529	520021	858493	1268452			QUAD	-0.00514	1.44921	-0.08245	0.99961	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
189 n-Butyl acetate	+++++	0.55808	0.53632	0.61623	0.41527	0.46600						
	0.46274	0.48837	0.55614	0.54053			AVRG		0.51552		12.01421	
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++	+++++	0.07852	0.08180	0.05955	0.06715						
	0.06362	0.05949	0.06480	0.06424			AVRG		0.06740		12.36397	<-
195 Methyl Amyl Ketone	+++++	0.55646	0.66829	0.74954	0.54128	0.56810						
	0.59875	0.59085	0.68928	0.67988			AVRG		0.62693		11.45992	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
196 2-Methylpentane	#####	#####	#####	#####	#####	#####						
	#####	#####	#####	#####			AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	#####	#####	#####	#####	#####	#####						
	#####	#####	#####	#####			AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	#####	#####	#####	#####	#####	#####						
	#####	#####	#####	#####			AVRG		0.000e+000		0.000e+000	
199 1-Hexene	#####	#####	#####	#####	#####	#####						
	#####	#####	#####	#####			AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	#####	343	751	1761	3121	15182						
	47587	138053	293895	#####			QUAD	0.04294	6.02127	-3.06230	0.99729	
201 1-Butene(1)	#####	#####	#####	#####	#####	#####						
	#####	#####	#####	#####			AVRG		0.000e+000		0.000e+000	
(2)	#####	#####	#####	#####	#####	#####						
	#####	#####	#####	#####			AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	b	m1	m2	%RSD or R^2
202 Isobutylene	+++++	164	367	1170	3060	11735					
	28123	59172	97888	133462			QUAD	0.00758	8.28189	-1.52047	0.99837
203 2-Ethylhexyl Acrylate	+++++	680	1428	3034	4851	25358					
	82852	192225	349547	+++++			QUAD	0.02159	2.16954	-0.34376	0.99934
M 94 1,2-Dichloroethylene (total)	+++++	0.46567	0.45745	0.49158	0.35811	0.37568					
	0.34207	0.34919	0.37077	0.35976			AVRG		0.39670		14.55216
M 95 Xylenes (total)	+++++	0.49463	0.43603	0.53054	0.38169	0.43607					
	0.42260	0.42338	0.45371	0.43613			AVRG		0.44609		9.72663
$ 30 Dibromofluoromethane	+++++	1204	2174	4978	8395	33492					
	76667	155928	247969	343699			QUAD	-0.01409	3.16111	-0.16075	0.99927
$ 35 1,2-Dichloroethane-d4	+++++	1807	3401	6849	11168	41399					
	92816	186459	296828	404807			QUAD	-0.02164	2.60719	-0.06848	0.99896
$ 48 Toluene-d8	+++++	5599	8273	17737	32218	123251					
	283574	582672	927386	1284061			QUAD	-0.01370	1.10652	-0.01390	0.99961

Report Date : 03-Jun-2024 14:27 Page 25

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
$ 69 4-Bromofluorobenzene	+++++ 106600	2573 213520	3587 343103	7375 472873	12392	46114	QUAD	-0.02034	3.00232	-0.09875	0.99942

Report Date : 03-Jun-2024 14:27 Page 26

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2024 20:22
End Cal Date : 22-MAY-2024 23:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\8260CC.m
Last Edit : 28-May-2024 11:48 VOA9.i

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

RunID V052214.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	V052214.D	**Inj Date**	23-MAY-2024 0040

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	46.9	93.8	80-120	
1,1,1-Trichloroethane	50.0	45.5	91.0	80-120	
1,1,2,2-Tetrachloroethane	50.0	48.8	97.7	80-120	
Freon TF	50.0	46.5	93.0	80-120	
Methyl acetate	50.0	48.0	96.0	80-120	
Cyclohexane	50.0	46.5	93.1	80-120	
Methylcyclohexane	50.0	47.1	94.2	80-120	
Carbon Disulfide	100	88.7	88.7	80-120	
2-Hexanone	100	87.1	87.2	80-120	
1,1,2-Trichloroethane	50.0	47.5	94.9	80-120	
1,1-Dichloroethane	50.0	46.6	93.3	80-120	
1,1-Dichloroethene	50.0	42.9	85.8	80-120	
1,1-Dichloropropene	50.0	43.8	87.6	80-120	
1,2,3-Trichlorobenzene	50.0	44.5	89.0	80-120	
1,2,3-Trichloropropane	50.0	48.0	96.0	80-120	
1,2,4-Trichlorobenzene	50.0	45.6	91.2	80-120	
1,2,4-Trimethylbenzene	50.0	47.0	93.9	80-120	
1,2-Dibromo-3-Chloropropane	50.0	47.1	94.1	80-120	
1,2-Dibromoethane	50.0	46.3	92.6	80-120	
Acrolein	100	89.0	89.0	80-120	
Acrylonitrile	100	96.6	96.6	80-120	
1,2-Dichlorobenzene	50.0	48.3	96.7	80-120	
1,2-Dichloroethane	50.0	46.3	92.7	80-120	
1,2-Dichloropropane	50.0	45.8	91.7	80-120	
1,3,5-Trimethylbenzene	50.0	48.6	97.2	80-120	
1,3-Dichlorobenzene	50.0	48.0	96.1	80-120	
1,3-Dichloropropane	50.0	48.3	96.5	80-120	
1,4-Dichlorobenzene	50.0	47.6	95.2	80-120	
1-Chlorohexane	50.0	45.3	90.5	80-120	
2,2-Dichloropropane	50.0	42.2	84.3	80-120	
2-Butanone	100	89.9	89.9	80-120	
2-Chloroethylvinyl ether	100	92.8	92.8	80-120	
2-Chlorotoluene	50.0	44.5	89.0	80-120	
4-Chlorotoluene	50.0	45.4	90.7	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

RunID V052214.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID V052214.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 23-MAY-2024 0040

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	49.0	98.0	80-120	
4-Methyl-2-Pentanone	100	90.3	90.3	80-120	
Acetone	100	89.2	89.2	80-120	
Acetonitrile	500	431	86.2	80-120	
Allyl Chloride	50.0	47.6	95.1	80-120	
Benzene	50.0	46.8	93.6	80-120	
Bromobenzene	50.0	43.5	87.0	80-120	
Bromochloromethane	50.0	48.0	96.1	80-120	
Bromodichloromethane	50.0	46.2	92.4	80-120	
Bromoform	50.0	46.7	93.4	80-120	
Bromomethane	50.0	59.9	120	80-120	
Carbon Tetrachloride	50.0	44.4	88.8	80-120	
Chlorobenzene	50.0	47.3	94.7	80-120	
Chloroethane	50.0	41.0	82.0	80-120	
Chloroform	50.0	46.7	93.4	80-120	
Chloromethane	50.0	40.3	80.7	80-120	
Chloroprene	50.0	42.8	85.7	80-120	
cis-1,2-Dichloroethene	50.0	42.6	85.1	80-120	
cis-1,3-Dichloropropene	50.0	49.0	98.0	80-120	
Dibromochloromethane	50.0	51.1	102	80-120	
Dibromomethane	50.0	42.4	84.8	80-120	
Dichlorodifluoromethane	50.0	43.6	87.1	80-120	
Ethylbenzene	50.0	44.9	89.7	80-120	
Ethyl Methacrylate	50.0	45.4	90.8	80-120	
Iodomethane	100	137	137	80-120	*
Isobutyl Alcohol	1000	976	97.6	70-130	
Propionitrile	500	517	103	70-130	
Hexachlorobutadiene	50.0	45.8	91.6	80-120	
Isopropylbenzene	50.0	46.5	93.0	80-120	
m,p-Xylenes	100	91.6	91.6	80-120	
Methyl tert-butyl ether	50.0	49.1	98.2	80-120	
Methylene Chloride	50.0	47.1	94.3	80-120	
Methacrylonitrile	50.0	47.4	94.8	80-120	
Methyl Methacrylate	50.0	45.1	90.1	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

RunID V052214.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	V052214.D	**Inj Date**	23-MAY-2024 0040

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	46.3	92.6	80-120	
n-Propylbenzene	50.0	47.3	94.7	80-120	
Naphthalene	50.0	49.6	99.2	80-120	
o-Xylene	50.0	45.8	91.7	80-120	
sec-Butylbenzene	50.0	48.6	97.1	80-120	
Styrene	50.0	47.2	94.4	80-120	
tert-Butylbenzene	50.0	47.5	94.9	80-120	
Tetrachloroethene	50.0	43.7	87.4	80-120	
Toluene	50.0	44.1	88.3	80-120	
trans-1,2-Dichloroethene	50.0	41.7	83.4	80-120	
trans-1,3-Dichloropropene	50.0	45.9	91.8	80-120	
trans-1,4-Dichloro-2-butene	50.0	45.6	91.2	80-120	
Trichloroethene	50.0	43.7	87.4	80-120	
Trichlorofluoromethane	50.0	44.3	88.7	80-120	
Vinyl Acetate	100	95.8	95.8	80-120	
Vinyl Chloride	50.0	42.4	84.8	80-120	
Methyl Acrylate	50.0	48.5	97.1	80-120	
Ethyl Acrylate	50.0	46.1	92.2	80-120	
Butyl acrylate	50.0	45.4	90.7	80-120	
2-Ethylhexyl Acrylate	50.0	49.6	99.1	80-120	
Allyl alcohol	1000	886	88.6	80-120	
1,2-Dichloroethylene (total)	100	84.3	84.3	80-120	
Xylenes (total)	150	136	90.5	80-120	
1,4-Dioxane	1000	891	89.1	80-120	
Dibromofluoromethane	50.0	48.2	96.5	71-125	
1,2-Dichloroethane-d4	50.0	47.8	95.5	70-125	
Toluene-d8	50.0	48.9	97.9	75-125	
4-Bromofluorobenzene	50.0	49.6	99.2	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24051277

Project Groundwater Treatment Plant Quarterly Influent Samples

RunID U052402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.267	0.251	0.251	0.100	5.90	20.0	Averaged	
Chloromethane	50.0	44.8	0.827	0.100	10.3	20.0	Quadratic	
Propionitrile	500	527	0.053	0.010	-5.374	20.0	Quadratic	
Vinyl Chloride	0.453	0.392	0.392	0.100	13.4	20.0	Averaged	
Bromomethane	50.0	52.4	0.144	0.100	-4.879	20.0	Quadratic	
Chloroethane	0.319	0.265	0.265	0.100	16.8	20.0	Averaged	
Trichlorofluoromethane	0.517	0.472	0.472	0.100	8.60	20.0	Averaged	
Acrolein	100	89.9	0.017	0.010	10.1	20.0	Quadratic	
Acetone	100	103	0.145	0.100	-2.954	20.0	Linear	
1,1-Dichloroethene	0.315	0.272	0.272	0.100	13.7	20.0	Averaged	
Isobutyl Alcohol	1000	1017	0.053	0.005	-1.724	20.0	Quadratic	
Acetonitrile	0.041	0.033	0.033	0.005	19.2	20.0	Averaged	
Allyl Chloride	50.0	45.4	0.827	0.100	9.16	20.0	Quadratic	
Iodomethane	100	94.2	0.058	0.100	5.80	20.0	Quadratic	*
Acrylonitrile	100	96.3	0.125	0.050	3.75	20.0	Quadratic	
Methylene Chloride	50.0	47.8	0.353	0.100	4.33	20.0	Quadratic	
Methyl tert-butyl ether	50.0	45.5	0.780	0.100	8.91	20.0	Quadratic	
Carbon Disulfide	0.952	0.834	0.834	0.100	12.4	20.0	Averaged	
trans-1,2-Dichloroethene	0.361	0.306	0.306	0.100	15.2	20.0	Averaged	
Vinyl Acetate	100	103	0.216	0.010	-3.077	20.0	Quadratic	
1,1-Dichloroethane	50.0	46.9	0.578	0.200	6.14	20.0	Quadratic	
Chloroprene	0.551	0.482	0.482	0.100	12.6	20.0	Averaged	
2-Butanone	100	101	0.212	0.100	-1.435	20.0	Quadratic	
Methacrylonitrile	50.0	46.8	0.220	0.100	6.45	20.0	Quadratic	
2,2-Dichloropropane	0.441	0.411	0.411	0.100	6.84	20.0	Averaged	
cis-1,2-Dichloroethene	0.433	0.369	0.369	0.100	14.7	20.0	Averaged	
Chloroform	50.0	47.4	0.605	0.200	5.27	20.0	Quadratic	
Bromochloromethane	50.0	49.0	0.185	0.100	1.97	20.0	Quadratic	
30 Dibromofluoromethane	50.0	56.1	0.366	0.100	-12.273	20.0	Quadratic	
1,1,1-Trichloroethane	0.504	0.469	0.469	0.100	6.86	20.0	Averaged	
1,1-Dichloropropene	0.353	0.311	0.311	0.100	11.9	20.0	Averaged	
1,2-Dichloroethane	50.0	47.8	0.334	0.100	4.38	20.0	Quadratic	
Carbon Tetrachloride	0.287	0.263	0.263	0.100	8.38	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	55.8	0.442	0.100	-11.629	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

RunID U052402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	47.4	0.976	0.500	5.16	20.0	Quadratic	
Trichloroethene	0.277	0.243	0.243	0.200	12.3	20.0	Averaged	
Bromodichloromethane	0.304	0.283	0.283	0.200	7.04	20.0	Averaged	
Methyl Methacrylate	50.0	49.5	0.128	0.100	0.965	20.0	Quadratic	
2-Chloroethylvinyl ether	100	93.1	0.098	0.001	6.87	20.0	Quadratic	
1,2-Dichloropropane	50.0	47.5	0.265	0.100	4.91	20.0	Quadratic	
2-Nitropropane	50.0	53.3	0.079	0.000	-6.570	20.0	Quadratic	
Dibromomethane	0.172	0.154	0.154	0.100	10.7	20.0	Averaged	
4-Methyl-2-Pentanone	0.345	0.335	0.335	0.100	2.94	20.0	Averaged	
cis-1,3-Dichloropropene	0.351	0.357	0.357	0.200	-1.615	20.0	Averaged	
48 Toluene-d8	50.0	59.3	1.10	0.100	-18.654	20.0	Quadratic	
Ethyl Methacrylate	0.369	0.325	0.325	0.100	12.0	20.0	Averaged	
Toluene	1.26	1.12	1.12	0.400	11.1	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	47.7	0.292	0.100	4.54	20.0	Quadratic	
2-Hexanone	0.231	0.217	0.217	0.100	6.21	20.0	Averaged	
1,1,2-Trichloroethane	50.0	49.0	0.217	0.100	2.09	20.0	Quadratic	
1,3-Dichloropropane	50.0	48.6	0.463	0.100	2.79	20.0	Quadratic	
Dibromochloromethane	0.245	0.246	0.246	0.100	-0.485	20.0	Averaged	
Tetrachloroethene	0.238	0.217	0.217	0.200	8.98	20.0	Averaged	
1,2-Dibromoethane	0.267	0.254	0.254	0.100	4.96	20.0	Averaged	
1-Chlorohexane	50.0	47.2	0.209	0.100	5.63	20.0	Quadratic	
Chlorobenzene	50.0	48.0	0.711	0.500	4.08	20.0	Quadratic	
1,1,1,2-Tetrachloroethane	0.261	0.241	0.241	0.100	7.49	20.0	Averaged	
Ethylbenzene	0.405	0.362	0.362	0.100	10.7	20.0	Averaged	
m,p-Xylenes	0.497	0.460	0.460	0.100	7.61	20.0	Averaged	
o-Xylene	0.487	0.450	0.450	0.300	7.62	20.0	Averaged	
Styrene	0.826	0.785	0.785	0.300	4.91	20.0	Averaged	
Bromoform	50.0	45.4	0.151	0.100	9.22	20.0	Quadratic	
Isopropylbenzene	1.21	1.13	1.13	0.100	6.69	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	50.6	0.686	0.300	-1.190	20.0	Quadratic	
69 4-Bromofluorobenzene	50.0	59.1	0.406	0.100	-18.222	20.0	Quadratic	
1,2,3-Trichloropropane	50.0	49.6	0.686	0.100	0.878	20.0	Quadratic	
trans-1,4-Dichloro-2-butene	50.0	48.8	0.079	0.050	2.45	20.0	Quadratic	
n-Propylbenzene	2.58	2.45	2.45	0.100	5.31	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder**

Project Groundwater Treatment Plant Quarterly Influent Samples **HS24051277**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

U052402.D

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.658	0.568	0.568	0.100	13.7	20.0	Averaged	
1,3,5-Trimethylbenzene	1.78	1.72	1.72	0.100	3.52	20.0	Averaged	
2-Chlorotoluene	1.67	1.46	1.46	0.100	12.5	20.0	Averaged	
4-Chlorotoluene	1.91	1.71	1.71	0.100	10.2	20.0	Averaged	
tert-Butylbenzene	1.56	1.47	1.47	0.100	6.18	20.0	Averaged	
1,2,4-Trimethylbenzene	1.83	1.71	1.71	0.100	6.27	20.0	Averaged	
sec-Butylbenzene	2.08	1.98	1.98	0.100	4.91	20.0	Averaged	
p-Isopropyltoluene	1.81	1.76	1.76	0.100	2.47	20.0	Averaged	
1,3-Dichlorobenzene	50.0	48.5	1.02	0.600	2.98	20.0	Quadratic	
1,4-Dichlorobenzene	50.0	48.8	1.07	0.400	2.33	20.0	Quadratic	
Benzyl Chloride	50.0	50.9	0.325	0.010	-1.832	20.0	Quadratic	
n-Butylbenzene	50.0	46.8	1.56	0.500	6.44	20.0	Quadratic	
1,2-Dichlorobenzene	50.0	48.5	1.01	0.400	3.04	20.0	Quadratic	
1,2-Dibromo-3-Chloropropane	50.0	48.0	0.081	0.050	4.08	20.0	Quadratic	
1,2,4-Trichlorobenzene	0.751	0.664	0.664	0.200	11.5	20.0	Averaged	
Hexachlorobutadiene	50.0	47.0	0.284	0.100	6.02	20.0	Quadratic	
Naphthalene	1.59	1.64	1.64	0.200	-3.255	20.0	Averaged	
1,2,3-Trichlorobenzene	0.699	0.628	0.628	0.100	10.2	20.0	Averaged	
Methyl Acetate	50.0	53.7	0.419	0.100	-7.402	20.0	Quadratic	
Freon TF	0.538	0.517	0.517	0.100	3.93	20.0	Averaged	
Cyclohexane	50.0	48.0	0.528	0.100	4.08	20.0	Quadratic	
Tetrahydrofuran	100	101	0.065	0.001	-1.375	20.0	Quadratic	
Methylcyclohexane	0.600	0.566	0.566	0.100	5.63	20.0	Averaged	
1,4-Dioxane	1000	899	0.003	0.001	10.1	20.0	Quadratic	
n-Butanol	0.009	0.009	0.009	0.005	6.57	20.0	Averaged	
n-Hexane	50.0	50.6	0.363	0.100	-1.199	20.0	Quadratic	
Diethyl ether	50.0	45.4	0.216	0.100	9.11	20.0	Quadratic	
Tert-butyl alcohol	1000	1106	0.025	0.005	-10.574	20.0	Quadratic	
Isopropyl alcohol	1000	1060	0.019	0.005	-5.993	20.0	Quadratic	
Amyl alcohol	1000	1023	0.008	0.005	-2.307	20.0	Quadratic	
Diisopropyl ether	50.0	44.4	1.02	0.100	11.1	20.0	Quadratic	
Butyl acrylate	0.529	0.460	0.460	0.100	12.9	20.0	Averaged	
n-Amyl acetate	50.0	48.8	0.488	0.100	2.34	20.0	Quadratic	
Dicyclopentadiene	50.0	44.6	1.95	0.100	10.8	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24051277

Project Groundwater Treatment Plant Quarterly Influent Samples

RunID U052402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052402A.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 1252
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	1.70	1.50	1.50	0.100	11.4	20.0	Averaged	
Ethanol	1000	1045	0.004	0.001	-4.456	20.0	Quadratic	
tert-Butyl formate	100	119	0.265	0.100	-19.217	20.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	1097	0.029	0.005	-9.746	20.0	Quadratic	
tert-Amyl methyl ether	1.11	0.951	0.951	0.005	14.0	20.0	Averaged	
tert-Butyl ethyl ether	1.11	0.906	0.906	0.100	18.5	20.0	Averaged	
tert-Amyl alcohol	1000	1177	0.027	0.005	-17.674	20.0	Quadratic	
4-Methyl-2-pentanol	0.075	0.075	0.075	0.005	-0.276	20.0	Averaged	
1,3-Butadiene	0.198	0.185	0.185	0.100	6.18	20.0	Averaged	
Epichlorohydrin	200	210	0.017	0.001	-4.875	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.397	0.337	0.337	0.200	15.0	20.0	Averaged	
95 Xylenes (total)	0.446	0.413	0.413	0.100	7.37	20.0	Averaged	
alpha-Methylstyrene	0.732	0.696	0.696	0.100	4.95	20.0	Averaged	
Ethyl Acetate	50.0	51.6	0.432	0.100	-3.167	20.0	Quadratic	
Methyl Acrylate	50.0	47.8	0.410	0.100	4.32	20.0	Quadratic	
n-Butyl acetate	0.516	0.481	0.481	0.100	6.74	20.0	Averaged	
Cyclohexanone	1000	910	0.024	0.005	8.97	20.0	Quadratic	
Isoprene	0.085	0.080	0.080	0.010	5.86	20.0	Averaged	
Isopropyl acetate	50.0	51.5	0.746	0.100	-2.993	20.0	Quadratic	
Allyl alcohol	1000	1012	0.018	0.004	-1.199	20.0	Quadratic	
Acetaldehyde	0.067	0.069	0.069	0.001	-2.091	20.0	Averaged	
Methyl Amyl Ketone	0.627	0.558	0.558	0.100	11.1	20.0	Averaged	
Dimethyl Disulfide	50.0	38.8	0.130	0.020	22.4	20.0	Quadratic	*
Isobutylene	50.0	46.5	0.114	0.010	7.04	20.0	Quadratic	
Ethyl Acrylate	0.882	0.815	0.815	0.100	7.54	20.0	Averaged	
Butyl methacrylate	50.0	44.9	0.501	0.100	10.3	20.0	Quadratic	
Propylene oxide	100	90.8	0.024	0.005	9.17	20.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	47.1	0.457	0.100	5.78	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

RunID U052429.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.267	0.248	0.248	0.100	7.04	50.0	Averaged	
Chloromethane	50.0	44.7	0.825	0.100	10.6	50.0	Quadratic	
Propionitrile	500	583	0.059	0.010	-16.543	50.0	Quadratic	
Vinyl Chloride	0.453	0.396	0.396	0.100	12.5	50.0	Averaged	
Bromomethane	50.0	52.6	0.145	0.100	-5.236	50.0	Quadratic	
Chloroethane	0.319	0.271	0.271	0.100	15.2	50.0	Averaged	
Trichlorofluoromethane	0.517	0.481	0.481	0.100	7.00	50.0	Averaged	
Acrolein	100	98.9	0.018	0.010	1.12	50.0	Quadratic	
Acetone	100	92.2	0.131	0.100	7.76	50.0	Linear	
1,1-Dichloroethene	0.315	0.272	0.272	0.100	13.5	50.0	Averaged	
Isobutyl Alcohol	1000	1016	0.053	0.005	-1.576	50.0	Quadratic	
Acetonitrile	0.041	0.039	0.039	0.005	5.00	50.0	Averaged	
Allyl Chloride	50.0	52.1	0.948	0.100	-4.107	50.0	Quadratic	
Iodomethane	100	70.7	0.042	0.100	29.3	50.0	Quadratic	
Acrylonitrile	100	108	0.140	0.050	-8.453	50.0	Quadratic	
Methylene Chloride	50.0	47.4	0.350	0.100	5.12	50.0	Quadratic	
Methyl tert-butyl ether	50.0	54.4	0.934	0.100	-8.869	50.0	Quadratic	
Carbon Disulfide	0.952	0.811	0.811	0.100	14.8	50.0	Averaged	
trans-1,2-Dichloroethene	0.361	0.302	0.302	0.100	16.3	50.0	Averaged	
Vinyl Acetate	100	92.8	0.194	0.010	7.24	50.0	Quadratic	
1,1-Dichloroethane	50.0	47.6	0.586	0.200	4.88	50.0	Quadratic	
Chloroprene	0.551	0.484	0.484	0.100	12.1	50.0	Averaged	
2-Butanone	100	90.1	0.188	0.100	9.91	50.0	Quadratic	
Methacrylonitrile	50.0	52.0	0.246	0.100	-3.980	50.0	Quadratic	
2,2-Dichloropropane	0.441	0.327	0.327	0.100	25.8	50.0	Averaged	
cis-1,2-Dichloroethene	0.433	0.360	0.360	0.100	16.9	50.0	Averaged	
Chloroform	50.0	47.0	0.600	0.200	6.03	50.0	Quadratic	
Bromochloromethane	50.0	48.7	0.184	0.100	2.51	50.0	Quadratic	
30 Dibromofluoromethane	50.0	57.3	0.374	0.100	-14.700	50.0	Quadratic	
1,1,1-Trichloroethane	0.504	0.470	0.470	0.100	6.83	50.0	Averaged	
1,1-Dichloropropene	0.353	0.309	0.309	0.100	12.6	50.0	Averaged	
1,2-Dichloroethane	50.0	47.1	0.329	0.100	5.85	50.0	Quadratic	
Carbon Tetrachloride	0.287	0.259	0.259	0.100	9.91	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	56.3	0.446	0.100	-12.683	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24051277

Project Groundwater Treatment Plant Quarterly Influent Samples

RunID U052429.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	46.7	0.961	0.500	6.60	50.0	Quadratic	
Trichloroethene	0.277	0.243	0.243	0.200	12.5	50.0	Averaged	
Bromodichloromethane	0.304	0.280	0.280	0.200	7.88	50.0	Averaged	
Methyl Methacrylate	50.0	54.5	0.141	0.100	-8.905	50.0	Quadratic	
2-Chloroethylvinyl ether	100	73.1	0.076	0.001	26.9	50.0	Quadratic	
1,2-Dichloropropane	50.0	46.4	0.259	0.100	7.16	50.0	Quadratic	
2-Nitropropane	50.0	56.7	0.084	0.000	-13.367	50.0	Quadratic	
Dibromomethane	0.172	0.147	0.147	0.100	14.5	50.0	Averaged	
4-Methyl-2-Pentanone	0.345	0.307	0.307	0.100	11.0	50.0	Averaged	
cis-1,3-Dichloropropene	0.351	0.328	0.328	0.200	6.66	50.0	Averaged	
48 Toluene-d8	50.0	60.4	1.12	0.100	-20.705	50.0	Quadratic	
Ethyl Methacrylate	0.369	0.377	0.377	0.100	-2.100	50.0	Averaged	
Toluene	1.26	1.09	1.09	0.400	13.8	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	43.4	0.265	0.100	13.2	50.0	Quadratic	
2-Hexanone	0.231	0.189	0.189	0.100	18.3	50.0	Averaged	
1,1,2-Trichloroethane	50.0	46.8	0.207	0.100	6.40	50.0	Quadratic	
1,3-Dichloropropane	50.0	46.8	0.446	0.100	6.40	50.0	Quadratic	
Dibromochloromethane	0.245	0.238	0.238	0.100	2.87	50.0	Averaged	
Tetrachloroethene	0.238	0.211	0.211	0.200	11.3	50.0	Averaged	
1,2-Dibromoethane	0.267	0.237	0.237	0.100	11.3	50.0	Averaged	
1-Chlorohexane	50.0	44.1	0.196	0.100	11.8	50.0	Quadratic	
Chlorobenzene	50.0	46.9	0.695	0.500	6.28	50.0	Quadratic	
1,1,1,2-Tetrachloroethane	0.261	0.236	0.236	0.100	9.50	50.0	Averaged	
Ethylbenzene	0.405	0.351	0.351	0.100	13.3	50.0	Averaged	
m,p-Xylenes	0.497	0.441	0.441	0.100	11.4	50.0	Averaged	
o-Xylene	0.487	0.442	0.442	0.300	9.14	50.0	Averaged	
Styrene	0.826	0.752	0.752	0.300	8.94	50.0	Averaged	
Bromoform	50.0	43.7	0.145	0.100	12.7	50.0	Quadratic	
Isopropylbenzene	1.21	1.10	1.10	0.100	8.91	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	45.6	0.618	0.300	8.82	50.0	Quadratic	
69 4-Bromofluorobenzene	50.0	59.7	0.410	0.100	-19.493	50.0	Quadratic	
1,2,3-Trichloropropane	50.0	44.1	0.608	0.100	11.9	50.0	Quadratic	
trans-1,4-Dichloro-2-butene	50.0	40.5	0.065	0.050	19.1	50.0	Quadratic	
n-Propylbenzene	2.58	2.35	2.35	0.100	9.06	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder**

Project Groundwater Treatment Plant Quarterly Influent Samples **HS24051277**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

U052429.D

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.658	0.550	0.550	0.100	16.4	50.0	Averaged	
1,3,5-Trimethylbenzene	1.78	1.65	1.65	0.100	7.58	50.0	Averaged	
2-Chlorotoluene	1.67	1.43	1.43	0.100	14.8	50.0	Averaged	
4-Chlorotoluene	1.91	1.64	1.64	0.100	14.1	50.0	Averaged	
tert-Butylbenzene	1.56	1.42	1.42	0.100	9.13	50.0	Averaged	
1,2,4-Trimethylbenzene	1.83	1.61	1.61	0.100	11.7	50.0	Averaged	
sec-Butylbenzene	2.08	1.90	1.90	0.100	8.70	50.0	Averaged	
p-Isopropyltoluene	1.81	1.66	1.66	0.100	8.32	50.0	Averaged	
1,3-Dichlorobenzene	50.0	45.7	0.965	0.600	8.59	50.0	Quadratic	
1,4-Dichlorobenzene	50.0	46.0	1.01	0.400	8.04	50.0	Quadratic	
Benzyl Chloride	50.0	30.0	0.187	0.010	40.1	50.0	Quadratic	
n-Butylbenzene	50.0	41.9	1.39	0.500	16.2	50.0	Quadratic	
1,2-Dichlorobenzene	50.0	45.7	0.951	0.400	8.53	50.0	Quadratic	
1,2-Dibromo-3-Chloropropane	50.0	42.2	0.071	0.050	15.6	50.0	Quadratic	
1,2,4-Trichlorobenzene	0.751	0.601	0.601	0.200	19.9	50.0	Averaged	
Hexachlorobutadiene	50.0	41.7	0.252	0.100	16.6	50.0	Quadratic	
Naphthalene	1.59	1.43	1.43	0.200	10.2	50.0	Averaged	
1,2,3-Trichlorobenzene	0.699	0.544	0.544	0.100	22.2	50.0	Averaged	
Methyl Acetate	50.0	48.6	0.380	0.100	2.89	50.0	Quadratic	
Freon TF	0.538	0.552	0.552	0.100	-2.582	50.0	Averaged	
Cyclohexane	50.0	47.6	0.524	0.100	4.81	50.0	Quadratic	
Tetrahydrofuran	100	115	0.074	0.001	-14.505	50.0	Quadratic	
Methylcyclohexane	0.600	0.646	0.646	0.100	-7.555	50.0	Averaged	
1,4-Dioxane	1000	1061	0.004	0.001	-6.134	50.0	Quadratic	
n-Butanol	0.009	0.009	0.009	0.005	0.907	50.0	Averaged	
n-Hexane	50.0	42.3	0.303	0.100	15.3	50.0	Quadratic	
Diethyl ether	50.0	54.2	0.258	0.100	-8.362	50.0	Quadratic	
Tert-butyl alcohol	1000	1175	0.026	0.005	-17.529	50.0	Quadratic	
Isopropyl alcohol	1000	1171	0.021	0.005	-17.077	50.0	Quadratic	
Amyl alcohol	1000	1108	0.008	0.005	-10.820	50.0	Quadratic	
Diisopropyl ether	50.0	54.2	1.25	0.100	-8.432	50.0	Quadratic	
Butyl acrylate	0.529	0.528	0.528	0.100	0.065	50.0	Averaged	
n-Amyl acetate	50.0	47.0	0.469	0.100	5.99	50.0	Quadratic	
Dicyclopentadiene	50.0	53.5	2.34	0.100	-7.045	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

RunID U052429.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U052429.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-MAY-2024 2238
ICAL Date(s) 22-MAY-2024, 22-MAY-2024
ICAL Times 20:22, 23:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,2,3-Trimethylbenzene	1.70	1.79	1.79	0.100	-5.341	50.0	Averaged	
Ethanol	1000	1179	0.004	0.001	-17.874	50.0	Quadratic	
tert-Butyl formate	100	122	0.273	0.100	-22.117	50.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	1197	0.032	0.005	-19.705	50.0	Quadratic	
tert-Amyl methyl ether	1.11	1.12	1.12	0.005	-1.341	50.0	Averaged	
tert-Butyl ethyl ether	1.11	1.10	1.10	0.100	1.05	50.0	Averaged	
tert-Amyl alcohol	1000	1206	0.027	0.005	-20.596	50.0	Quadratic	
4-Methyl-2-pentanol	0.075	0.083	0.083	0.005	-10.933	50.0	Averaged	
1,3-Butadiene	0.198	0.182	0.182	0.100	7.81	50.0	Averaged	
Epichlorohydrin	200	203	0.016	0.001	-1.620	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.397	0.331	0.331	0.200	16.6	50.0	Averaged	
95 Xylenes (total)	0.446	0.399	0.399	0.100	10.6	50.0	Averaged	
alpha-Methylstyrene	0.732	0.658	0.658	0.100	10.2	50.0	Averaged	
Ethyl Acetate	50.0	46.4	0.388	0.100	7.15	50.0	Quadratic	
Methyl Acrylate	50.0	55.0	0.472	0.100	-9.937	50.0	Quadratic	
n-Butyl acetate	0.516	0.438	0.438	0.100	15.1	50.0	Averaged	
Cyclohexanone	1000	1047	0.028	0.005	-4.661	50.0	Quadratic	
Isoprene	0.085	0.080	0.080	0.010	5.56	50.0	Averaged	
Isopropyl acetate	50.0	50.4	0.730	0.100	-0.817	50.0	Quadratic	
Allyl alcohol	1000	847	0.015	0.004	15.3	50.0	Quadratic	
Acetaldehyde	0.067	0.104	0.104	0.001	-55.054	50.0	Averaged	
Methyl Amyl Ketone	0.627	0.632	0.632	0.100	-0.779	50.0	Averaged	
Dimethyl Disulfide	50.0	46.1	0.159	0.020	7.78	50.0	Quadratic	
Isobutylene	++++	++++	1.200e+65	0.010	++++	50.0	Quadratic	*
Ethyl Acrylate	0.882	0.937	0.937	0.100	-6.330	50.0	Averaged	
Butyl methacrylate	50.0	54.2	0.607	0.100	-8.364	50.0	Quadratic	
Propylene oxide	100	90.3	0.024	0.005	9.74	50.0	Quadratic	
2-Ethylhexyl Acrylate	50.0	52.1	0.512	0.100	-4.202	50.0	Quadratic	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder HS24051277

EPA SW8260

VOA9_467761		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U052402.D	250537	#	4.82	#	360480	#	5.55	#	326475	#	8.19	#	177240	#	10.17	#
HS24051277-01	U052422.D	238277		4.82		349128		5.55		320689		8.18		167244		10.17	
HS24051277-02	U052412.D	237098		4.81		352717		5.55		319034		8.18		160637		10.17	
VBLKW-240524	U052406.D	246217		4.81		360374		5.55		327810		8.18		167574		10.17	
VLCSDW-240524	U052404.D	247860		4.81		366459		5.55		328317		8.18		176750		10.17	
VLCSW-240524	U052403.D	248200		4.81		359699		5.55		318485		8.19		167134		10.17	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Quarterly Influent Samples	**HS24051277**	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA9-467470

Run ID VOA9_467470 **Start Date** 05/22/24 **EndDate** 05/23/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
20:22	VSTD00.25	ICAL1	VSTD00.25	V052202.D	05/22/24	1
20:44	VSTD00.5	ICAL2	VSTD00.5	V052203.D	05/22/24	1
21:05	VSTD001	ICAL3	VSTD001	V052204.D	05/22/24	1
21:27	VSTD002	ICAL4	VSTD002	V052205.D	05/22/24	1
21:48	VSTD005	ICAL5	VSTD005	V052206.D	05/22/24	1
22:10	VSTD020	ICAL6	VSTD020	V052207.D	05/22/24	1
22:31	VSTD050	ICAL7	VSTD050	V052208.D	05/22/24	1
22:53	VSTD100	ICAL8	VSTD100	V052209.D	05/22/24	1
23:14	VSTD150	ICAL9	VSTD150	V052210.D	05/22/24	1
23:36	VSTD200	ICAL	VSTD200	V052211.D	05/22/24	1
00:40	VSTD050	ICV	VSTD050	V052214.D	05/23/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder **HS24051277**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-467761

Run ID VOA9_467761 **Start Date** 05/24/24 **EndDate** 05/24/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
12:52	VSTD050	CCV	VSTD050	U052402.D	05/24/24	1
13:13	VLCSW-240524	LCS	VLCSW-240524	U052403.D	05/24/24	1
13:35	VLCSDW-240524	LCSD	VLCSDW-240524	U052404.D	05/24/24	1
14:18	VBLKW-240524	MBLK	VBLKW-240524	U052406.D	05/24/24	1
16:05	HS24051276-03	SAMP	ZZZZZZZZZZ	U052411.D	05/24/24	1
16:27	HS24051277-02	SAMP	Trip Blank	U052412.D	05/24/24	1
16:49	HS24051300-10	SAMP	ZZZZZZZZZZ	U052413.D	05/24/24	1
17:10	HS24051276-01	SAMP	ZZZZZZZZZZ	U052414.D	05/24/24	1
17:32	HS24051300-01	SAMP	ZZZZZZZZZZ	U052415.D	05/24/24	1
17:53	HS24051300-02	SAMP	ZZZZZZZZZZ	U052416.D	05/24/24	1
18:15	HS24051300-03	SAMP	ZZZZZZZZZZ	U052417.D	05/24/24	1
19:20	HS24051228-01	SAMP	ZZZZZZZZZZ	U052420.D	05/24/24	5000
19:44	HS24051300-06	SAMP	ZZZZZZZZZZ	U052421.D	05/24/24	5
20:08	HS24051277-01	SAMP	LH18/24-	U052422.D	05/24/24	25
22:38	VSTD050	CCV_END	VSTD050	U052429.D	05/24/24	1

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RawData

<textMethods>

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052201.D Page 1
Report Date: 23-May-2024 09:01

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052201.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 22-MAY-2024 20:01
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 28 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	63648			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	11622			15.00- 40.00	18.26
9.194	9.180	(0.000)	75	30160			30.00- 60.00	47.39
9.194	9.180	(0.000)	96	4229			5.00- 9.00	6.64
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	59736			50.00- 0.00	93.85
9.194	9.180	(0.000)	175	5276			5.00- 9.00	8.83
9.194	9.180	(0.000)	176	58936			95.00- 101.00	98.66
9.194	9.180	(0.000)	177	3743			5.00- 9.00	6.35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.26
75	30.00 - 60.00% of mass 95	47.39
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.85
175	5.00 - 9.00% of mass 174	8.29 (8.83)
176	95.00 - 101.00% of mass 174	92.60 (98.66)
177	5.00 - 9.00% of mass 176	5.88 (6.35)

Data File: V052201.D
Spectrum: Scan 2296 (9.20)
Location of Maximum: 95.05
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	563	63.00	2132	92.00	1742	140.90	612
37.10	3027	63.90	318	93.00	2576	141.90	135
38.00	2791	65.00	268	94.00	7830	142.90	699
39.00	1025	68.00	6225	95.00	63648	144.80	92
40.00	186	69.00	6319	96.00	4229	145.80	122
41.10	53	69.90	501	97.00	136	147.90	183
44.00	463	71.30	52	103.90	256	150.00	85
45.00	614	72.10	380	104.80	101	153.00	57
47.00	1051	73.00	2741	106.00	242	154.90	181
47.90	438	74.00	10686	106.80	79	156.90	128
49.00	2566	75.00	30160	109.90	67	158.80	109
50.00	11622	76.00	2524	110.90	84	160.60	56
51.00	3643	76.90	423	115.80	213	171.90	389
52.00	158	77.80	228	116.90	487	173.90	59736
52.90	56	78.90	1553	117.80	250	175.10	5276
55.00	170	80.00	493	118.80	372	175.90	58936
56.00	949	80.90	1680	127.90	266	176.90	3743
57.00	1780	81.90	355	128.80	142	177.80	82
58.00	93	83.10	60	130.00	270		
60.00	596	87.00	3069	130.80	83		
61.00	2733	88.00	2717	134.90	108		
62.00	2666	91.00	242	136.90	76		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052201.d Page 1

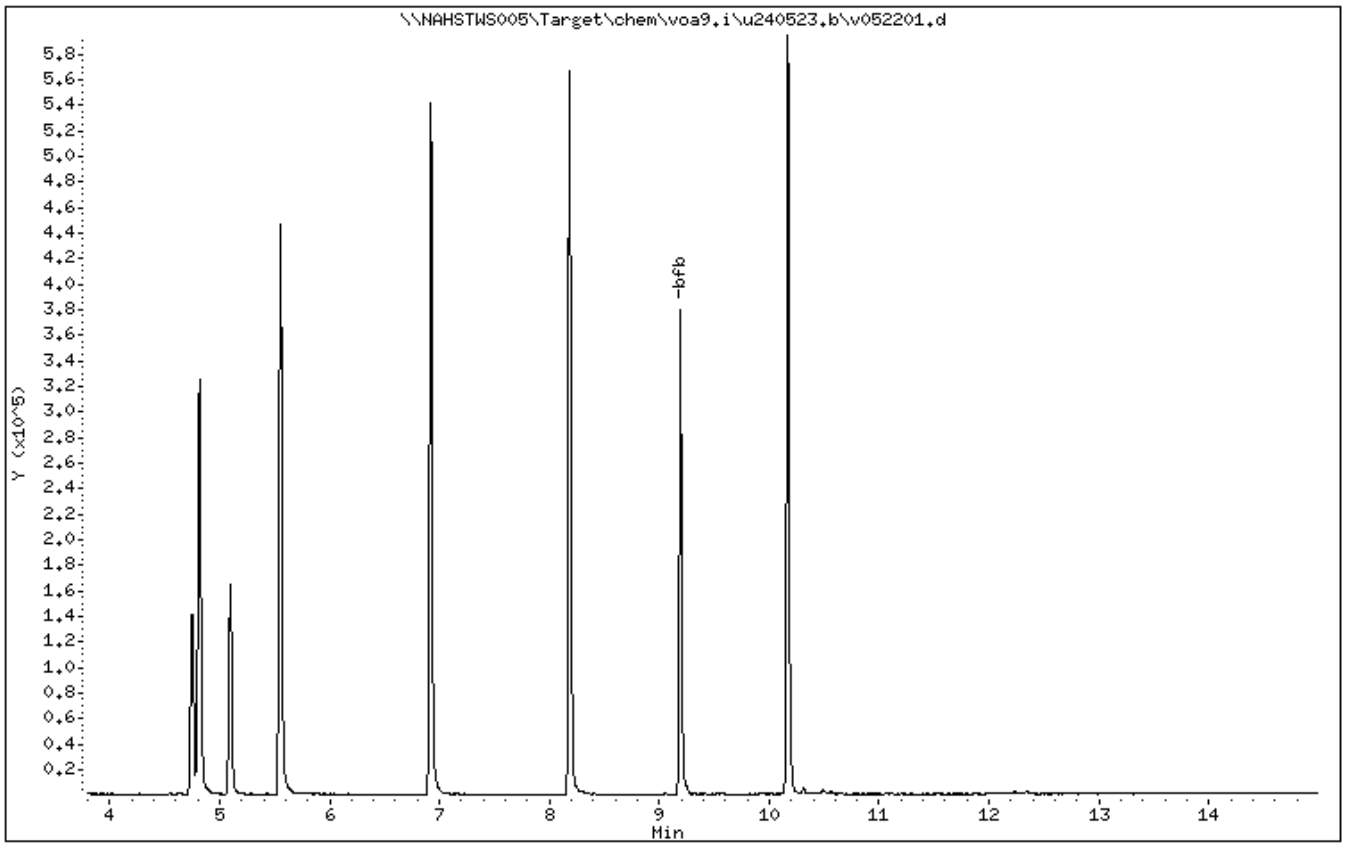
Date : 22-MAY-2024 20:01

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052201.d
Inj Date : 22-MAY-2024 20:01
InstruID : VOA9.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052202.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052202.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 22-MAY-2024 20:22
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 29 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

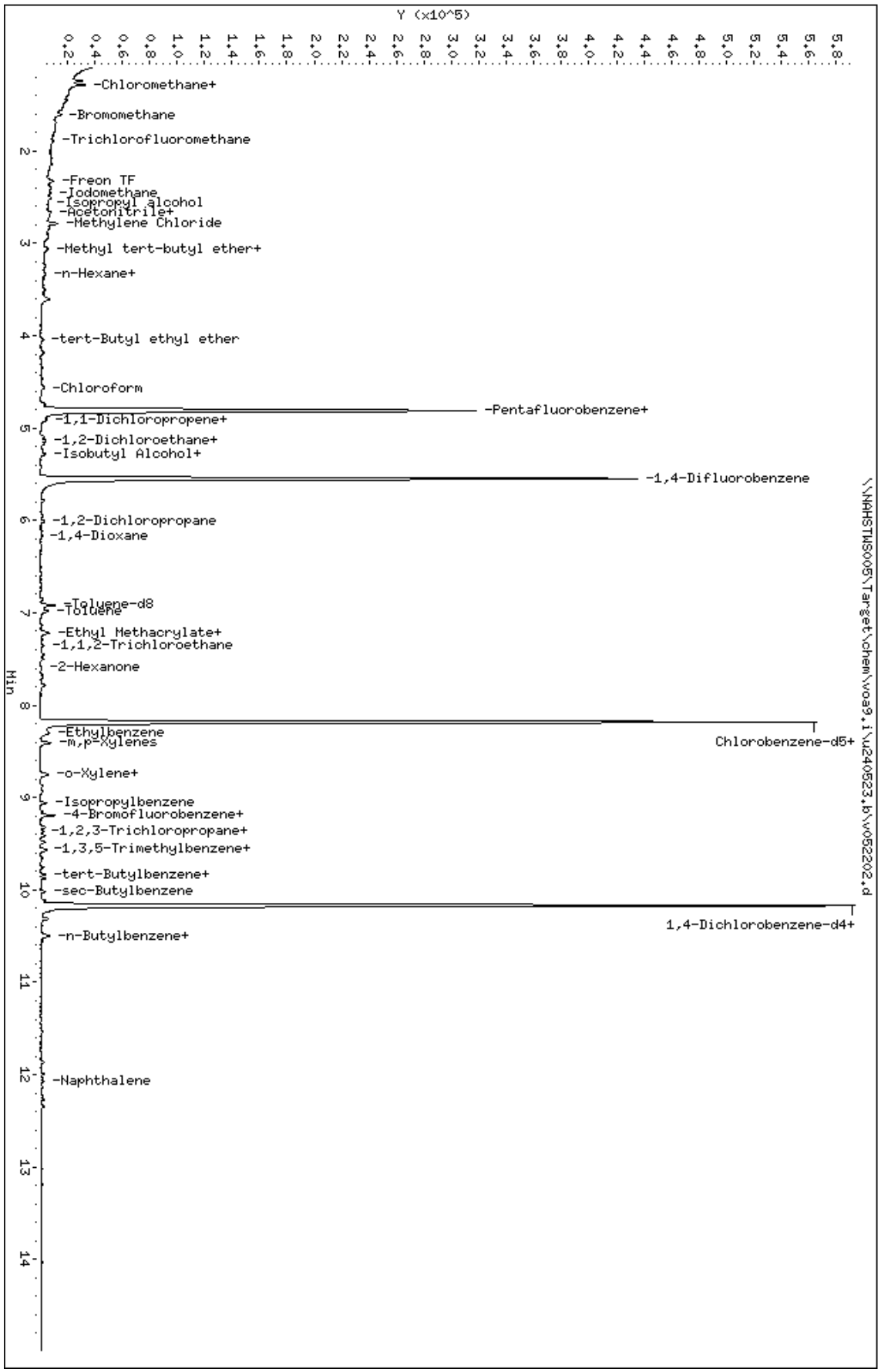
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.811	4.811	(1.000)	232479	50.0000	
	2 Dichlorodifluoromethane	85	1.007	1.007	(0.209)	10432	0.25000	8.41
	3 Chloromethane	50	1.288	1.288	(0.268)	8247	0.25000	1.14
	5 Vinyl Chloride	62	1.370	1.370	(0.285)	918	0.25000	0.43(a)
	6 Bromomethane	94	1.610	1.610	(0.335)	1392	0.25000	1.20
	8 Trichlorofluoromethane	101	1.884	1.884	(0.392)	1078	0.25000	0.44(a)
	12 Isobutyl Alcohol	43	5.284	5.284	(1.098)	1728	5.00000	6.15(a)
	13 Acetonitrile	39	2.667	2.667	(0.554)	837	2.50000	4.35(a)
	14 Allyl Chloride	41	2.663	2.663	(0.554)	1717	0.25000	0.34(a)
	15 Iodomethane	142	2.457	2.457	(0.511)	1022	0.50000	2.34(T)
	17 Methylene Chloride	84	2.783	2.783	(0.579)	3291	0.25000	1.14
	18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	1715	0.25000	0.36(a)
	20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	695	0.25000	0.41(Ta)
	28 Chloroform	83	4.568	4.568	(0.949)	1332	0.25000	0.39(a)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	1338	0.25000	0.79
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	914	0.25000	0.39(a)
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	1320	0.25000	0.53
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	1065	0.25000	0.39(a)
	34 Carbon Tetrachloride	117	4.901	4.901	(0.884)	654	0.25000	0.32(a)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	1960	50.0000	0.92(T)

*	36 1,4-Difluorobenzene	114	5.546	5.546 (1.000)	346650	50.0000	
	37 Benzene	78	5.134	5.134 (0.926)	3079	0.25000	0.38(a)

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	42	1,2-Dichloropropane	63	6.011	6.011	(1.084)	948	0.25000	0.43(a)
*	47	Chlorobenzene-d5	117	8.182	8.182	(1.000)	307836	50.0000	
$	48	Toluene-d8	98	6.918	6.918	(0.846)	6724	50.0000	1.07(a)
	49	Ethyl Methacrylate	69	7.218	7.218	(1.301)	731	0.25000	0.28(a)
	50	Toluene	91	6.978	6.978	(0.853)	3474	0.25000	0.44(a)
	52	2-Hexanone	43	7.597	7.597	(0.929)	973	0.50000	0.68(Ta)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	605	0.25000	0.39(a)
	58	1-Chlorohexane	55	8.182	8.182	(1.475)	3533	0.25000	1.27(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	2246	0.25000	0.42(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	1076	0.25000	0.43(a)
	62	m,p-Xylenes	106	8.410	8.410	(1.028)	2145	0.50000	0.70(a)
	63	o-Xylene	106	8.744	8.744	(1.069)	1112	0.25000	0.37(a)
	64	Styrene	104	8.763	8.763	(1.071)	1442	0.25000	0.28(a)
	67	Isopropylbenzene	105	9.059	9.059	(1.107)	2545	0.25000	0.34(a)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.124)	3188	50.0000	1.33(a)
*	70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	154174	50.0000	
	71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	859	0.25000	0.36(a)
	73	n-Propylbenzene	91	9.415	9.415	(0.926)	3118	0.25000	0.39(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	807	0.25000	0.39(a)
	75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1792	0.25000	0.32(a)
	76	2-Chlorotoluene	91	9.482	9.482	(0.933)	1993	0.25000	0.38(a)
	77	4-Chlorotoluene	91	9.576	9.576	(0.942)	2268	0.25000	0.38(a)
	78	tert-Butylbenzene	119	9.835	9.835	(0.967)	1705	0.25000	0.35(a)
	79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1840	0.25000	0.32(a)
	81	sec-Butylbenzene	105	10.022	10.022	(0.986)	2367	0.25000	0.36(a)
	82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	1945	0.25000	0.34(a)
	83	1,3-Dichlorobenzene	146	10.187	10.187	(1.002)	1976	0.25000	0.54(a)
	84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	1976	0.25000	0.48(a)
	87	n-Butylbenzene	91	10.491	10.491	(1.032)	2454	0.25000	0.45(a)
	88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	1467	0.25000	0.39(a)
	92	Naphthalene	128	12.073	12.073	(1.187)	1592	0.25000	0.32(a)
	138	Freon TF	101	2.326	2.326	(0.483)	798	0.25000	0.31(a)
	141	Cyclohexane	56	4.808	4.808	(0.999)	5173	0.25000	1.22(a)
	135	1,4-Dioxane	88	6.176	6.176	(1.284)	280	5.00000	10.63(aM)
	136	n-Hexane	57	3.331	3.331	(0.692)	905	0.25000	0.49(a)
	149	Isopropyl alcohol	45	2.558	2.558	(0.532)	1185	5.00000	10.63(T)
	166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1772	0.25000	0.33(a)
	174	tert-Amyl methyl ether	73	5.276	5.276	(1.097)	1715	0.25000	0.33(Ta)
	175	tert-Butyl ethyl ether	59	4.035	4.035	(0.839)	1741	0.25000	0.33(a)
	176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	904	5.00000	6.78
	151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	3849	5.00000	7.42
M	94	1,2-Dichloroethylene (total)	96				695	0.50000	(a)
	134	Cyclohexanone	55	9.152	9.152	(0.900)	673	5.00000	7.55(Ta)
	150	Allyl alcohol	57	3.331	3.331	(0.692)	905	5.00000	9.95

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052202.d
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Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^5)
Min
-Chloromethane+
-Bromomethane
-Trichlorofluoromethane
-Freon TF
-Iodomethane
-Isopropyl alcohol
-Acetonitrile+
-Methylene Chloride
-Methyl tert-butyl ether+
-n-Hexane+
-tert-Butyl ethyl ether
-Chloroform
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-1,2-Dichloropropane
-1,4-Dioxane
-Toluene-d8
-Toluene
-Ethyl Methacrylate+
-1,1,2-Trichloroethane
-2-Hexanone
-Ethylbenzene
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,2,3-Trichloropropane+
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Naphthalene
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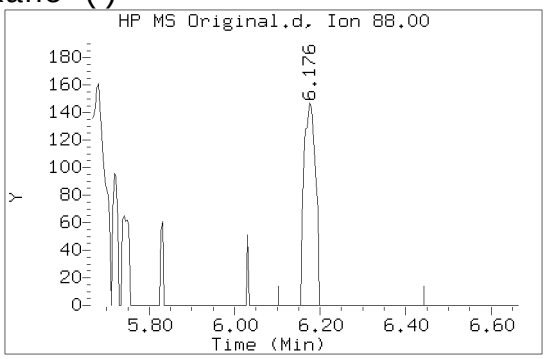
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Inj Date : 22-MAY-2024 20:22
InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

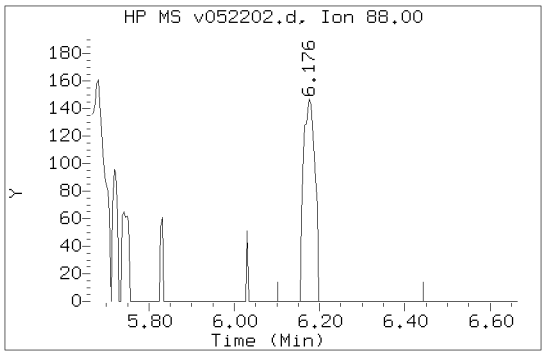
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23-May-2024
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tastan



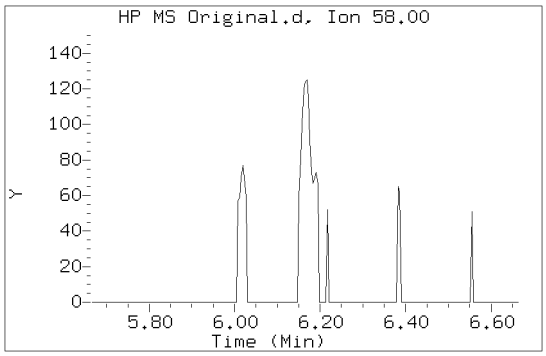
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23-May-2024
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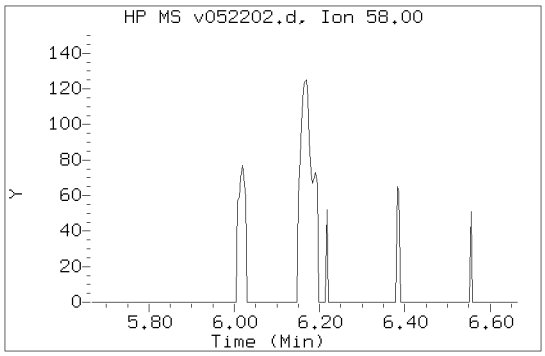
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AFTER

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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052203.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052203.D
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Inj Date : 22-MAY-2024 20:44
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 20:22 Cal File: V052202.D
Als bottle: 30 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	232568	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	744	0.50000	0.59(M)
3	Chloromethane	50	1.299	1.299	(0.270)	9635	0.50000	1.33
4	Propionitrile	54	4.350	4.350	(0.903)	1689	5.00000	5.74(aM)
5	Vinyl Chloride	62	1.381	1.381	(0.287)	1278	0.50000	0.60
6	Bromomethane	94	1.621	1.621	(0.337)	1387	0.50000	1.20
7	Chloroethane	64	1.704	1.704	(0.354)	863	0.50000	0.59(M)
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	1363	0.50000	0.56
9	Acrolein	56	2.281	2.281	(0.474)	256	1.00000	2.11(aM)
10	Acetone	43	2.412	2.412	(0.501)	2401	1.00000	2.86
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	799	0.50000	0.54(M)
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	3376	10.0000	12.02(Ta)
13	Acetonitrile	39	2.675	2.675	(0.555)	1051	5.00000	5.47(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	3162	0.50000	0.63(a)
15	Iodomethane	142	2.468	2.468	(0.513)	972	1.00000	2.22(T)
16	Acrylonitrile	53	3.072	3.072	(0.638)	887	1.00000	1.20
17	Methylene Chloride	84	2.798	2.798	(0.581)	3393	0.50000	1.17
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	2576	0.50000	0.55
19	Carbon Disulfide	76	2.525	2.525	(0.524)	5214	1.00000	1.17
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	1021	0.50000	0.60

21 Vinyl Acetate	43	4.347	4.347 (0.903)	1730	1.00000	1.50(M)
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	2200	0.50000	0.65(T)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	1472	0.50000	0.57(aM)
24	2-Butanone	43	4.283	4.283	(0.889)	1551	1.00000	1.43(M)
25	Methacrylonitrile	41	4.512	4.512	(0.937)	666	0.50000	0.54(aM)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	1245	0.50000	0.60(M)
27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	1145	0.50000	0.56
28	Chloroform	83	4.579	4.579	(0.951)	2029	0.50000	0.60
29	Bromochloromethane	128	4.467	4.467	(0.928)	572	0.50000	0.57(M)
$ 30	Dibromofluoromethane	113	4.751	4.751	(0.987)	1204	0.50000	0.71
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	1166	0.50000	0.49(a)
32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	1600	0.50000	0.65
33	1,2-Dichloroethane	62	5.183	5.183	(0.933)	1661	0.50000	0.61
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	1115	0.50000	0.56
$ 35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	1807	0.50000	0.85(T)
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	344705	50.0000	
37	Benzene	78	5.141	5.141	(0.926)	4963	0.50000	0.63
38	Trichloroethene	130	5.786	5.786	(1.042)	1137	0.50000	0.59(a)
39	Bromodichloromethane	83	6.277	6.277	(1.130)	1006	0.50000	0.47(aM)
40	Methyl Methacrylate	41	5.835	5.835	(1.212)	284	0.50000	0.39(aM)
41	2-Chloroethylvinyl ether	63	6.581	6.581	(1.185)	481	1.00000	0.71(aM)
42	1,2-Dichloropropane	63	6.011	6.011	(1.082)	1434	0.50000	0.65(a)
43	2-Nitropropane	43	6.510	6.510	(1.352)	138	0.50000	0.34(aM)
44	Dibromomethane	93	6.120	6.120	(1.102)	619	0.50000	0.52(a)
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	2364	1.00000	1.11(a)
46	cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	1137	0.50000	0.46(aM)
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	307301	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	5599	0.50000	0.89(a)
49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	1247	0.50000	0.49(aM)
50	Toluene	91	6.982	6.982	(0.853)	4848	0.50000	0.62(a)
51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.296)	806	0.50000	0.42(aM)
52	2-Hexanone	43	7.597	7.597	(0.928)	1763	1.00000	1.24(a)
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	940	0.50000	0.61(a)
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	1916	0.50000	0.59(aM)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	646	0.50000	0.42(aM)
56	Tetrachloroethene	164	7.458	7.458	(0.911)	868	0.50000	0.59(a)
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	838	0.50000	0.50(a)
58	1-Chlorohexane	55	8.185	8.185	(1.474)	3782	0.50000	1.36(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	3466	0.50000	0.65(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	811	0.50000	0.50(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	1469	0.50000	0.59(a)
62	m,p-Xylenes	106	8.410	8.410	(1.027)	3456	1.00000	1.13(a)
63	o-Xylene	106	8.748	8.748	(1.069)	1659	0.50000	0.55(a)
64	Styrene	104	8.766	8.766	(1.071)	2610	0.50000	0.51(a)
66	Bromoform	173	8.916	8.916	(1.089)	392	0.50000	0.41(aM)
67	Isopropylbenzene	105	9.062	9.062	(1.107)	4153	0.50000	0.55(a)
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1392	0.50000	0.57(aM)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	2573	0.50000	1.07(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	157411	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	1521	0.50000	0.63(a)
72	trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	267	0.50000	0.48(aM)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	4473	0.50000	0.55(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	1115	0.50000	0.53(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	3003	0.50000	0.53(a)

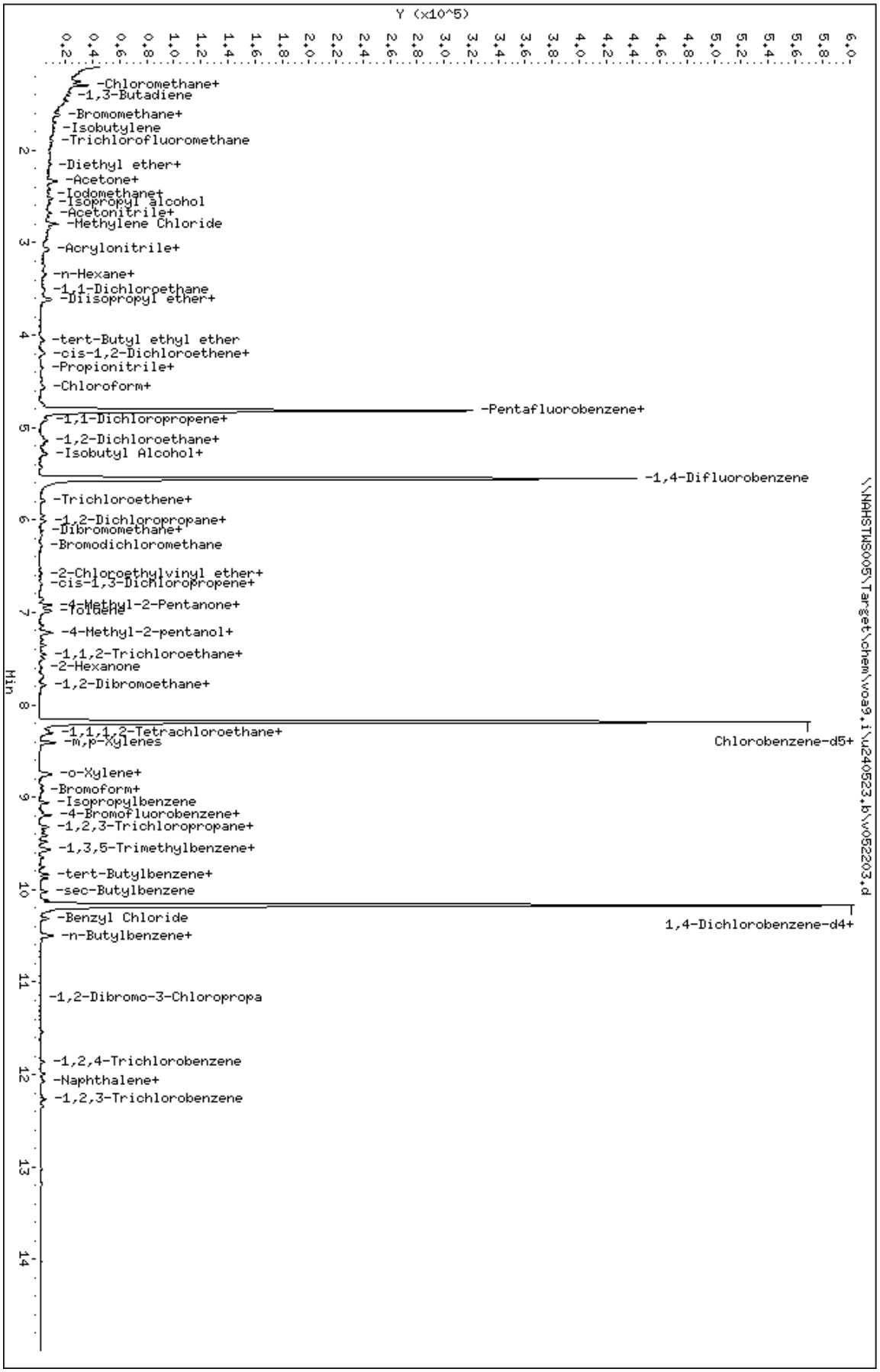
76	2-Chlorotoluene	91	9.482	9.482 (0.933)	2994	0.50000	0.56(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	3281	0.50000	0.54(a)

Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052203.D Page 3
Report Date: 23-May-2024 09:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	2597	0.50000	0.52(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	3521	0.50000	0.61(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	3488	0.50000	0.53(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	2911	0.50000	0.51(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	2161	0.50000	0.58(aM)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	3093	0.50000	0.74(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	4426	0.50000	1.31(aM)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	3735	0.50000	0.67(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	2392	0.50000	0.63(a)
89	1,2-Dibromo-3-Chloropropane	155	11.173	11.173	(1.099)	132	0.50000	0.49(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.167)	1398	0.50000	0.59(aM)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	739	0.50000	0.71(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	2546	0.50000	0.50(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.207)	1339	0.50000	0.60(aM)
146	Methyl acetate	43	2.716	2.716	(0.564)	1546	0.50000	0.66(aM)
138	Freon TF	101	2.341	2.341	(0.486)	1173	0.50000	0.46(a)
141	Cyclohexane	56	4.815	4.815	(1.000)	5290	0.50000	1.25(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	1777	0.50000	0.42(a)
135	1,4-Dioxane	88	6.176	6.176	(1.283)	374	10.0000	14.20(aM)
132	n-Butanol	56	5.839	5.839	(1.213)	459	10.0000	10.47(aM)
136	n-Hexane	57	3.349	3.349	(0.696)	1310	0.50000	0.72(Ta)
139	Diethyl ether	59	2.150	2.150	(0.447)	778	0.50000	0.60(aM)
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	1855	10.0000	13.41(M)
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	1468	10.0000	13.16(T)
152	Amyl alcohol	42	7.413	7.413	(0.906)	903	10.0000	16.75(M)
156	Diisopropyl ether	45	3.627	3.627	(0.753)	3742	0.50000	0.61(aM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	1919	0.50000	0.55(aM)
164	Dicyclopentadiene	66	10.195	10.195	(1.003)	6100	0.50000	0.74(TaM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	2789	0.50000	0.52(a)
167	Ethanol	45	2.094	2.094	(0.435)	322	10.0000	14.15(M)
172	tert-Butyl formate	59	5.246	5.246	(1.090)	1386	1.00000	1.03(aM)
173	3,3-Dimethyl-1-butanol	57	7.784	7.784	(0.951)	2315	10.0000	11.39(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	2738	0.50000	0.53(Ta)
175	tert-Butyl ethyl ether	59	4.058	4.058	(0.843)	2911	0.50000	0.56(a)
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	1386	10.0000	10.39
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	4329	10.0000	8.39
140	1,3-Butadiene	54	1.408	1.408	(0.292)	594	0.50000	0.64(aM)
182	Epichlorohydrin	57	6.630	6.630	(1.194)	205	2.00000	1.63(aM)
M 94	1,2-Dichloroethylene (total)	96				2166	1.00000	(a)
130	Ethyl Acetate	43	4.347	4.347	(0.903)	1741	0.50000	0.76(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.910)	1203	0.50000	0.53(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	1715	0.50000	0.54(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	937	10.0000	10.29(Ta)
185	Isoprene	39	2.157	2.157	(0.448)	204	0.50000	0.51(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	3832	0.50000	0.66(aM)
150	Allyl alcohol	57	3.349	3.349	(0.696)	1310	10.0000	14.40
195	Methyl Amyl Ketone	43	8.875	8.875	(1.084)	1710	0.50000	0.44(aM)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	343	0.50000	0.35(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	1303	0.50000	0.60(a)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	680	0.50000	0.44(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\u240523,b\v052203,d
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Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

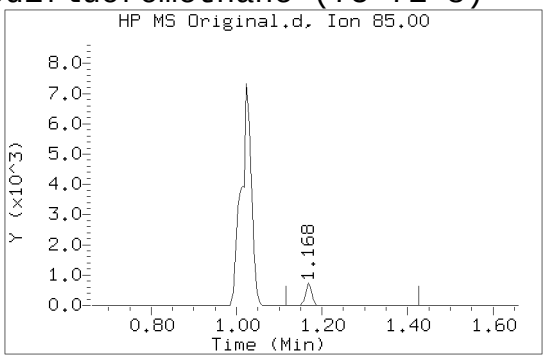
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

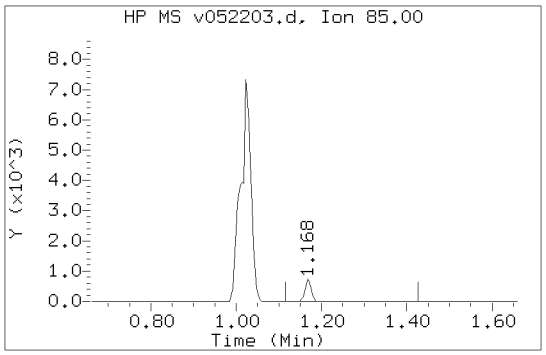
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HEIGHT
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23-May-2024
09:51
firat
tastan



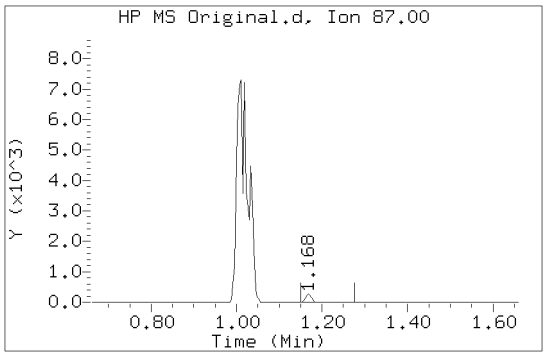
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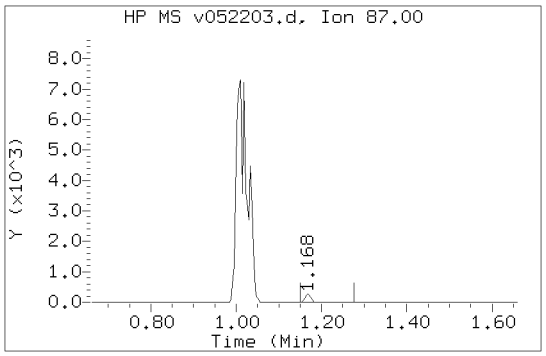
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AFTER

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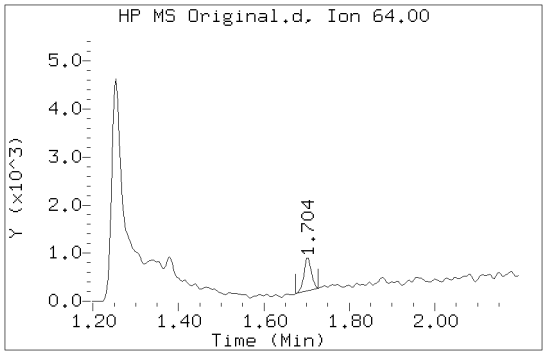


Chloroethane (75-00-3)

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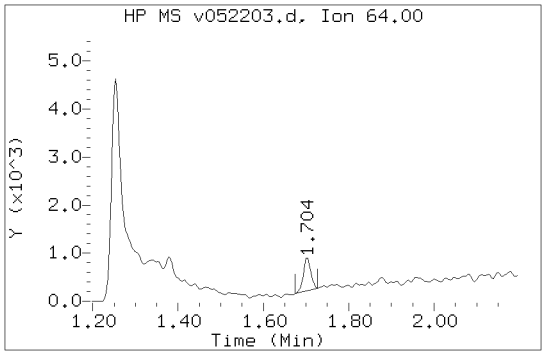
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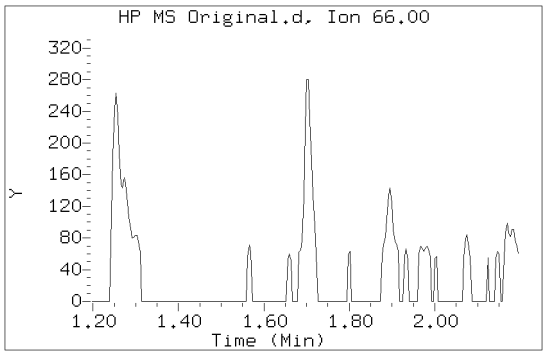
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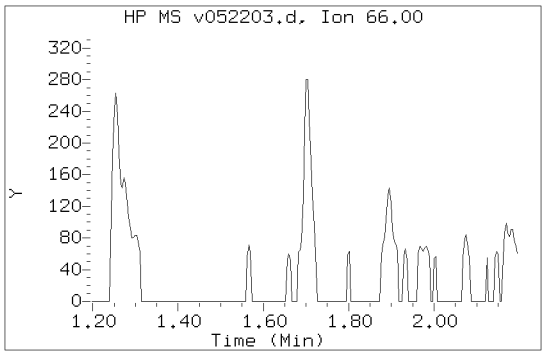
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AFTER

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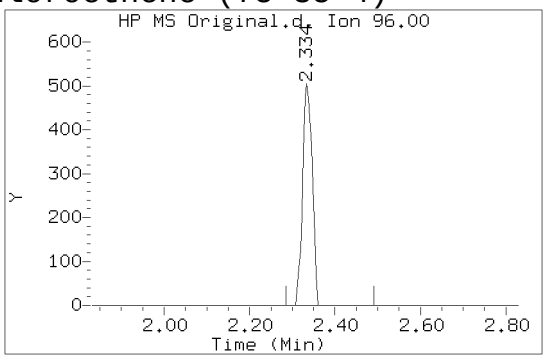
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InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

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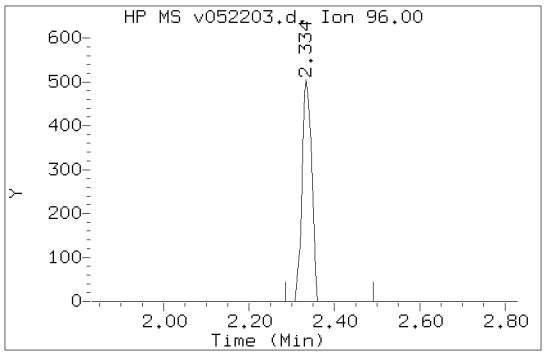
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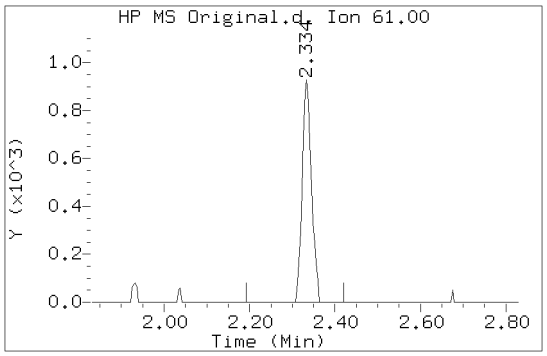
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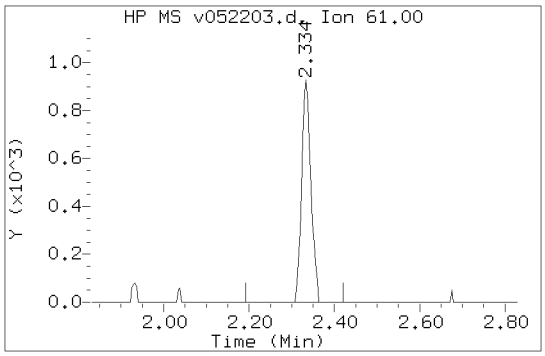
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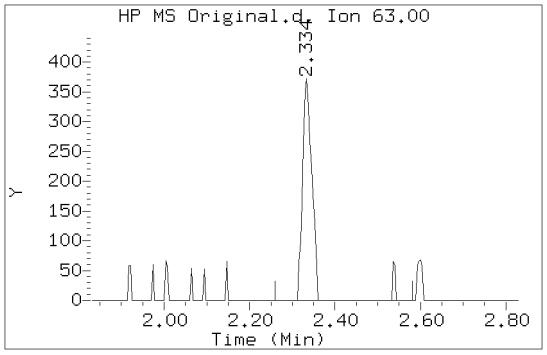
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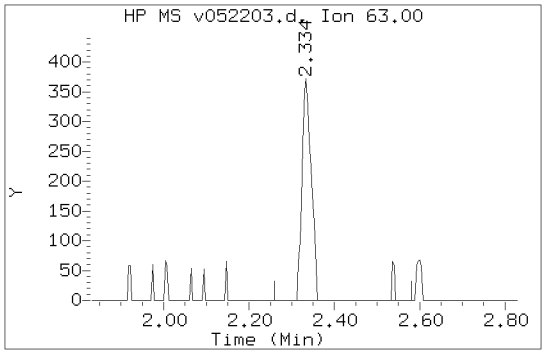
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AFTER

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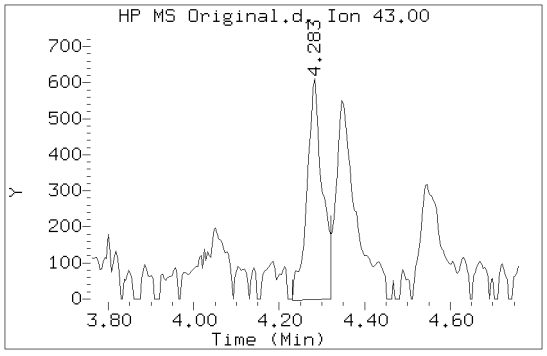


2-Butanone (78-93-3)

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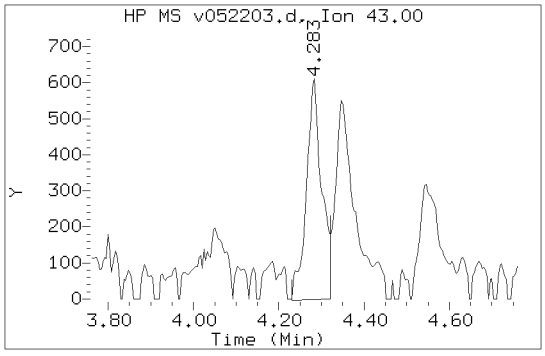
BEFORE

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612
23-May-2024
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AFTER

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HEIGHT
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23-May-2024
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firat
tastan



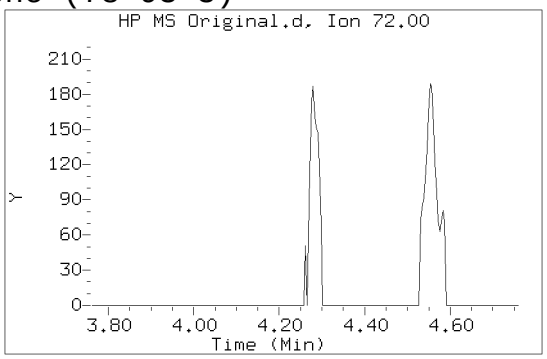
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InstruID : VOA9.i
LabSampID : VSTD00.5

2-Butanone (78-93-3)

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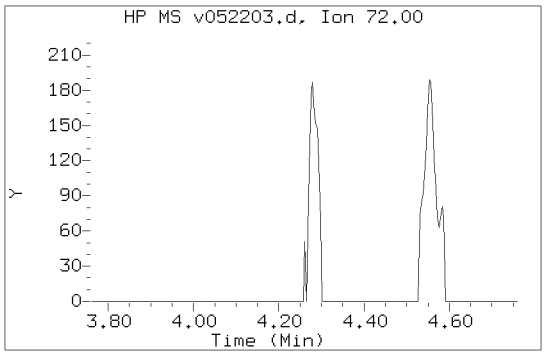
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AFTER

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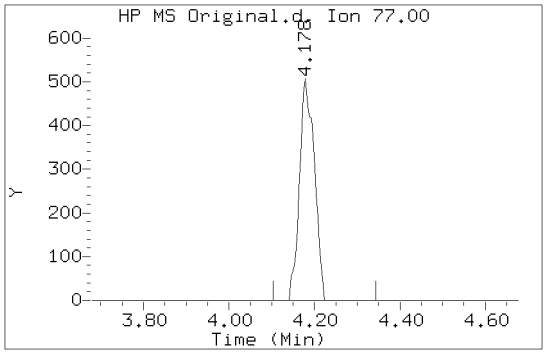


2,2-Dichloropropane (594-20-7)

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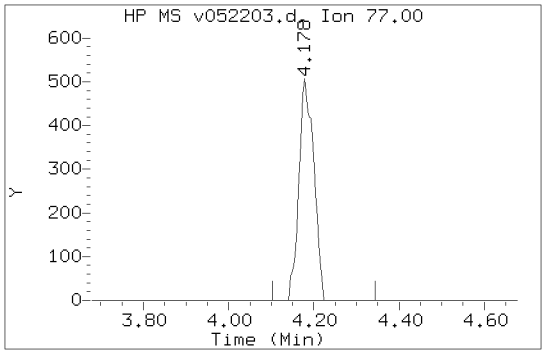
BEFORE

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507
23-May-2024
09:51
firat
tastan



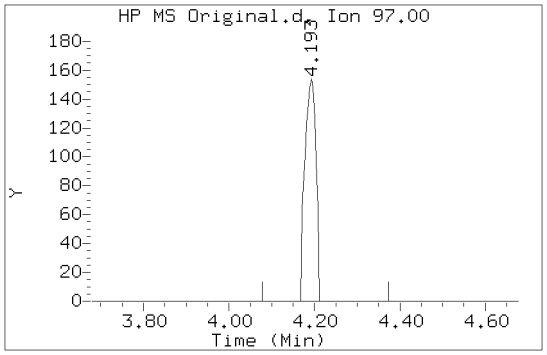
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firat
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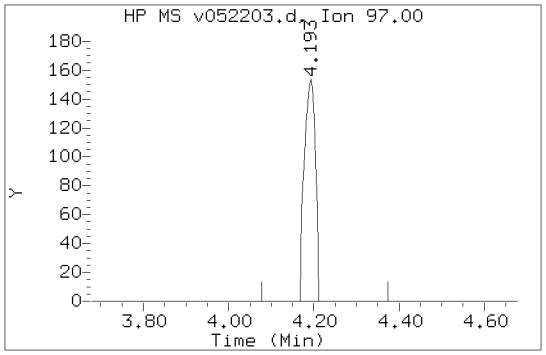
BEFORE

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AFTER

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23-May-2024
09:51
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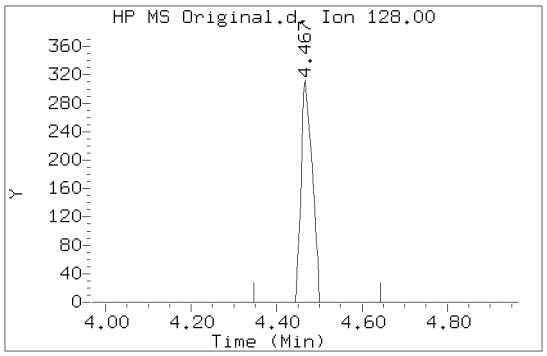


Bromochloromethane (74-97-5)

Reason Code:

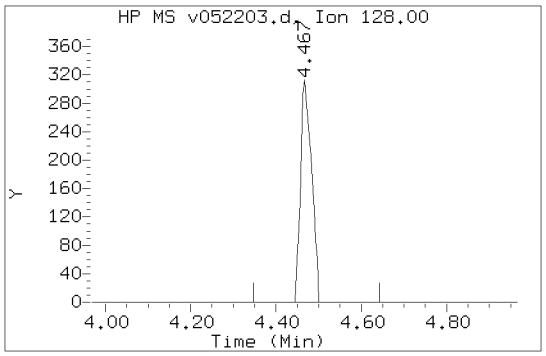
BEFORE

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23-May-2024
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AFTER

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572
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313
23-May-2024
09:51
firat
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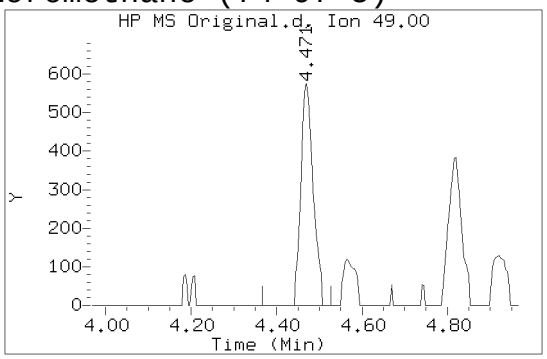


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromochloromethane (74-97-5)

BEFORE

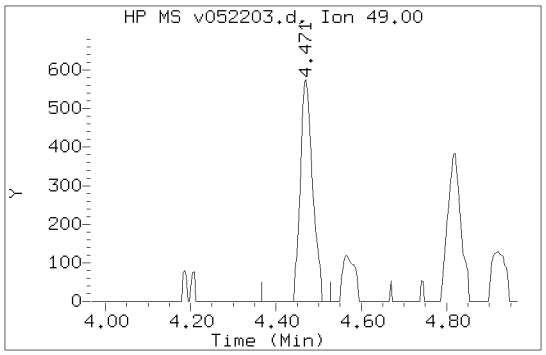
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23-May-2024
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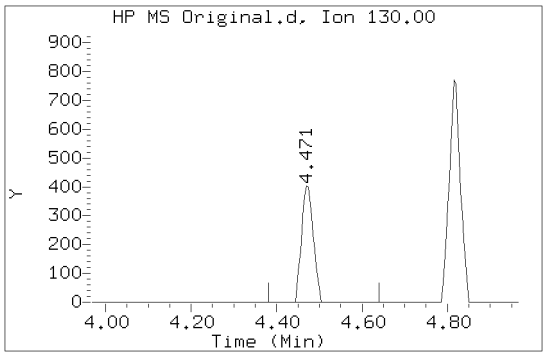
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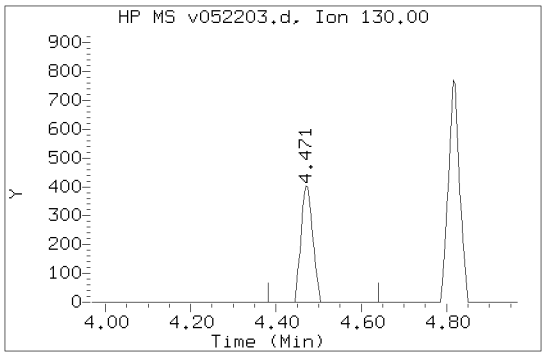
BEFORE

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AFTER

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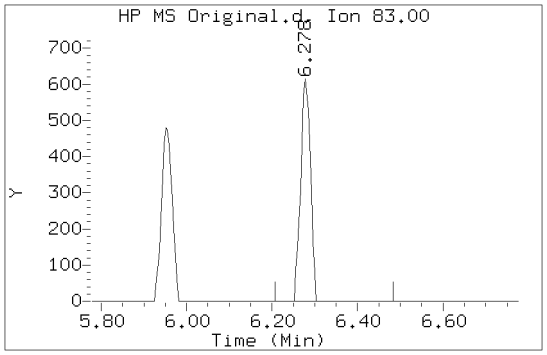


Bromodichloromethane (75-27-4)

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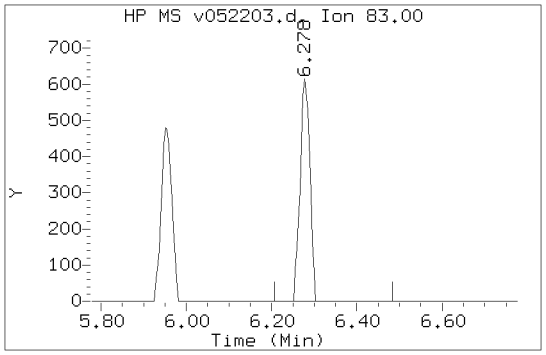
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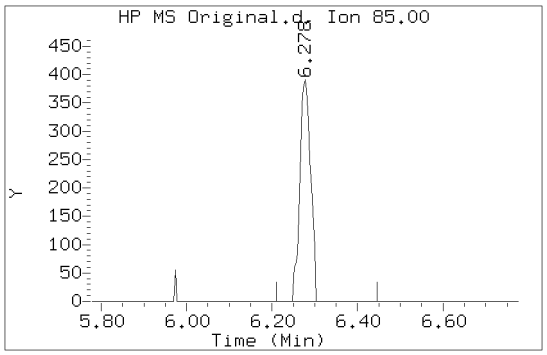
AFTER

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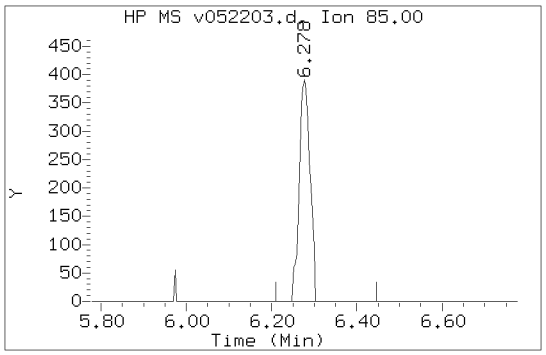
BEFORE

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AFTER

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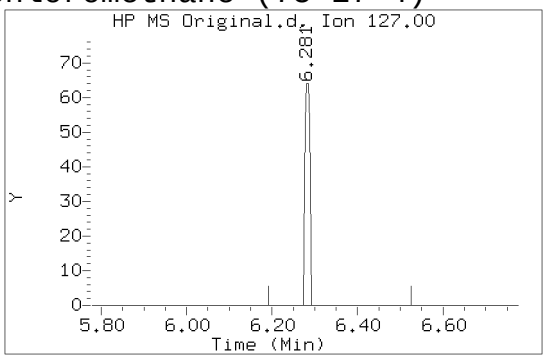


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

BEFORE

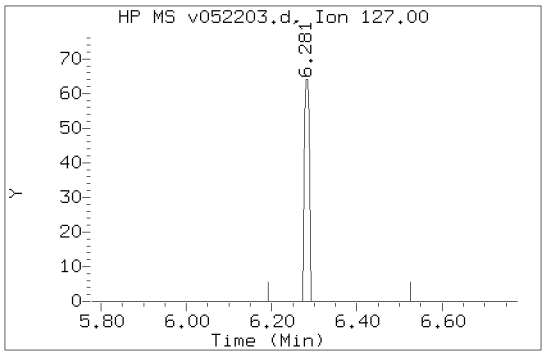
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AREA
52
HEIGHT
64
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

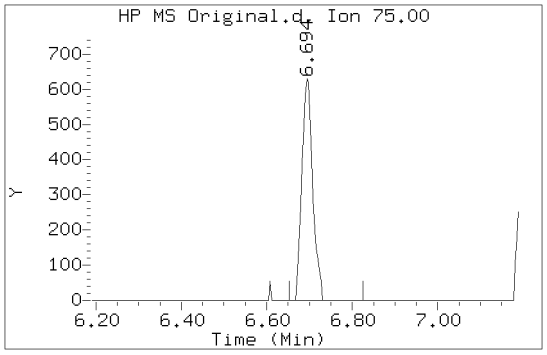
MASS
127
AREA
52
HEIGHT
64
23-May-2024
09:51
firat
tastan



cis-1,3-Dichloropropene (10061-01-5)

BEFORE

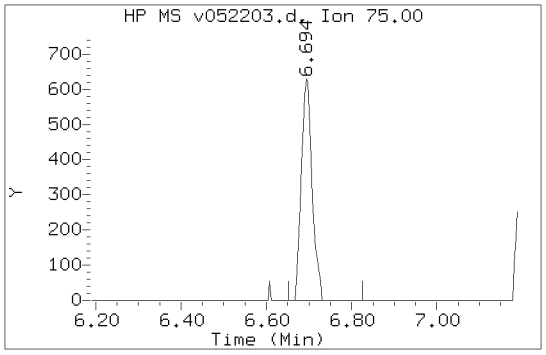
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AREA
1137
HEIGHT
630
23-May-2024
09:51
firat
tastan



Reason Code:

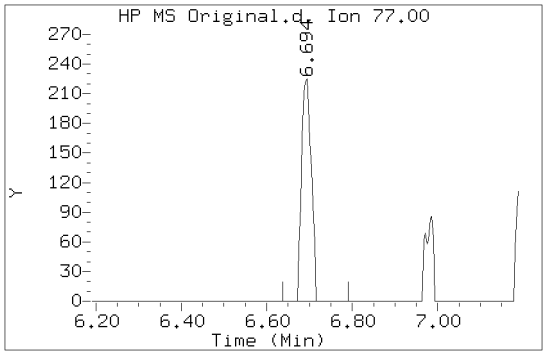
AFTER

MASS
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AREA
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HEIGHT
630
23-May-2024
09:51
firat
tastan



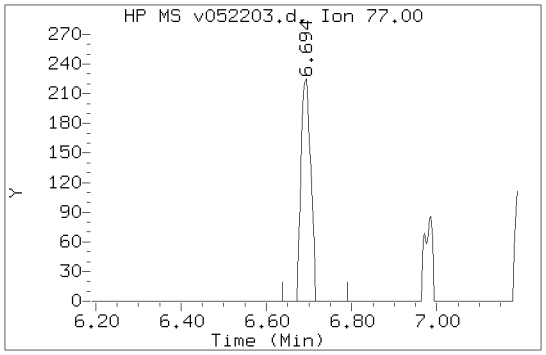
BEFORE

MASS
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AREA
365
HEIGHT
225
23-May-2024
09:51
firat
tastan



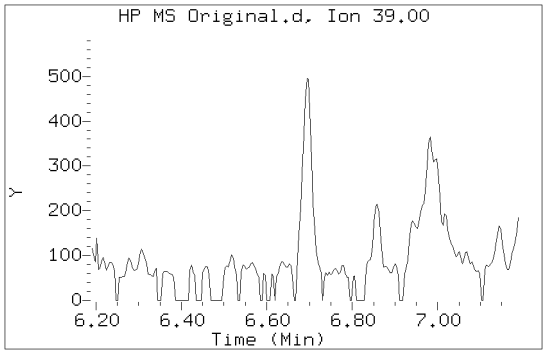
AFTER

MASS
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AREA
365
HEIGHT
225
23-May-2024
09:51
firat
tastan



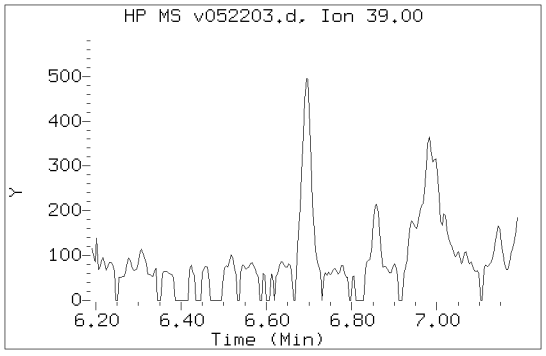
BEFORE

MASS
39
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



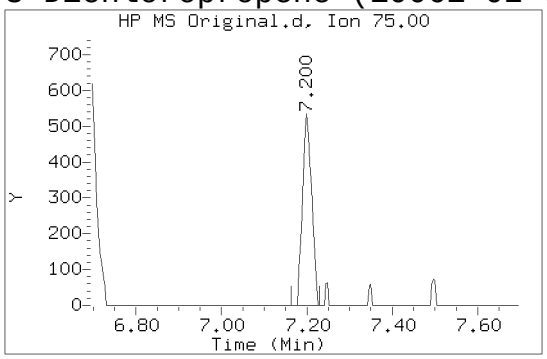
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

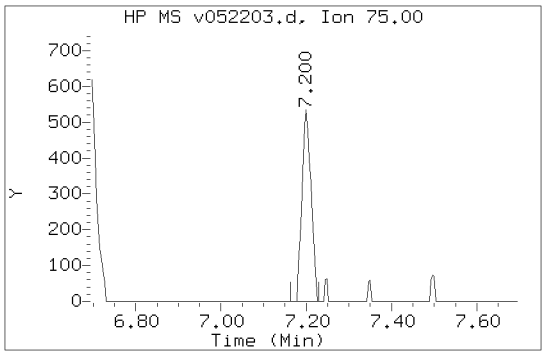
BEFORE

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AREA
806
HEIGHT
535
23-May-2024
09:51
firat
tastan



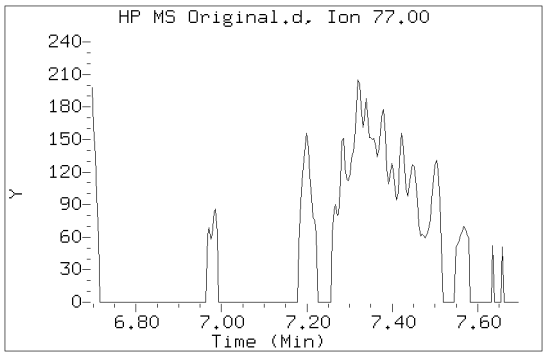
AFTER

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AREA
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HEIGHT
535
23-May-2024
09:51
firat
tastan



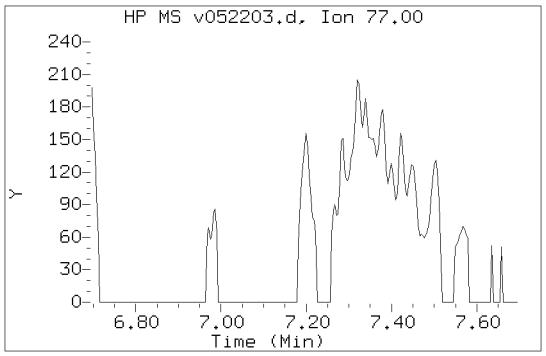
BEFORE

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77
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



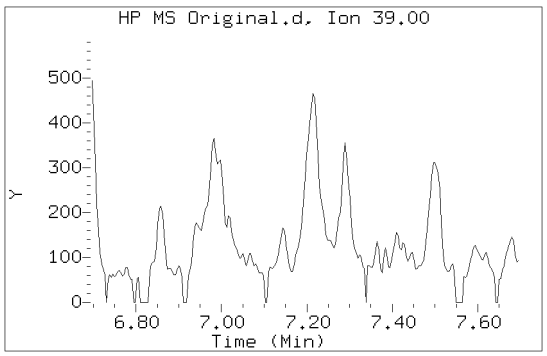
AFTER

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



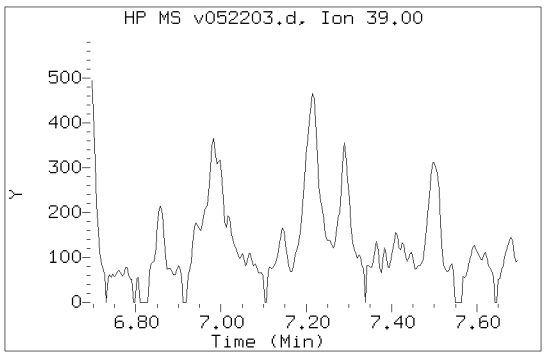
BEFORE

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

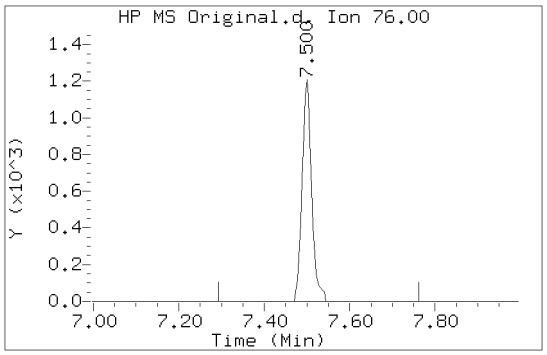


1,3-Dichloropropane (142-28-9)

Reason Code:

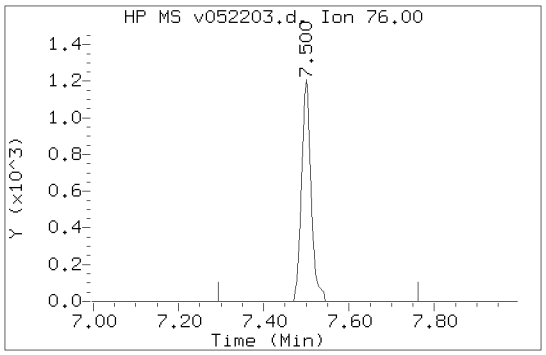
BEFORE

MASS
76
AREA
1916
HEIGHT
1208
23-May-2024
09:51
firat
tastan



AFTER

MASS
76
AREA
1916
HEIGHT
1208
23-May-2024
09:51
firat
tastan

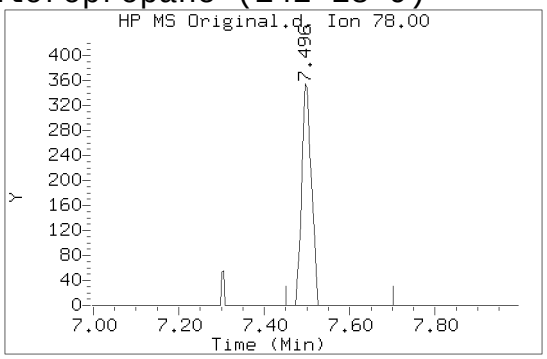


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,3-Dichloropropane (142-28-9)

BEFORE

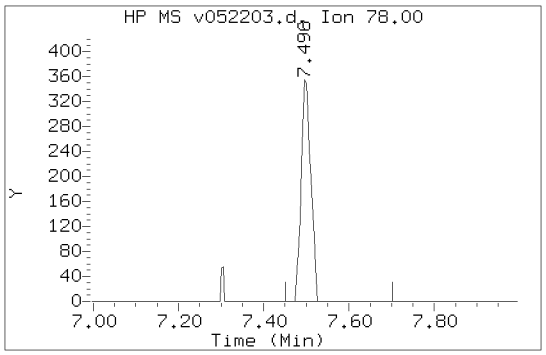
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78
AREA
572
HEIGHT
355
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

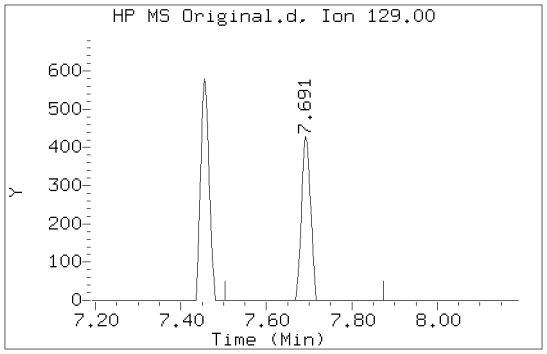
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78
AREA
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HEIGHT
355
23-May-2024
09:51
firat
tastan



Dibromochloromethane (124-48-1)

BEFORE

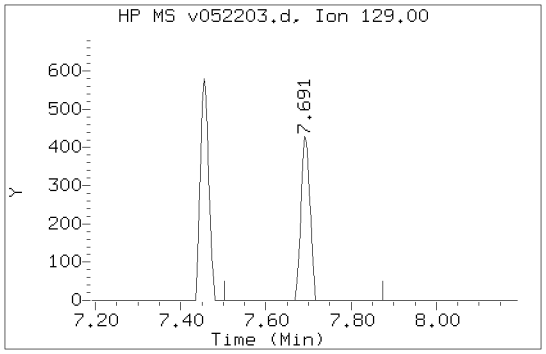
MASS
129
AREA
646
HEIGHT
429
23-May-2024
09:51
firat
tastan



Reason Code:

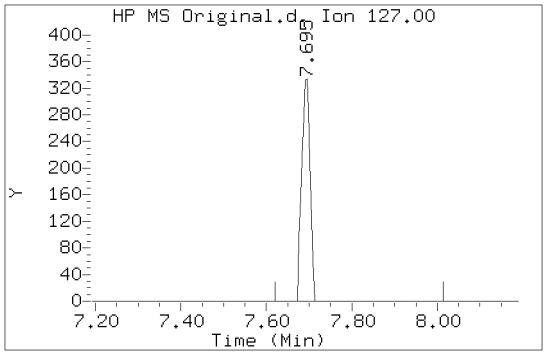
AFTER

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AREA
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HEIGHT
429
23-May-2024
09:51
firat
tastan



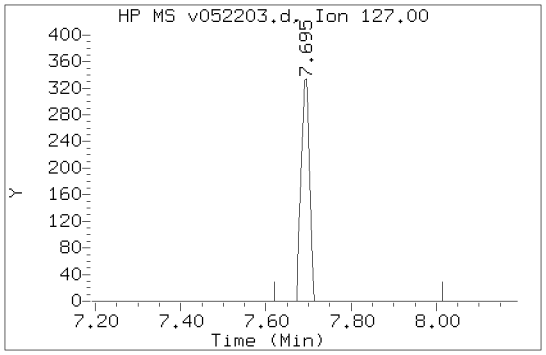
BEFORE

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AREA
470
HEIGHT
334
23-May-2024
09:51
firat
tastan



AFTER

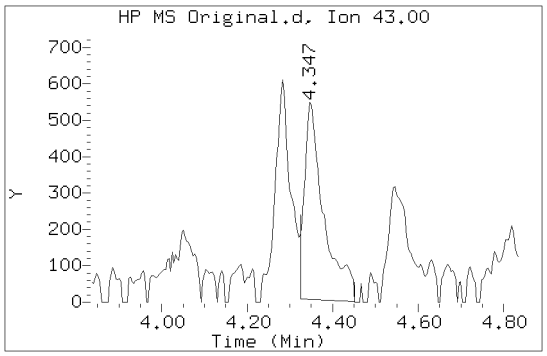
MASS
127
AREA
470
HEIGHT
334
23-May-2024
09:51
firat
tastan



Vinyl Acetate (108-05-4)

BEFORE

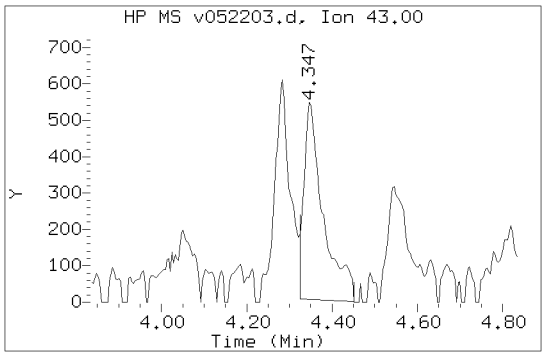
MASS
43
AREA
1730
HEIGHT
543
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

MASS
43
AREA
1730
HEIGHT
543
23-May-2024
09:51
firat
tastan



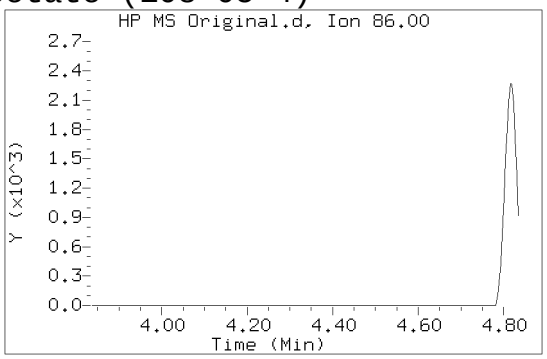
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

Reason Code:

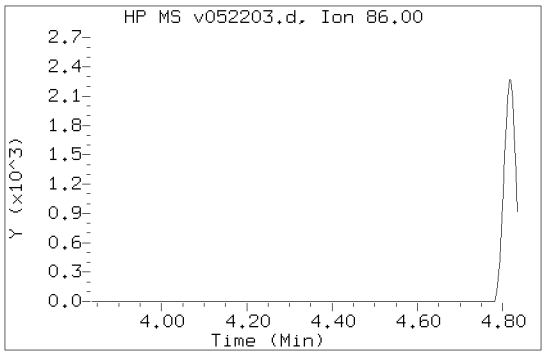
BEFORE

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

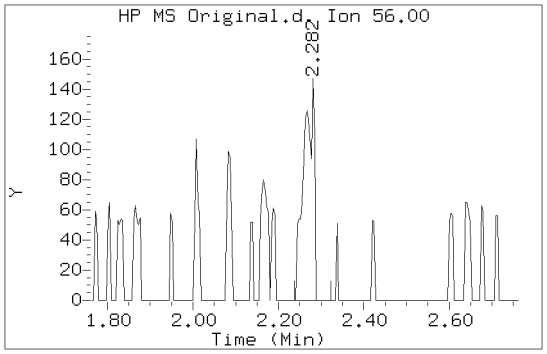


Acrolein (107-02-8)

Reason Code:

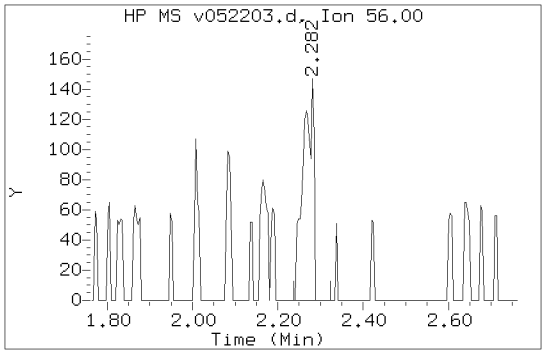
BEFORE

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AREA
256
HEIGHT
147
23-May-2024
09:51
firat
tastan



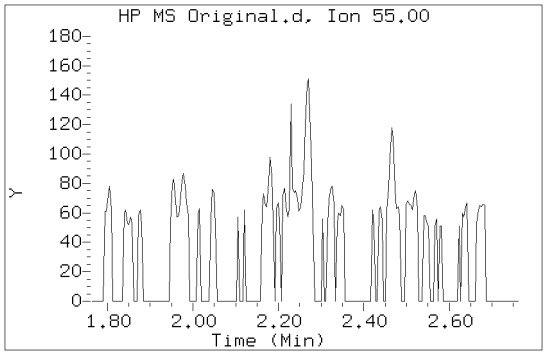
AFTER

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AREA
256
HEIGHT
147
23-May-2024
09:51
firat
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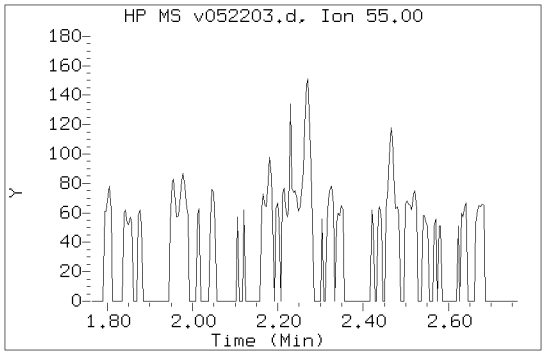
BEFORE

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55
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

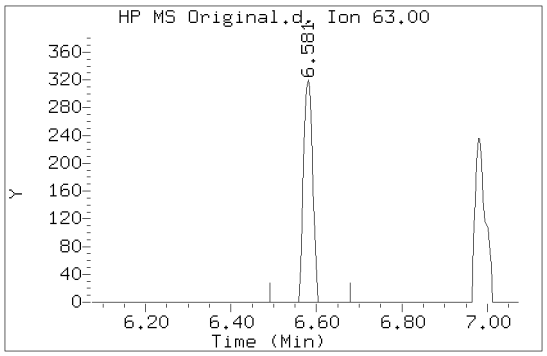


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

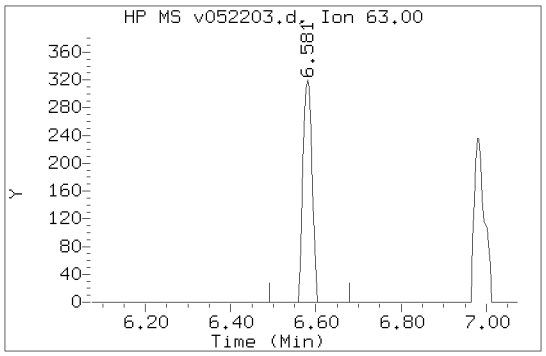
BEFORE

MASS
63
AREA
481
HEIGHT
320
23-May-2024
09:51
firat
tastan



AFTER

MASS
63
AREA
481
HEIGHT
320
23-May-2024
09:51
firat
tastan



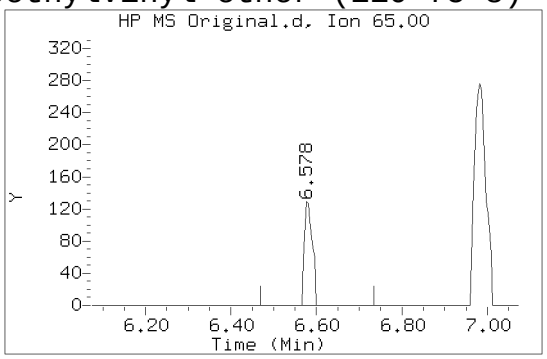
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

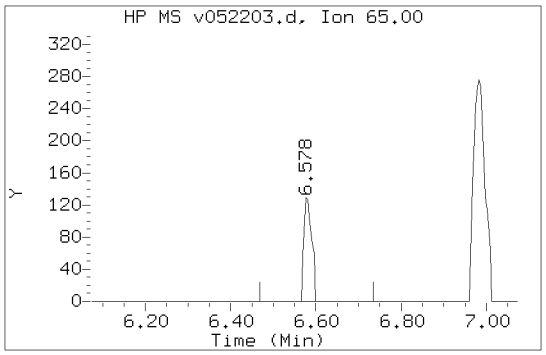
BEFORE

MASS
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AREA
165
HEIGHT
129
23-May-2024
09:51
firat
tastan



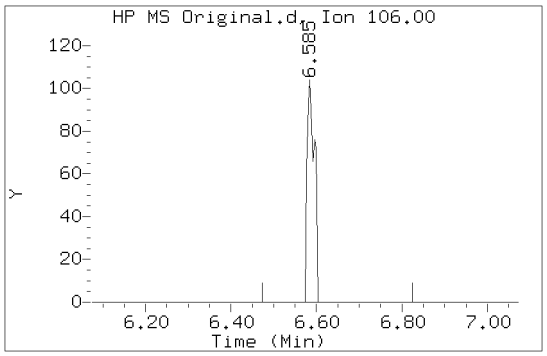
AFTER

MASS
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AREA
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HEIGHT
129
23-May-2024
09:51
firat
tastan



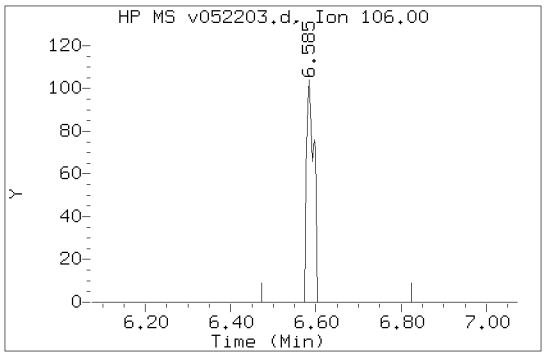
BEFORE

MASS
106
AREA
124
HEIGHT
104
23-May-2024
09:51
firat
tastan



AFTER

MASS
106
AREA
124
HEIGHT
104
23-May-2024
09:51
firat
tastan

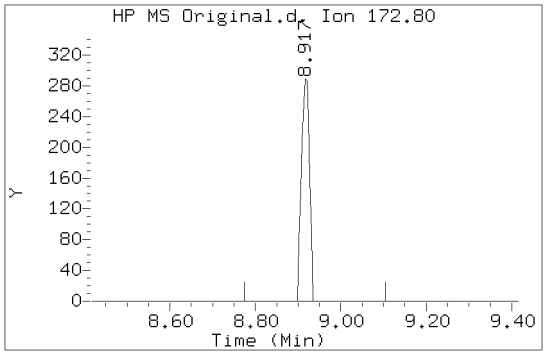


Bromoform (75-25-2)

Reason Code:

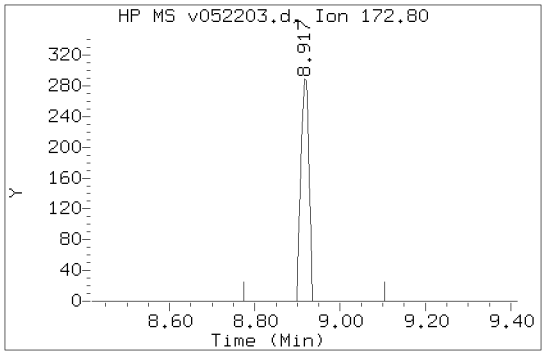
BEFORE

MASS
172.8
AREA
392
HEIGHT
289
23-May-2024
09:51
firat
tastan



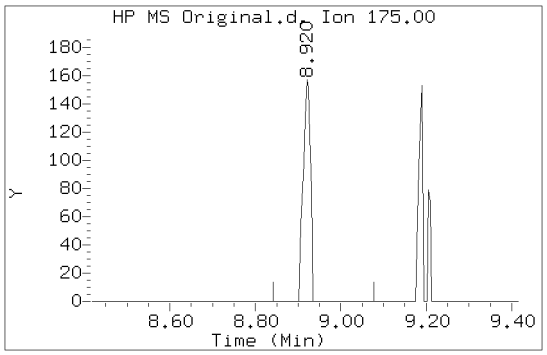
AFTER

MASS
172.8
AREA
392
HEIGHT
289
23-May-2024
09:51
firat
tastan



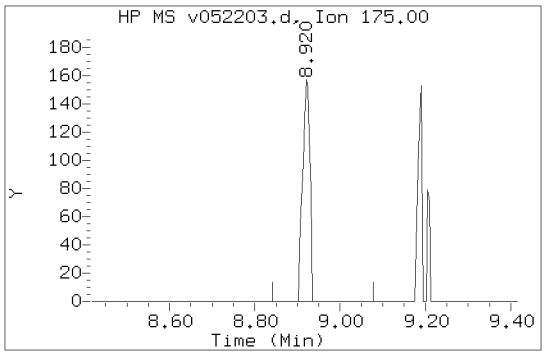
BEFORE

MASS
175
AREA
192
HEIGHT
157
23-May-2024
09:51
firat
tastan



AFTER

MASS
175
AREA
192
HEIGHT
157
23-May-2024
09:51
firat
tastan



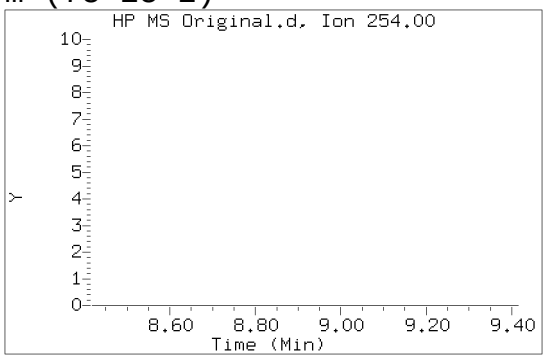
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

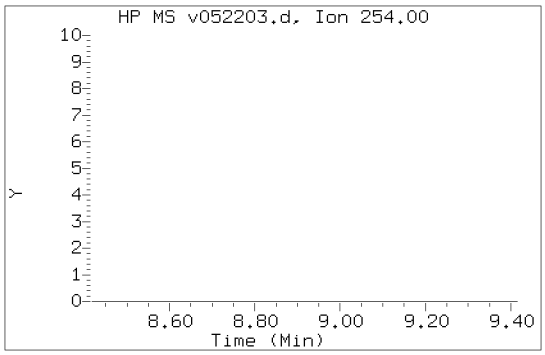
BEFORE

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254
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

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23-May-2024
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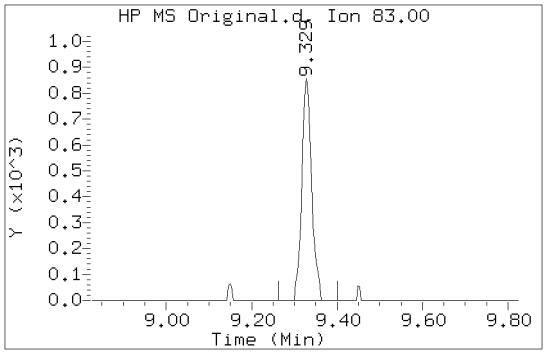


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

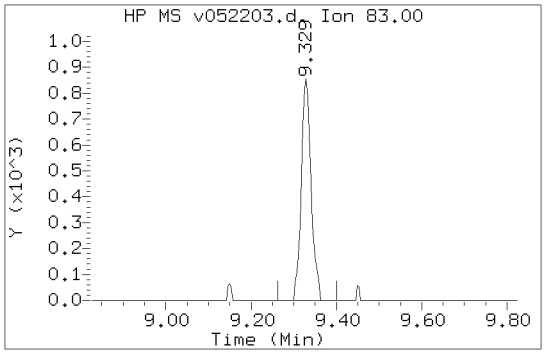
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83
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1392
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856
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09:51
firat
tastan



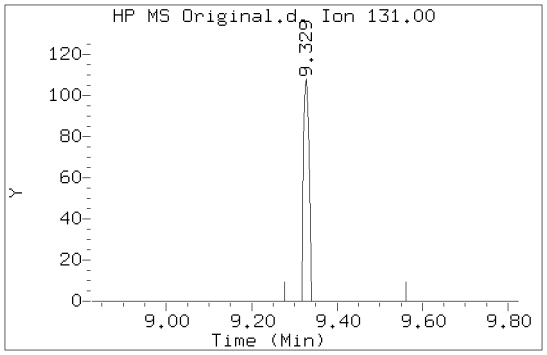
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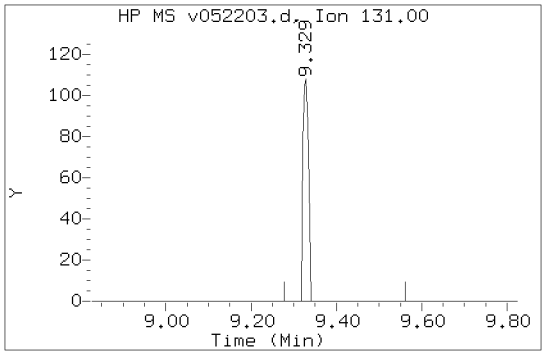
BEFORE

MASS
131
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97
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108
23-May-2024
09:51
firat
tastan



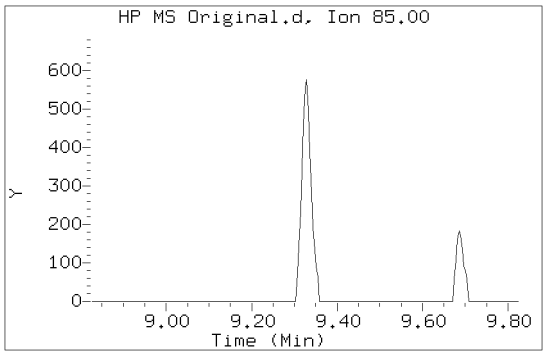
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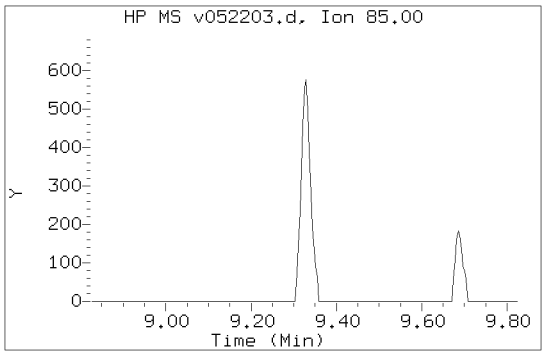
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AFTER

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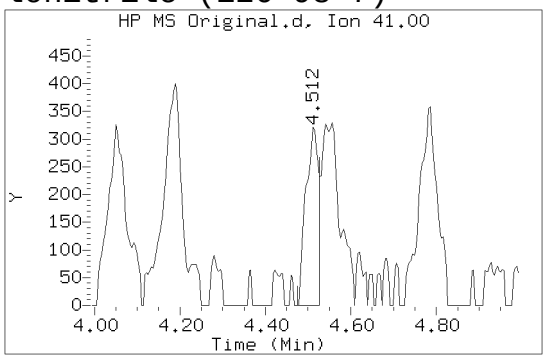


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

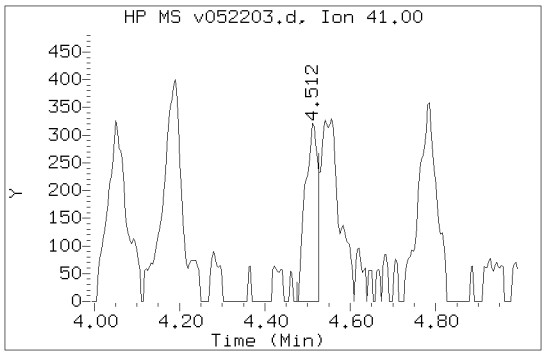
Methacrylonitrile (126-98-7)

Reason Code:

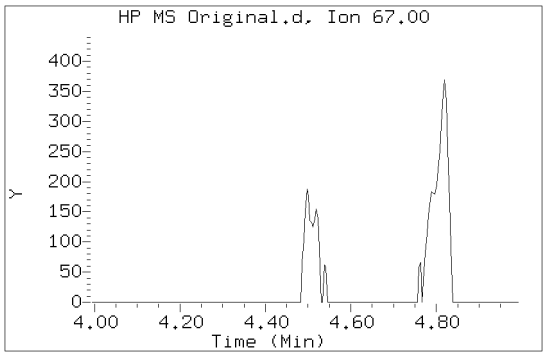
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HEIGHT
322
23-May-2024
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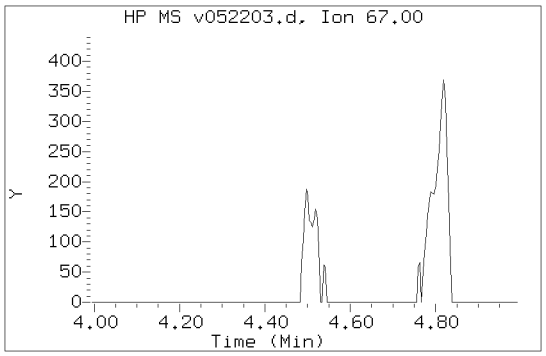
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666
HEIGHT
322
23-May-2024
09:51
firat
tastan



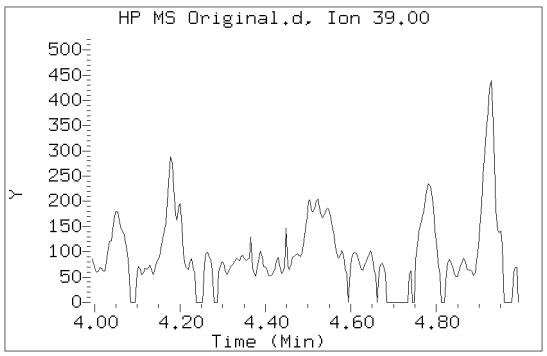
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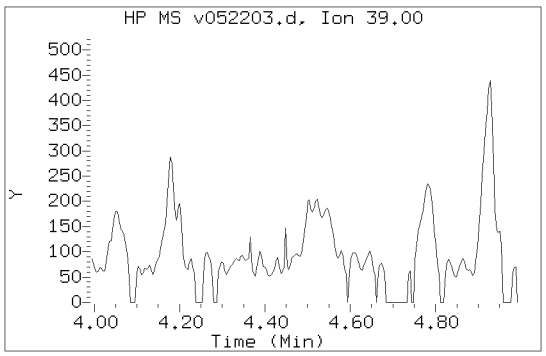
AFTER
MASS
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HEIGHT
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23-May-2024
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BEFORE
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



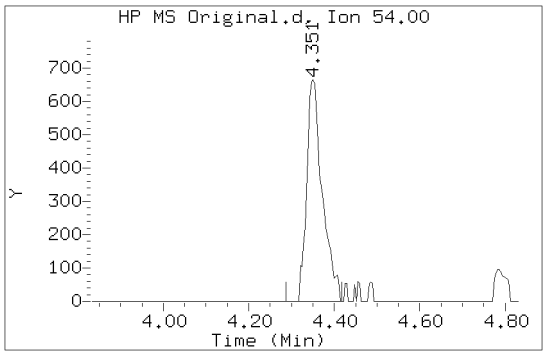
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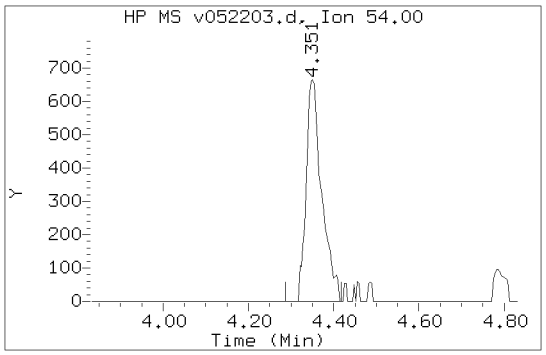
Propionitrile (107-12-0)

Reason Code:

BEFORE
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54
AREA
1689
HEIGHT
665
23-May-2024
09:51
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AFTER
MASS
54
AREA
1689
HEIGHT
665
23-May-2024
09:51
firat
tastan



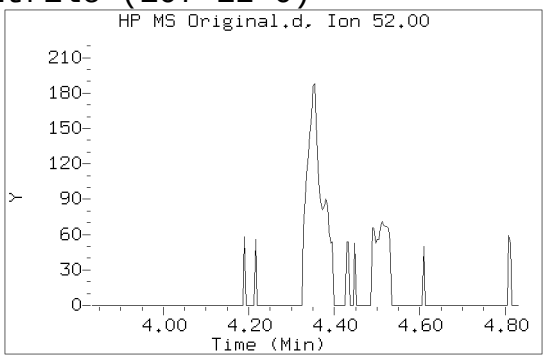
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

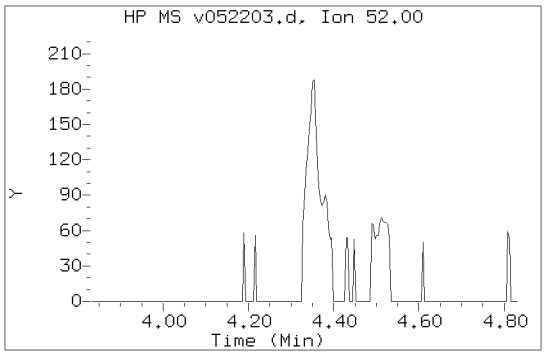
BEFORE

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



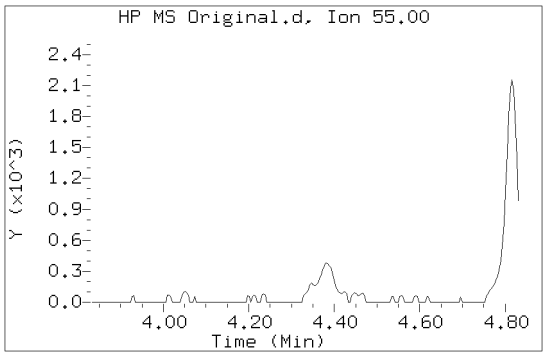
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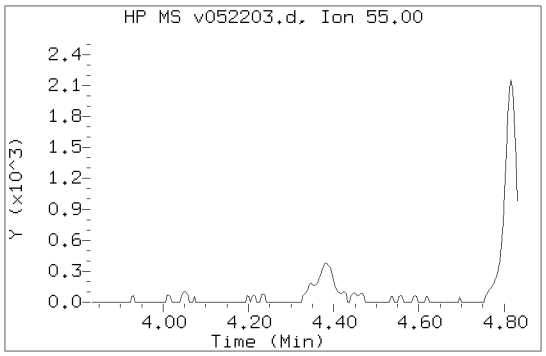
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AFTER

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HEIGHT
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23-May-2024
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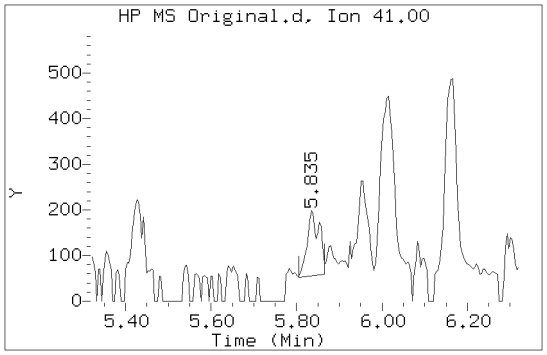


Methyl Methacrylate (80-62-6)

Reason Code:

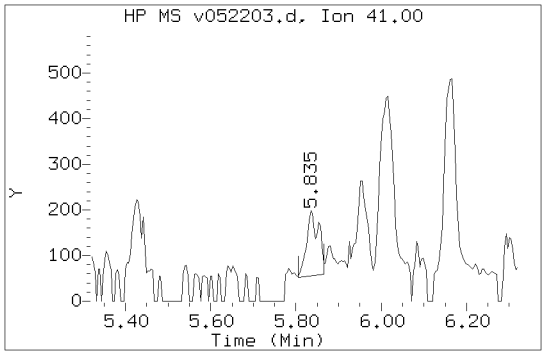
BEFORE

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AREA
284
HEIGHT
143
23-May-2024
09:51
firat
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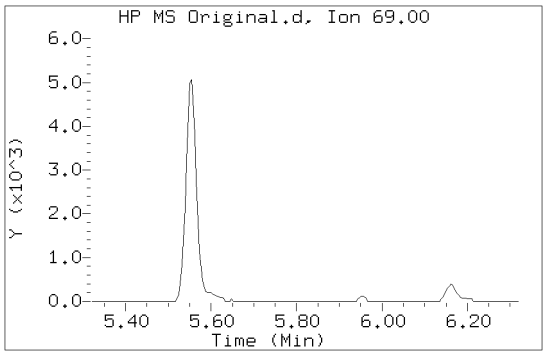
AFTER

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AREA
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HEIGHT
143
23-May-2024
09:51
firat
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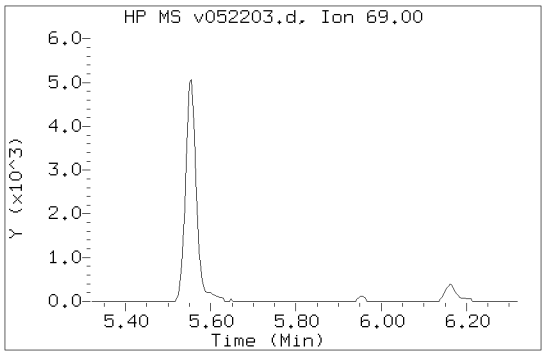
BEFORE

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HEIGHT
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23-May-2024
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AFTER

MASS
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HEIGHT
0
23-May-2024
09:51
firat
tastan



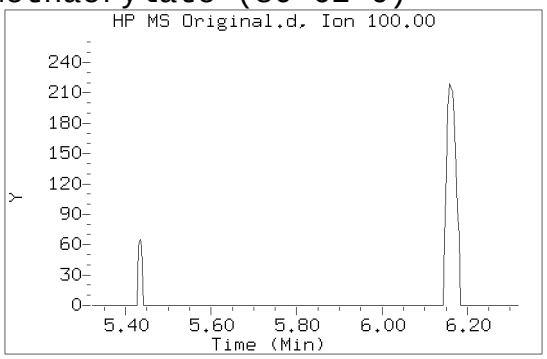
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

Reason Code:

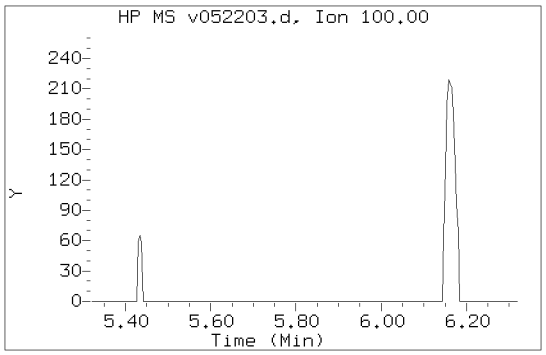
BEFORE

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HEIGHT
0
23-May-2024
09:51
firat
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AFTER

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

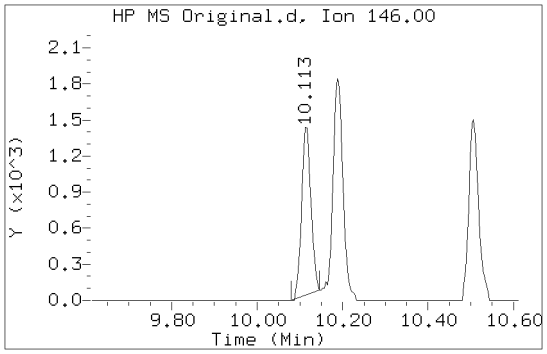


1,3-Dichlorobenzene (541-73-1)

Reason Code:

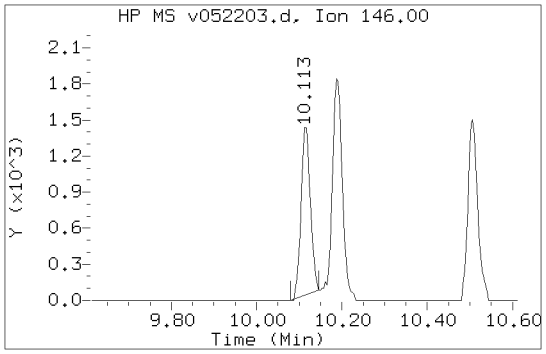
BEFORE

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HEIGHT
1398
23-May-2024
09:51
firat
tastan



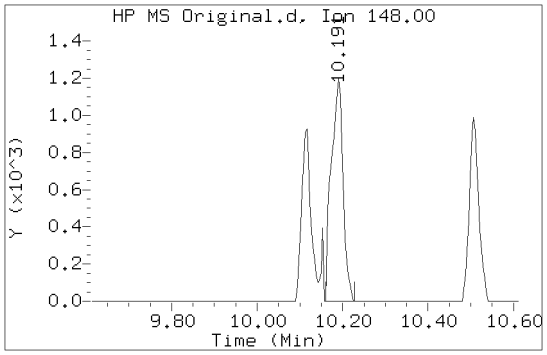
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09:51
firat
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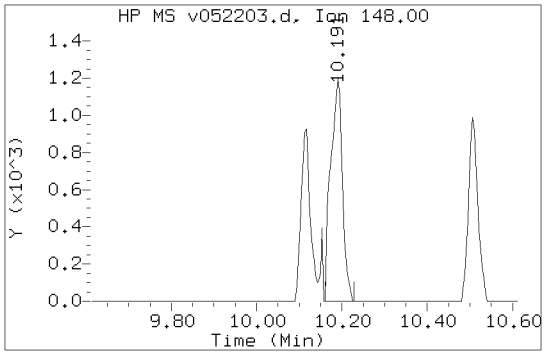
BEFORE

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HEIGHT
1196
23-May-2024
09:51
firat
tastan



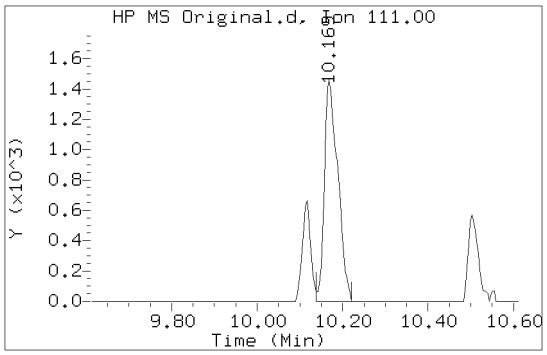
AFTER

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2283
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23-May-2024
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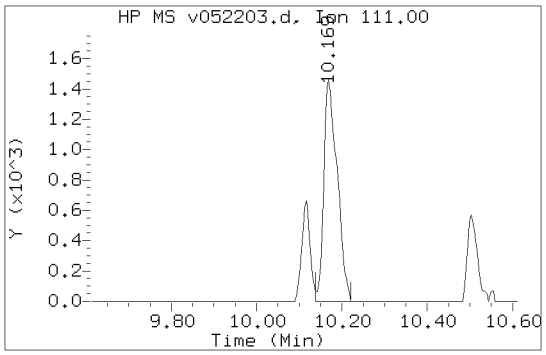
BEFORE

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3179
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1461
23-May-2024
09:51
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tastan



AFTER

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111
AREA
3179
HEIGHT
1461
23-May-2024
09:51
firat
tastan



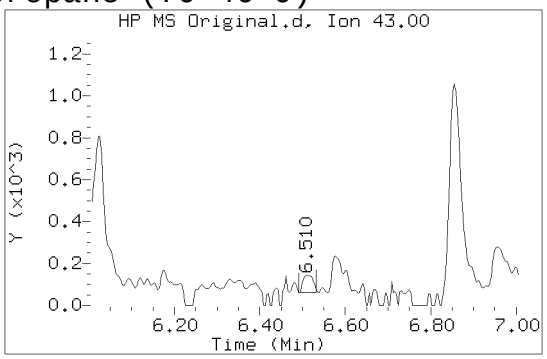
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Nitropropane (79-46-9)

Reason Code:

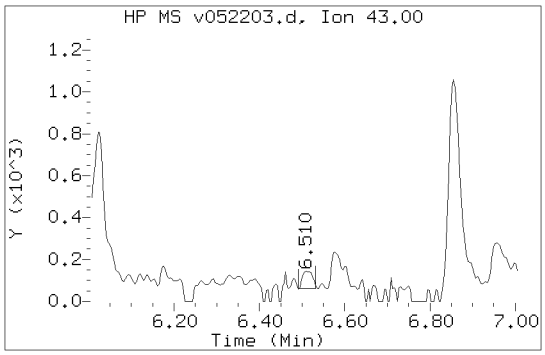
BEFORE

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AREA
138
HEIGHT
83
23-May-2024
09:51
firat
tastan



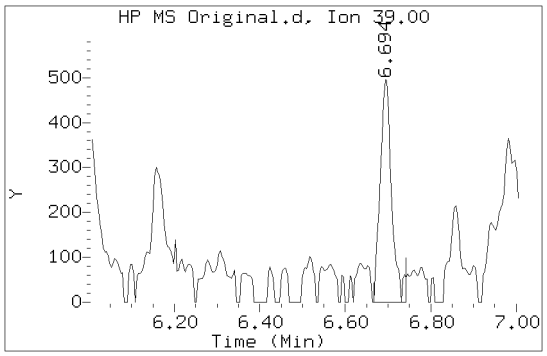
AFTER

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23-May-2024
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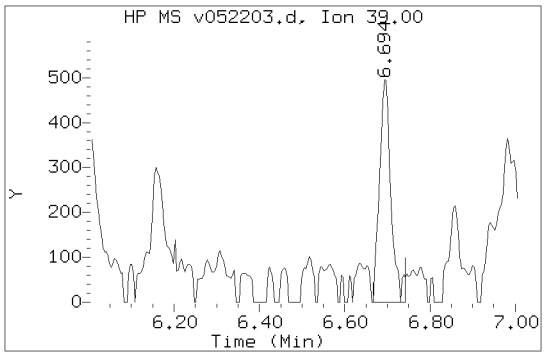
BEFORE

MASS
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AREA
933
HEIGHT
495
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
933
HEIGHT
495
23-May-2024
09:51
firat
tastan

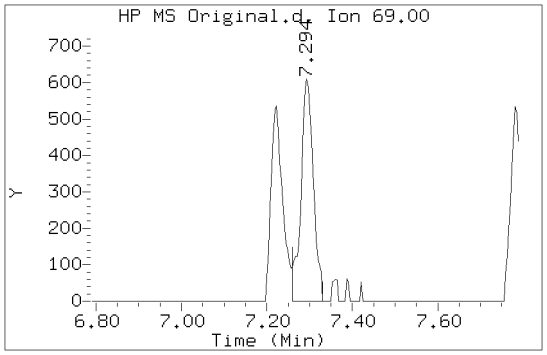


Ethyl Methacrylate (97-63-2)

Reason Code:

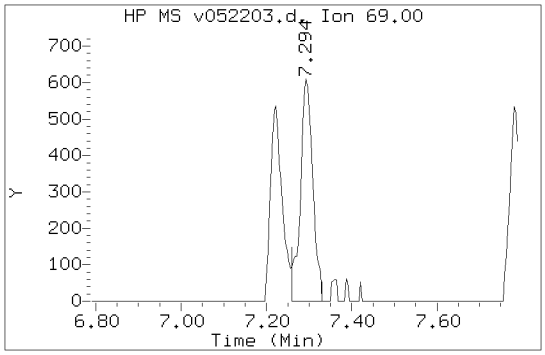
BEFORE

MASS
69
AREA
1247
HEIGHT
610
23-May-2024
09:51
firat
tastan



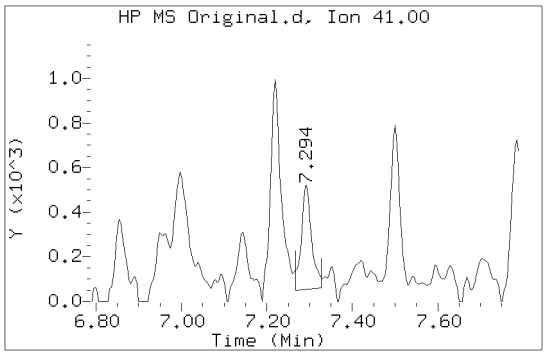
AFTER

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1247
HEIGHT
610
23-May-2024
09:51
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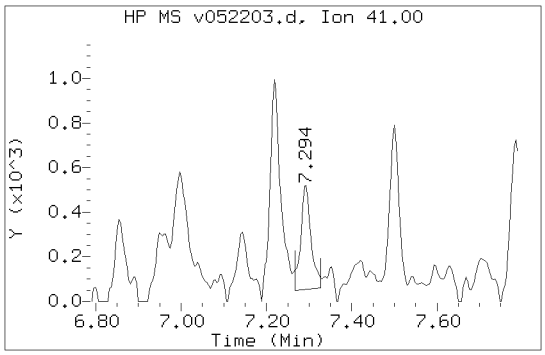
BEFORE

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AREA
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HEIGHT
467
23-May-2024
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AFTER

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802
HEIGHT
467
23-May-2024
09:51
firat
tastan



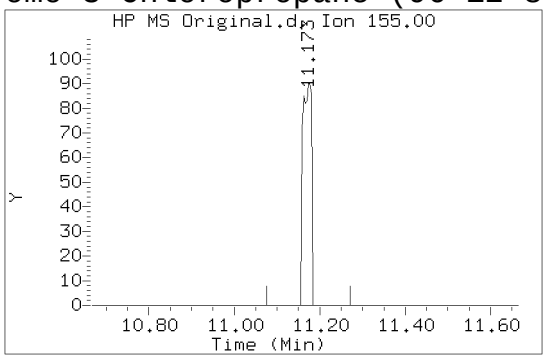
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

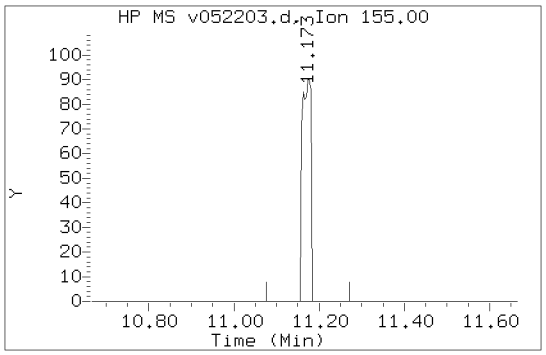
BEFORE

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90
23-May-2024
09:51
firat
tastan



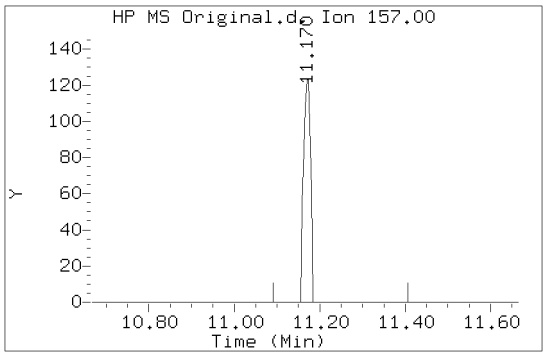
AFTER

MASS
155
AREA
132
HEIGHT
90
23-May-2024
09:51
firat
tastan



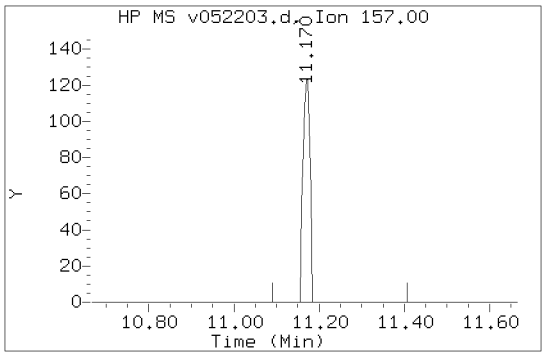
BEFORE

MASS
157
AREA
146
HEIGHT
123
23-May-2024
09:51
firat
tastan



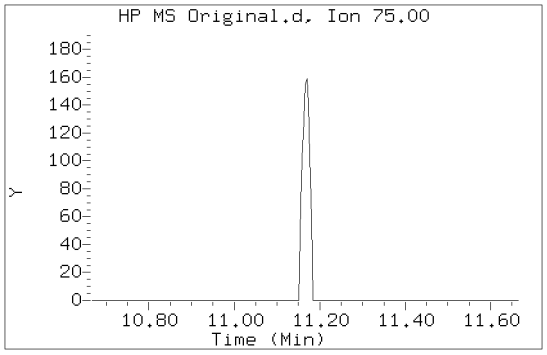
AFTER

MASS
157
AREA
146
HEIGHT
123
23-May-2024
09:51
firat
tastan



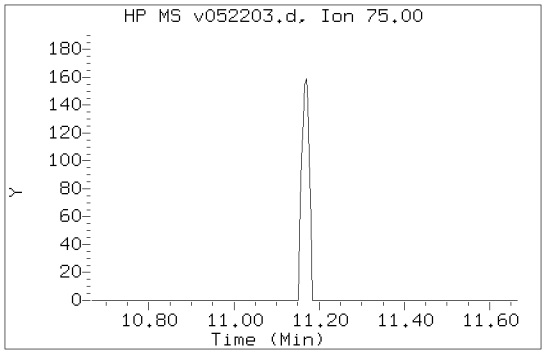
BEFORE

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

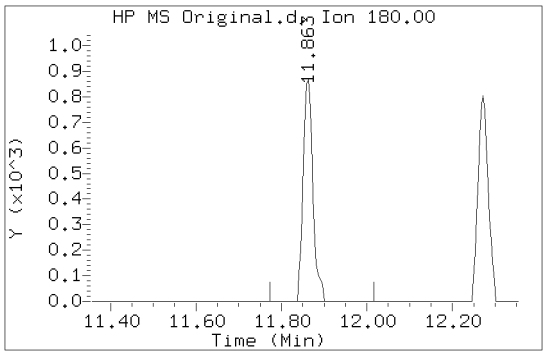


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

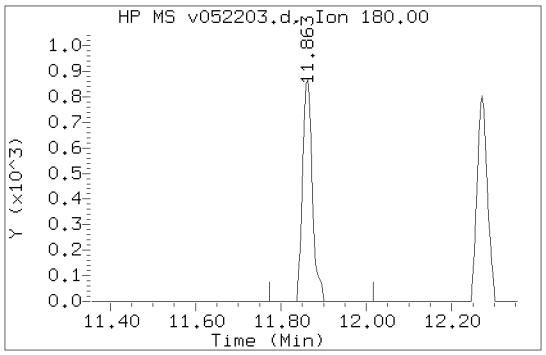
BEFORE

MASS
180
AREA
1398
HEIGHT
867
23-May-2024
09:51
firat
tastan



AFTER

MASS
180
AREA
1398
HEIGHT
867
23-May-2024
09:51
firat
tastan

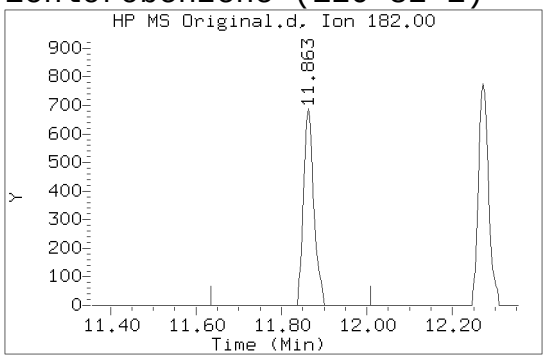


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

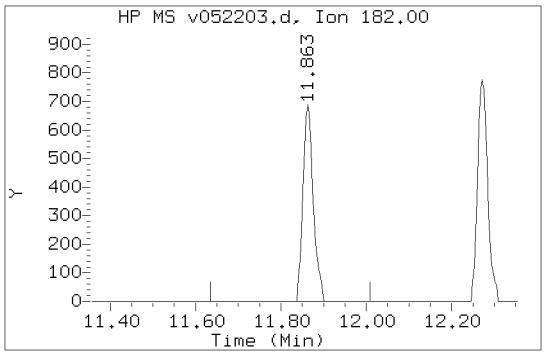
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

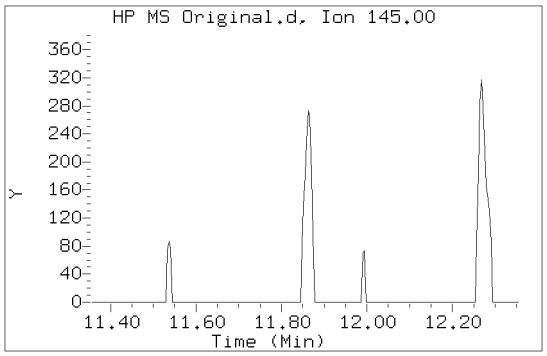
BEFORE
MASS
182
AREA
1169
HEIGHT
689
23-May-2024
09:51
firat
tastan



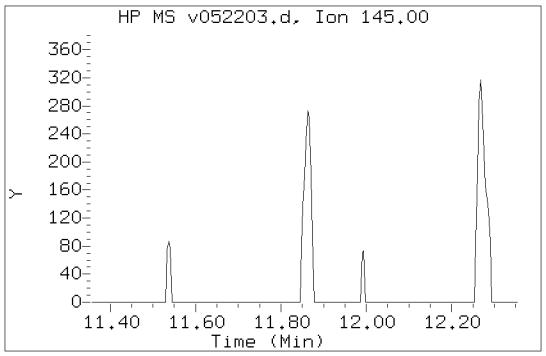
AFTER
MASS
182
AREA
1169
HEIGHT
689
23-May-2024
09:51
firat
tastan



BEFORE
MASS
145
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



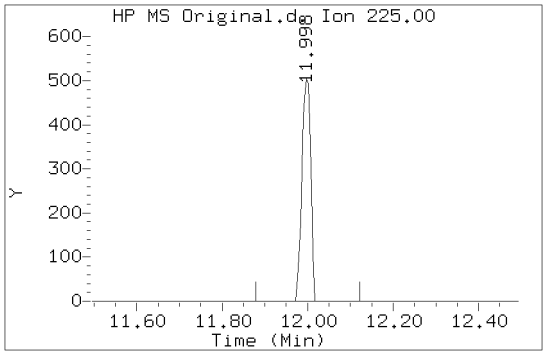
AFTER
MASS
145
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



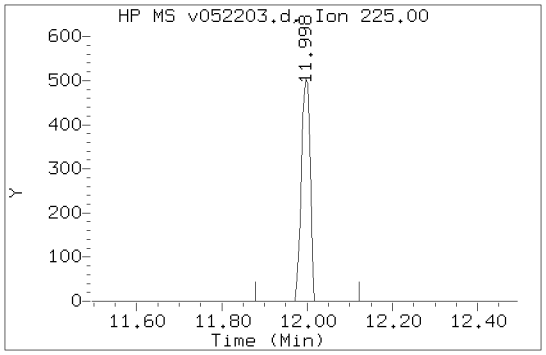
Hexachlorobutadiene (87-68-3)

Reason Code:

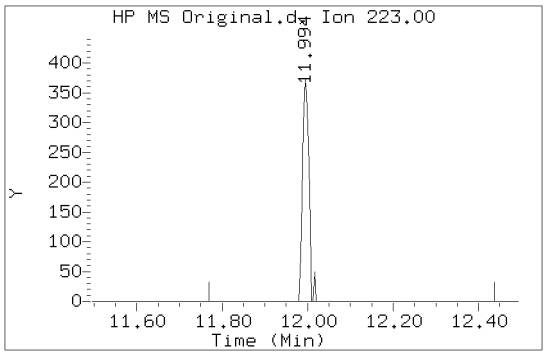
BEFORE
MASS
225
AREA
739
HEIGHT
504
23-May-2024
09:51
firat
tastan



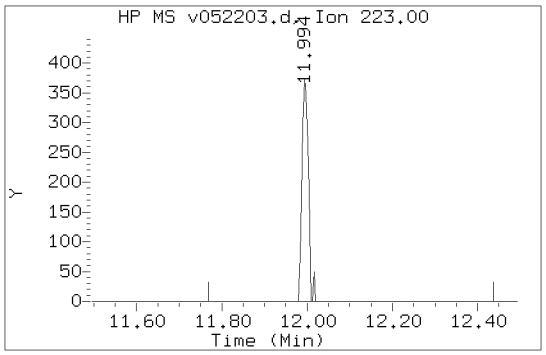
AFTER
MASS
225
AREA
739
HEIGHT
504
23-May-2024
09:51
firat
tastan



BEFORE
MASS
223
AREA
397
HEIGHT
372
23-May-2024
09:51
firat
tastan



AFTER
MASS
223
AREA
397
HEIGHT
372
23-May-2024
09:51
firat
tastan



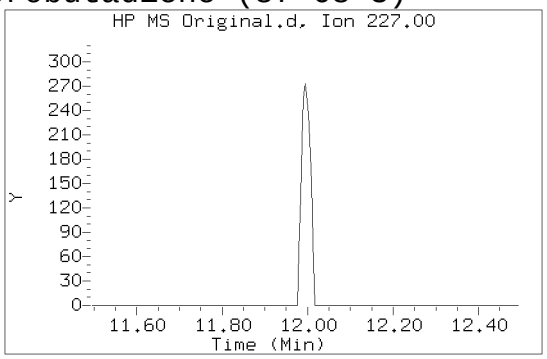
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

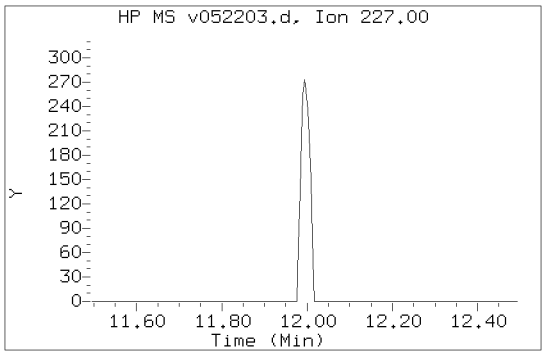
BEFORE

MASS
227
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
227
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

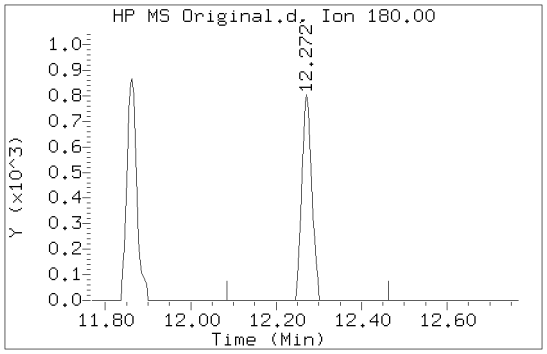


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

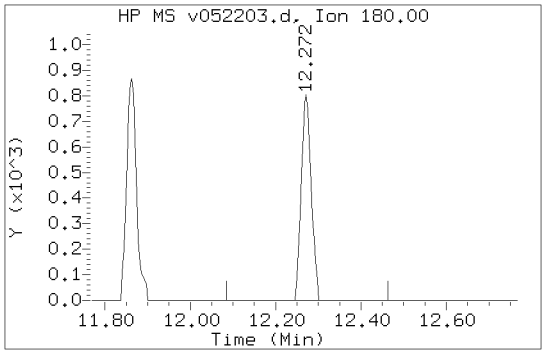
BEFORE

MASS
180
AREA
1339
HEIGHT
804
23-May-2024
09:51
firat
tastan



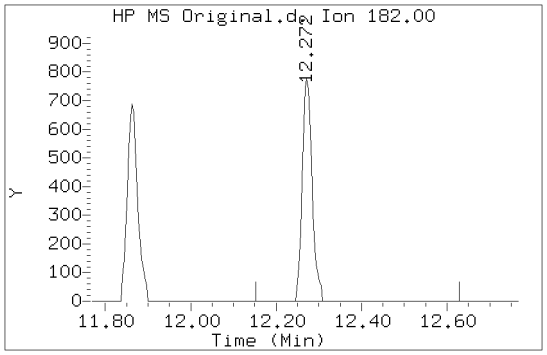
AFTER

MASS
180
AREA
1339
HEIGHT
804
23-May-2024
09:51
firat
tastan



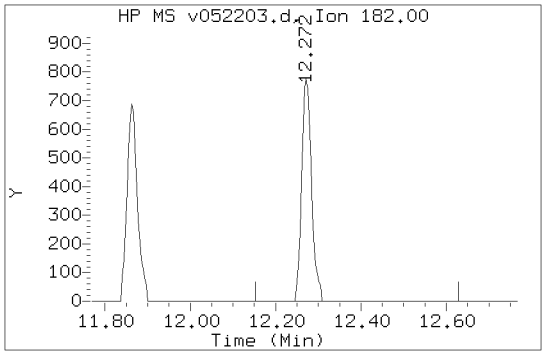
BEFORE

MASS
182
AREA
1281
HEIGHT
776
23-May-2024
09:51
firat
tastan



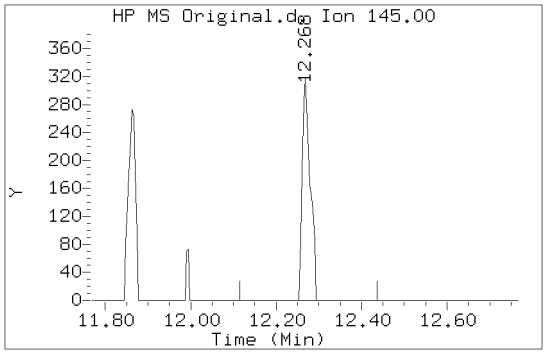
AFTER

MASS
182
AREA
1281
HEIGHT
776
23-May-2024
09:51
firat
tastan



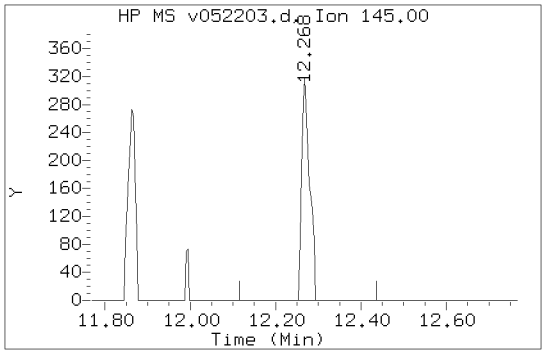
BEFORE

MASS
145
AREA
426
HEIGHT
317
23-May-2024
09:51
firat
tastan



AFTER

MASS
145
AREA
426
HEIGHT
317
23-May-2024
09:51
firat
tastan

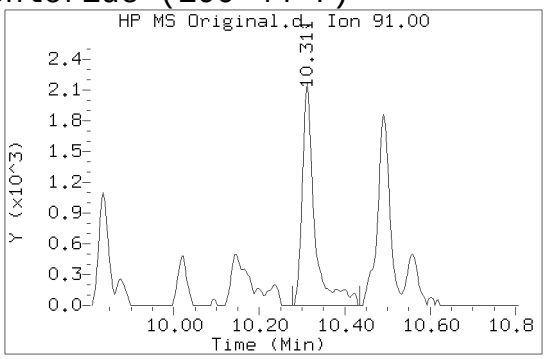


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

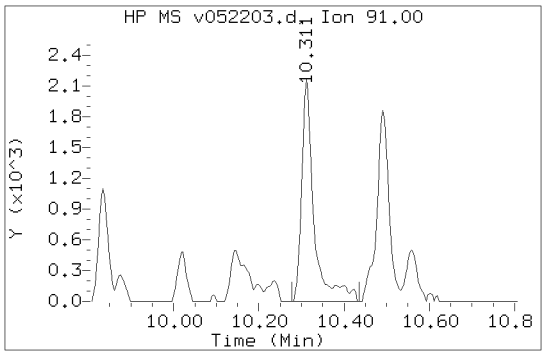
Benzyl Chloride (100-44-7)

Reason Code:

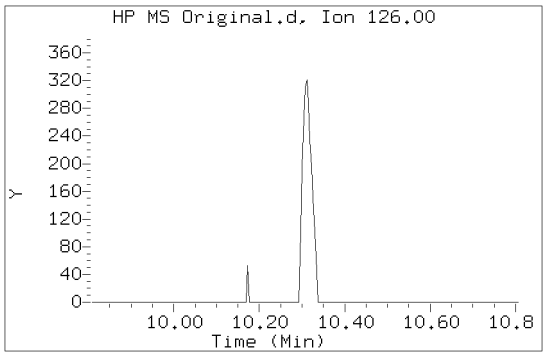
BEFORE
MASS
91
AREA
4426
HEIGHT
2162
23-May-2024
09:51
firat
tastan



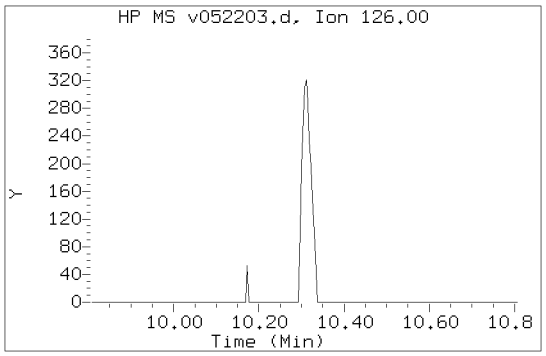
AFTER
MASS
91
AREA
4426
HEIGHT
2162
23-May-2024
09:51
firat
tastan



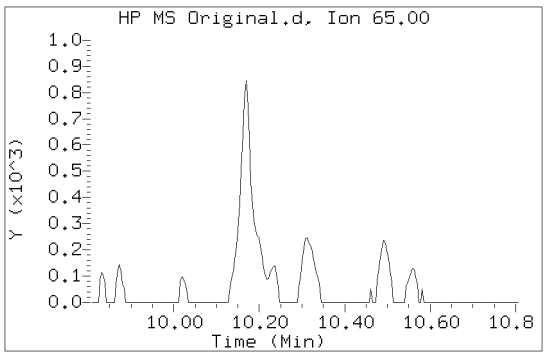
BEFORE
MASS
126
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



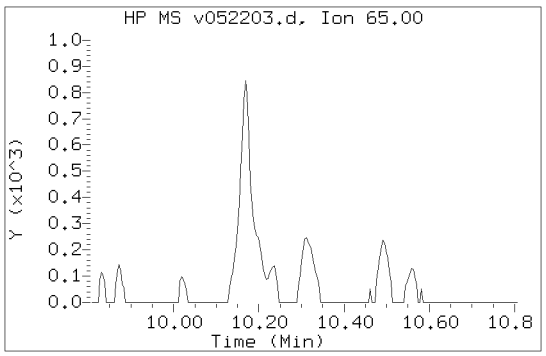
AFTER
MASS
126
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
65
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



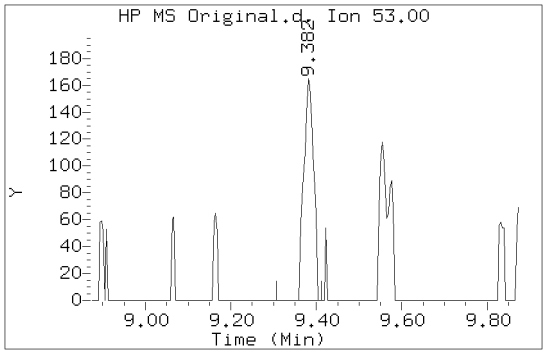
AFTER
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65
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



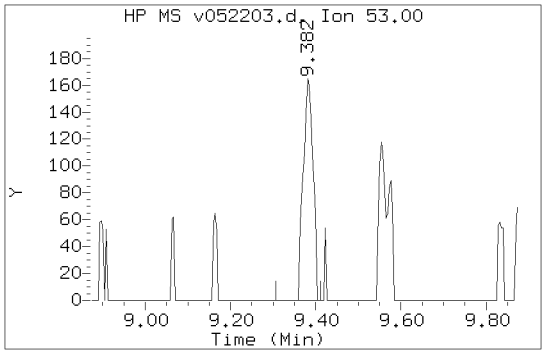
trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

BEFORE
MASS
53
AREA
267
HEIGHT
165
23-May-2024
09:51
firat
tastan



AFTER
MASS
53
AREA
267
HEIGHT
165
23-May-2024
09:51
firat
tastan



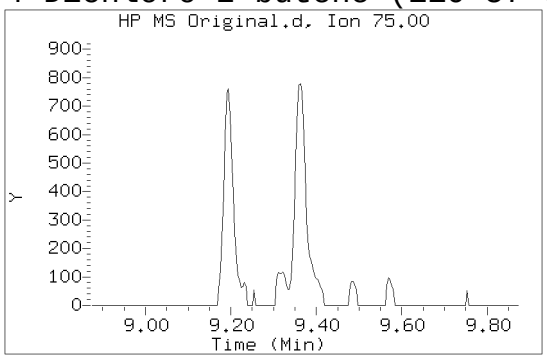
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

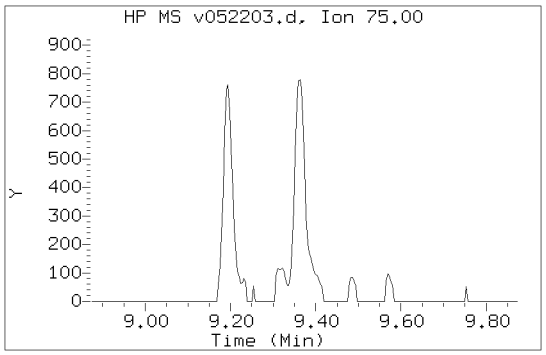
BEFORE

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

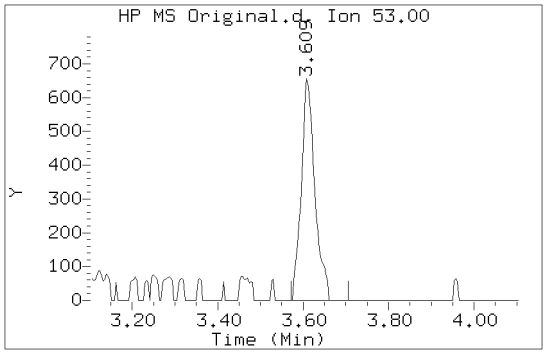


Chloroprene (126-99-8)

Reason Code:

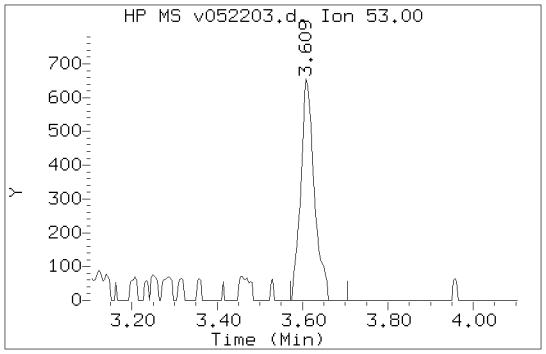
BEFORE

MASS
53
AREA
1472
HEIGHT
656
23-May-2024
09:51
firat
tastan



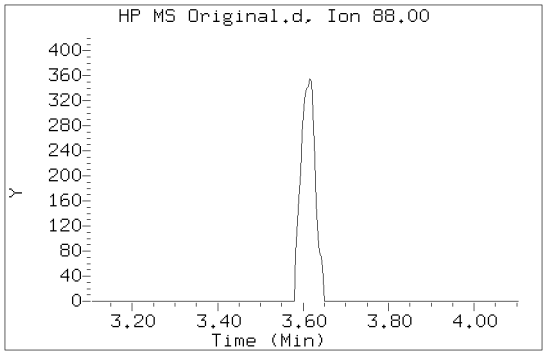
AFTER

MASS
53
AREA
1472
HEIGHT
656
23-May-2024
09:51
firat
tastan



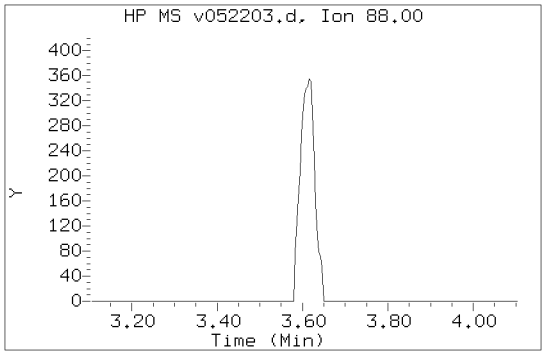
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

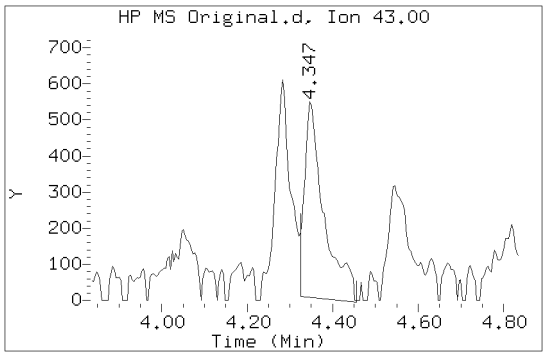


Ethyl Acetate (141-78-6)

Reason Code:

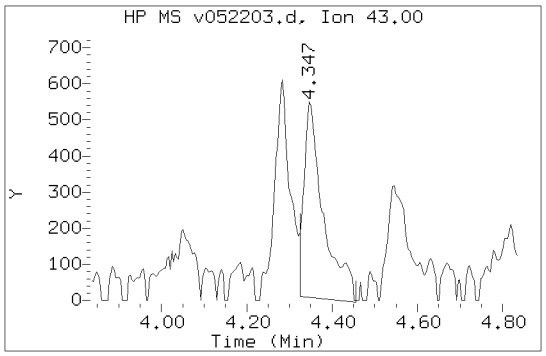
BEFORE

MASS
43
AREA
1741
HEIGHT
541
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
1741
HEIGHT
541
23-May-2024
09:51
firat
tastan



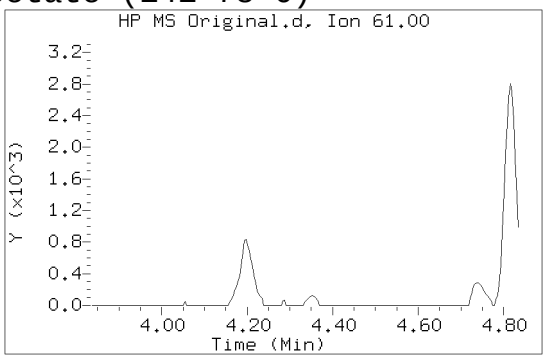
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

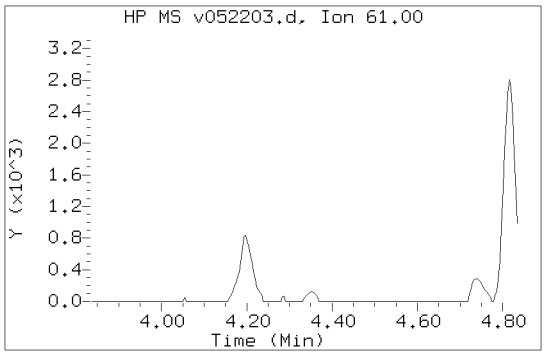
BEFORE

MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



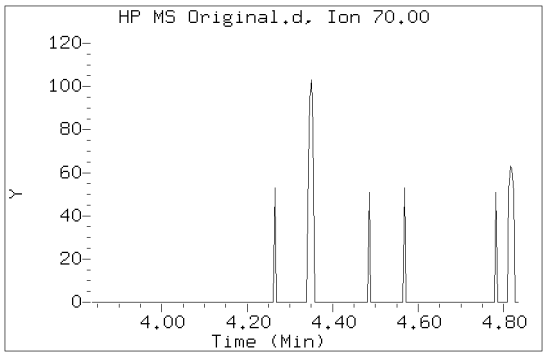
AFTER

MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



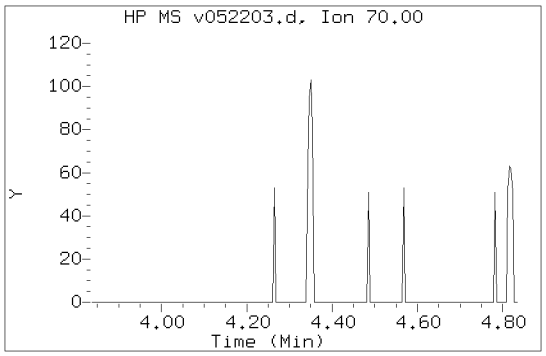
BEFORE

MASS
70
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

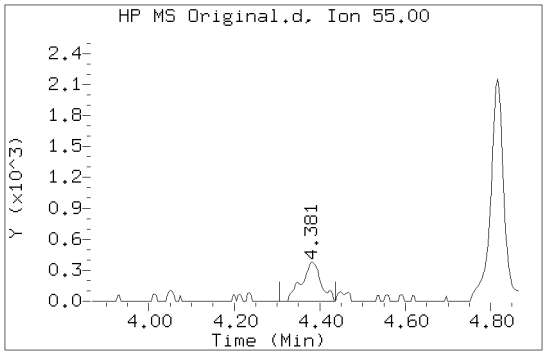


Methyl Acrylate (96-33-3)

Reason Code:

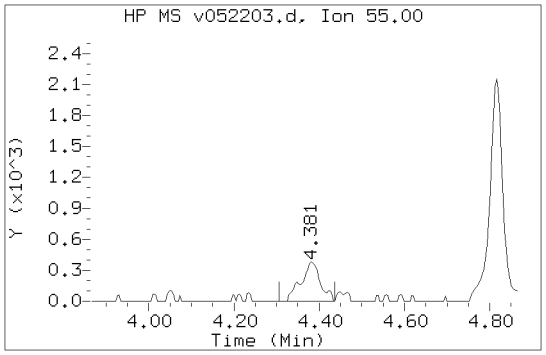
BEFORE

MASS
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1203
HEIGHT
381
23-May-2024
09:51
firat
tastan



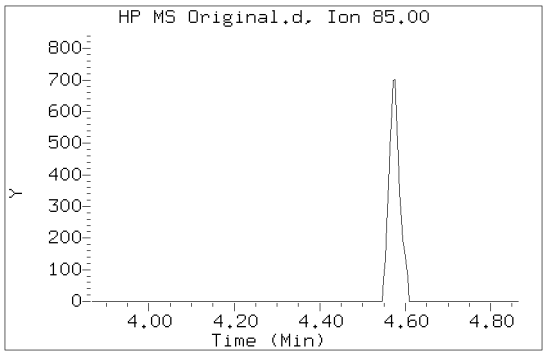
AFTER

MASS
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AREA
1203
HEIGHT
381
23-May-2024
09:51
firat
tastan



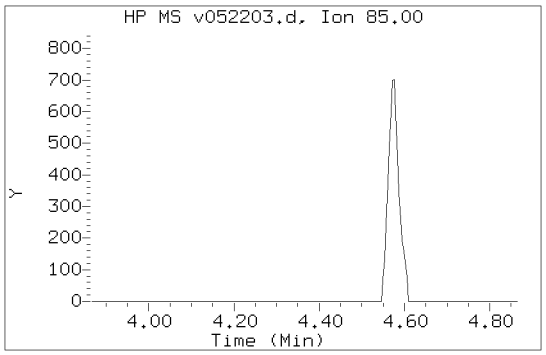
BEFORE

MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

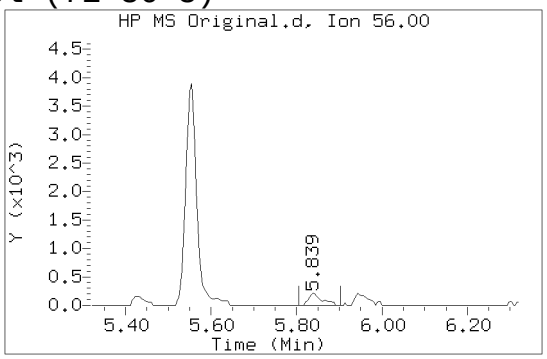


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

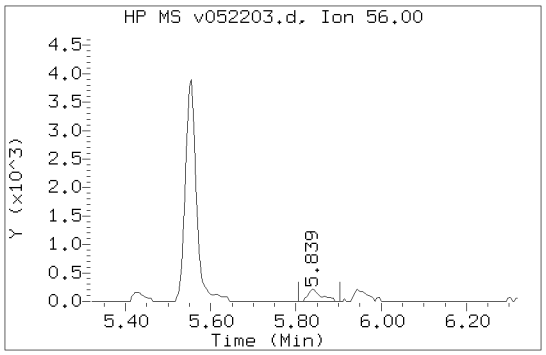
n-Butanol (71-36-3)

Reason Code:

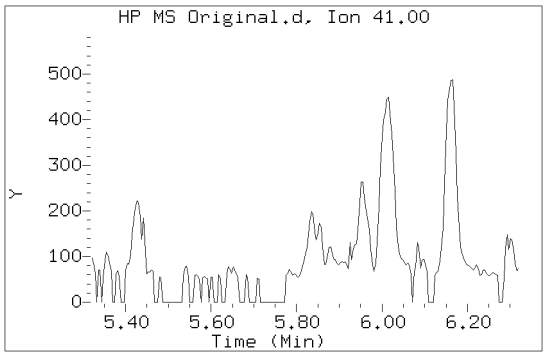
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MASS
56
AREA
459
HEIGHT
216
23-May-2024
09:51
firat
tastan



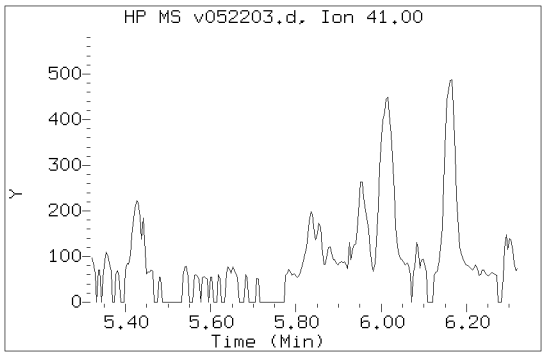
AFTER
MASS
56
AREA
459
HEIGHT
216
23-May-2024
09:51
firat
tastan



BEFORE
MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



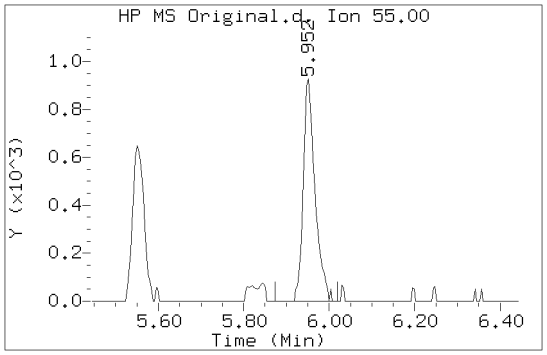
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HEIGHT
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23-May-2024
09:51
firat
tastan



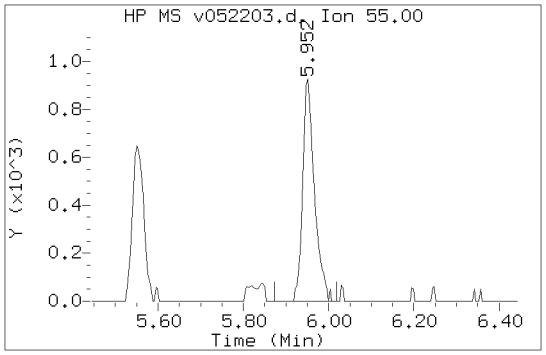
Ethyl Acrylate (140-88-5)

Reason Code:

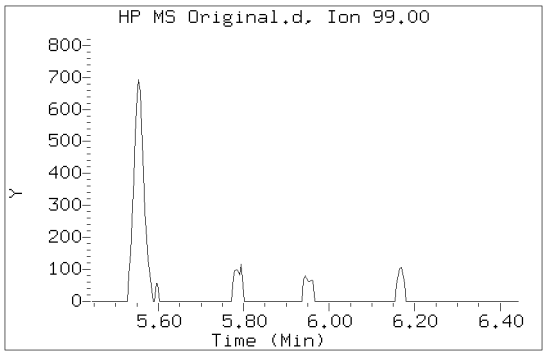
BEFORE
MASS
55
AREA
1789
HEIGHT
927
23-May-2024
09:51
firat
tastan



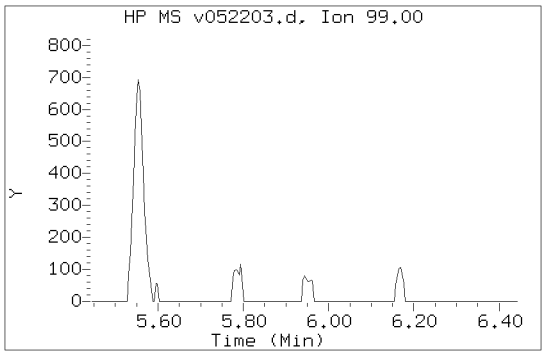
AFTER
MASS
55
AREA
1789
HEIGHT
927
23-May-2024
09:51
firat
tastan



BEFORE
MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



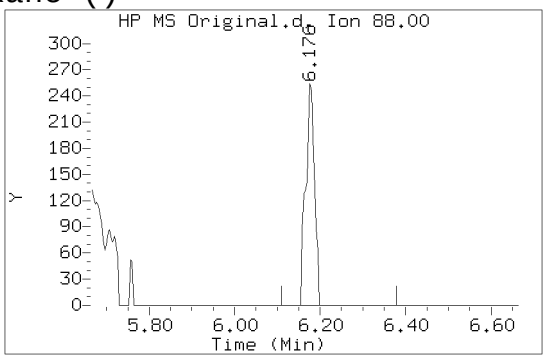
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,4-Dioxane ()

Reason Code:

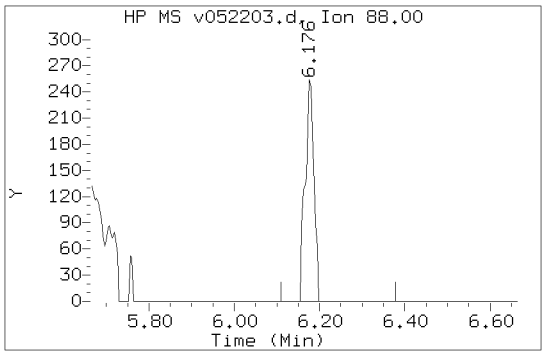
BEFORE

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AREA
374
HEIGHT
254
23-May-2024
09:51
firat
tastan



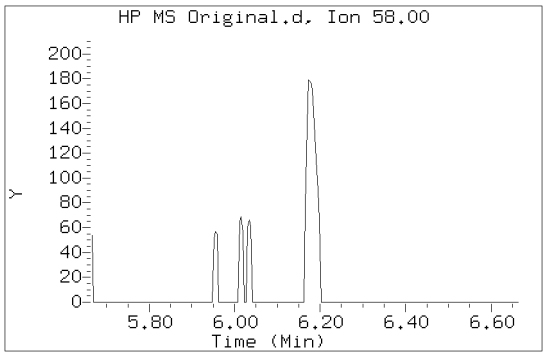
AFTER

MASS
88
AREA
374
HEIGHT
254
23-May-2024
09:51
firat
tastan



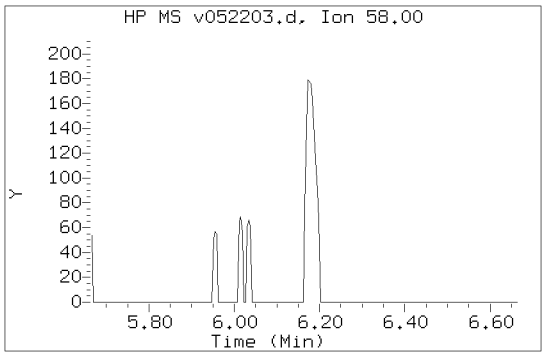
BEFORE

MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

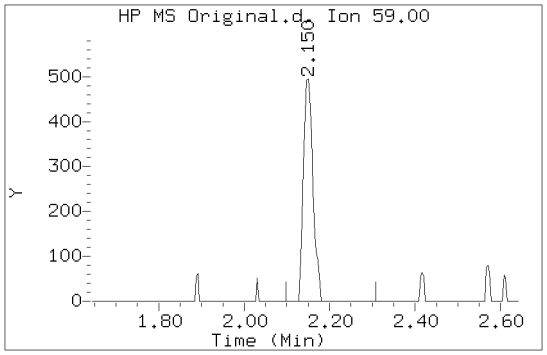


Diethyl ether (60-29-7)

Reason Code:

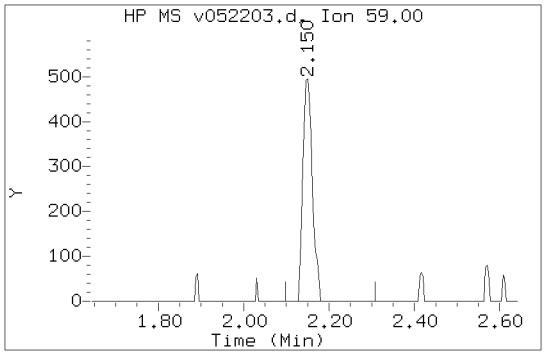
BEFORE

MASS
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AREA
778
HEIGHT
495
23-May-2024
09:51
firat
tastan



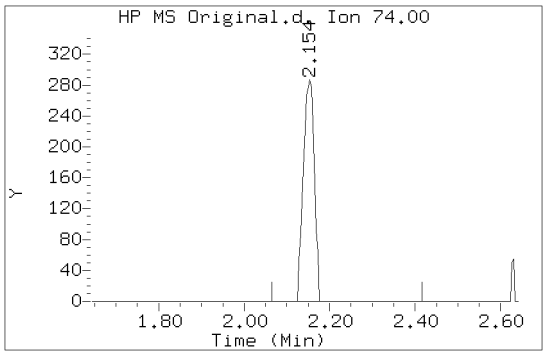
AFTER

MASS
59
AREA
778
HEIGHT
495
23-May-2024
09:51
firat
tastan



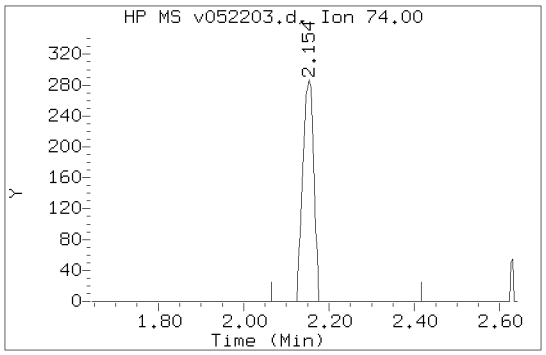
BEFORE

MASS
74
AREA
519
HEIGHT
287
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
519
HEIGHT
287
23-May-2024
09:51
firat
tastan



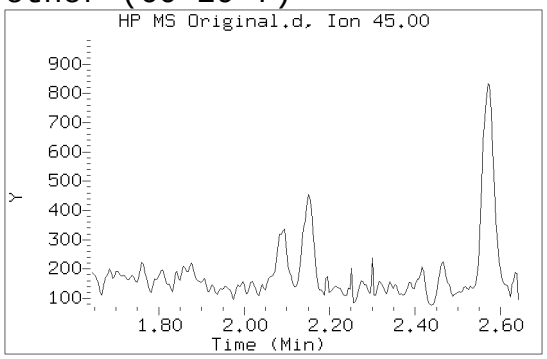
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Diethyl ether (60-29-7)

Reason Code:

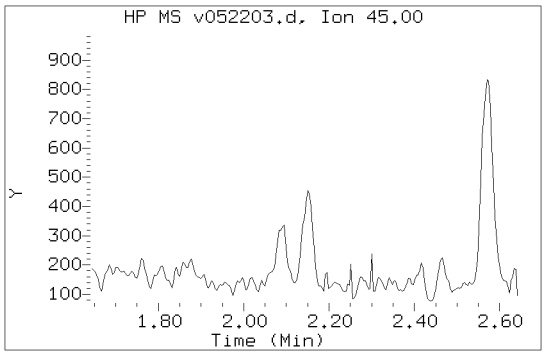
BEFORE

MASS
45
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

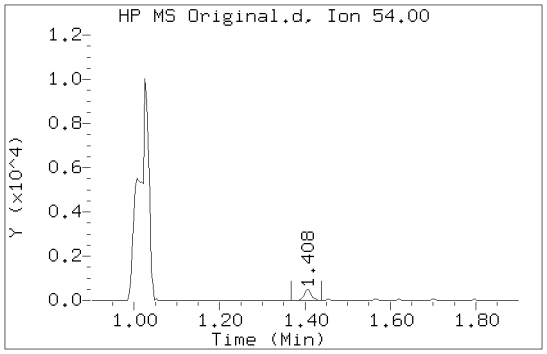


1,3-Butadiene (106-99-0)

Reason Code:

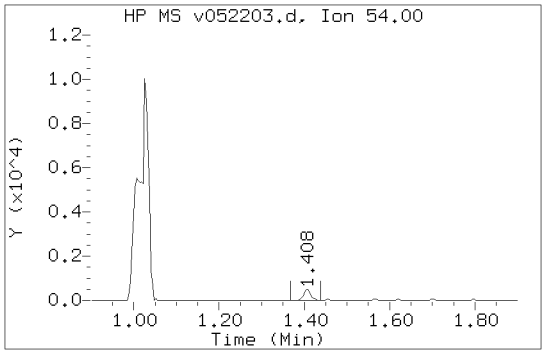
BEFORE

MASS
54
AREA
594
HEIGHT
505
23-May-2024
09:51
firat
tastan



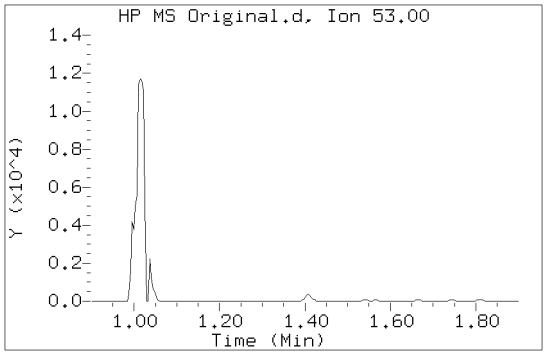
AFTER

MASS
54
AREA
594
HEIGHT
505
23-May-2024
09:51
firat
tastan



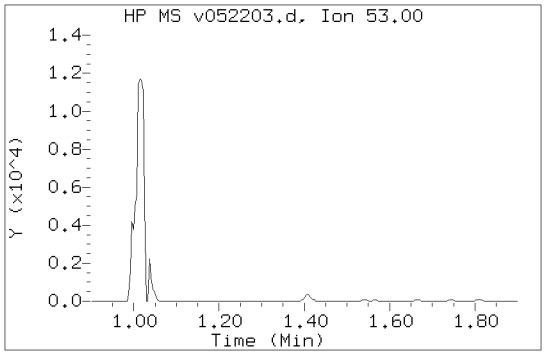
BEFORE

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53
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
53
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

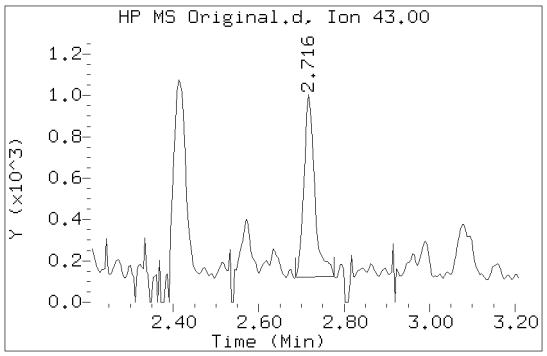


Methyl acetate (79-20-9)

Reason Code:

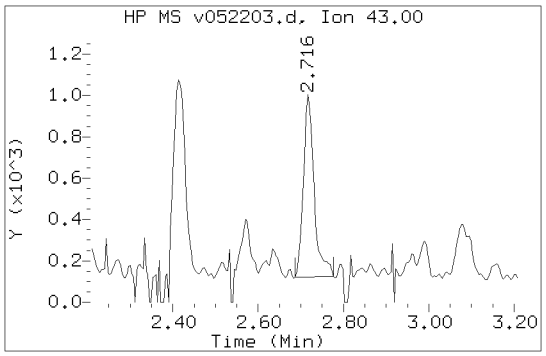
BEFORE

MASS
43
AREA
1546
HEIGHT
880
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
1546
HEIGHT
880
23-May-2024
09:51
firat
tastan

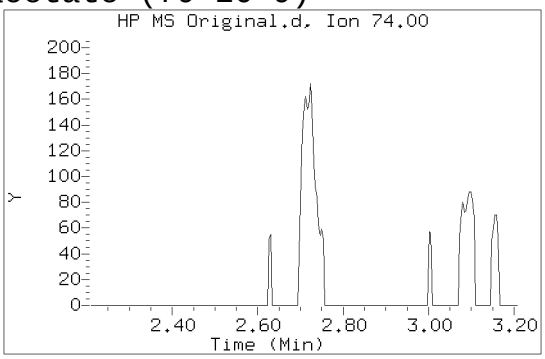


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl acetate (79-20-9)

BEFORE

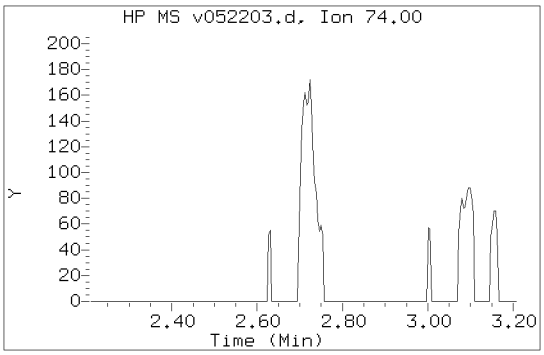
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74
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HEIGHT
0
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

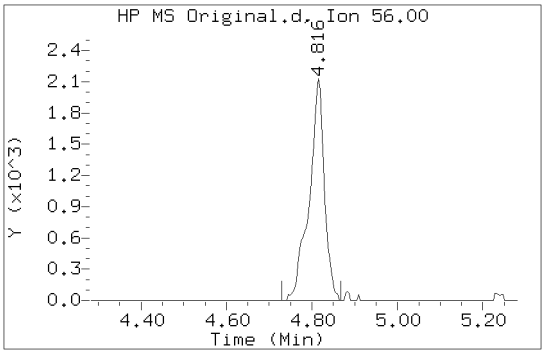
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AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



Cyclohexane (110-82-7)

BEFORE

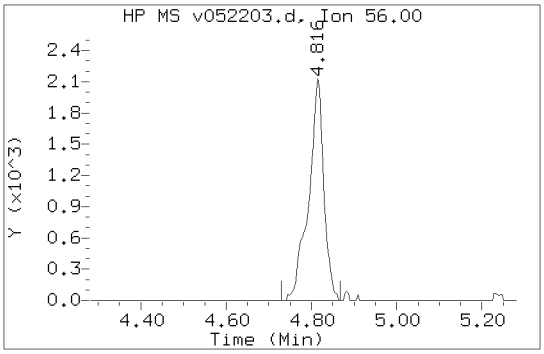
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56
AREA
5290
HEIGHT
2129
23-May-2024
09:51
firat
tastan



Reason Code:

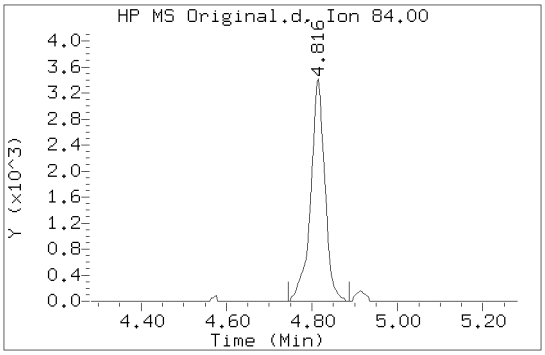
AFTER

MASS
56
AREA
5290
HEIGHT
2129
23-May-2024
09:51
firat
tastan



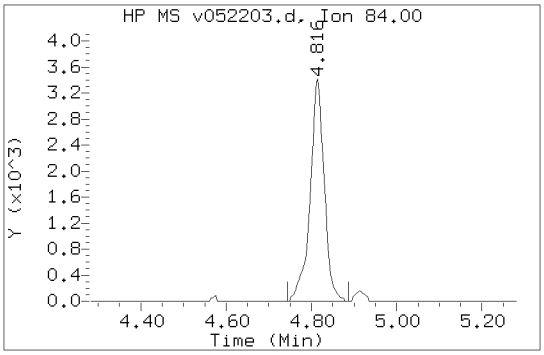
BEFORE

MASS
84
AREA
7895
HEIGHT
3416
23-May-2024
09:51
firat
tastan



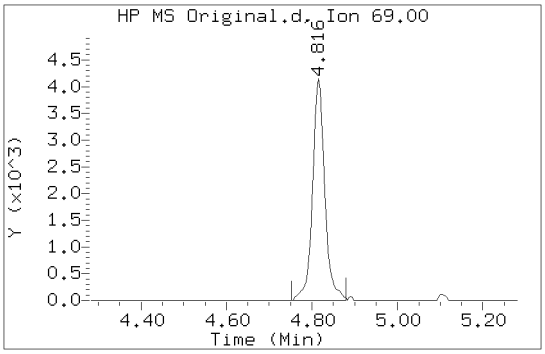
AFTER

MASS
84
AREA
7895
HEIGHT
3416
23-May-2024
09:51
firat
tastan



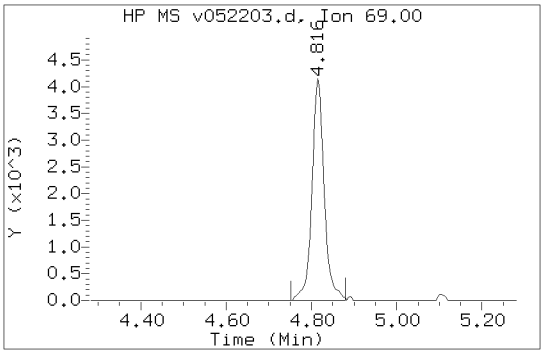
BEFORE

MASS
69
AREA
8283
HEIGHT
4148
23-May-2024
09:51
firat
tastan



AFTER

MASS
69
AREA
8283
HEIGHT
4148
23-May-2024
09:51
firat
tastan



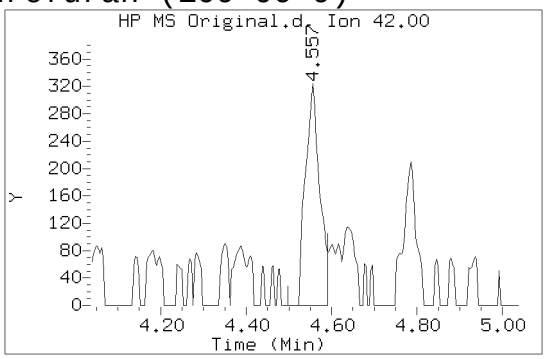
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

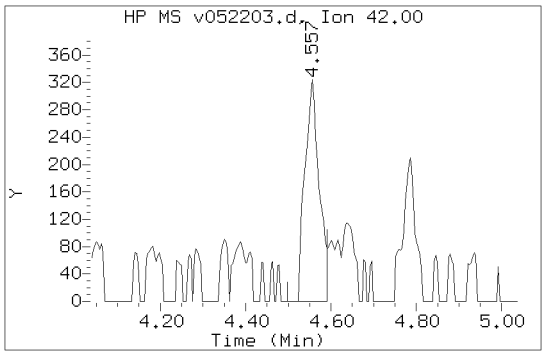
BEFORE

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42
AREA
763
HEIGHT
324
23-May-2024
09:51
firat
tastan



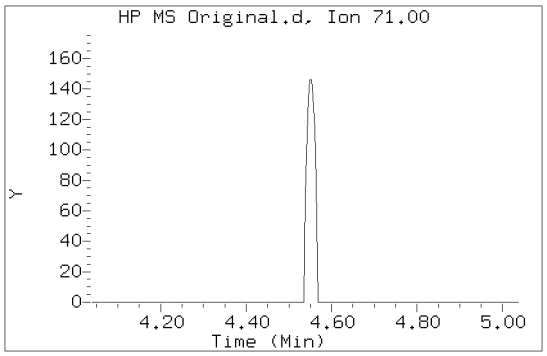
AFTER

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763
HEIGHT
324
23-May-2024
09:51
firat
tastan



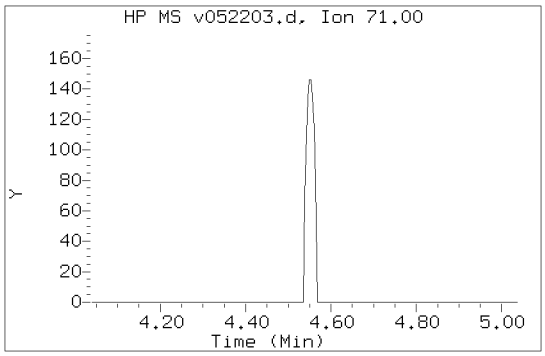
BEFORE

MASS
71
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
71
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

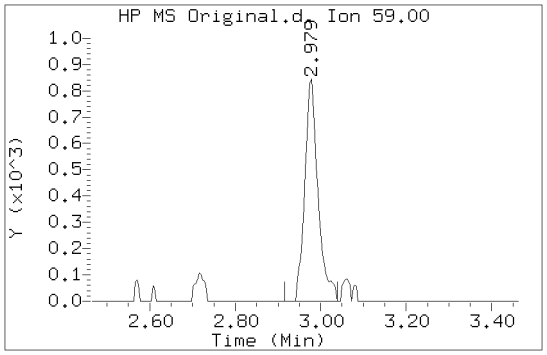


Tert-butyl alcohol (75-65-0)

Reason Code:

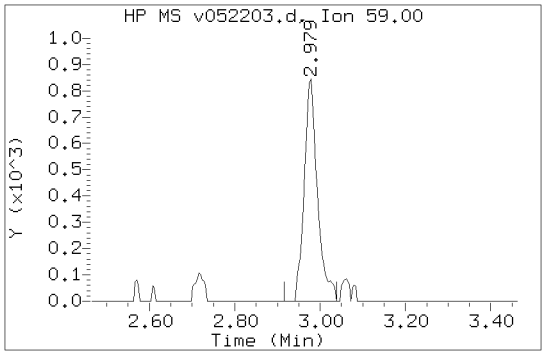
BEFORE

MASS
59
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1855
HEIGHT
845
23-May-2024
09:51
firat
tastan



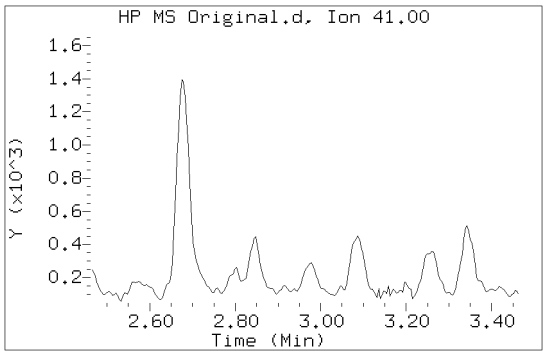
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23-May-2024
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firat
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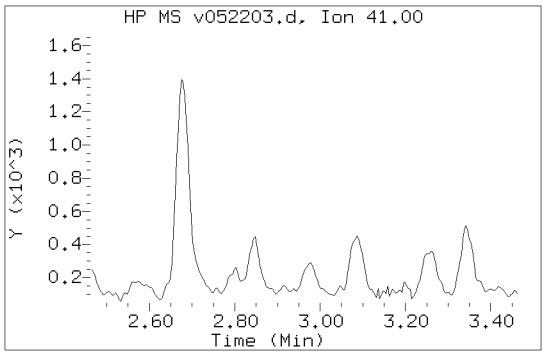
BEFORE

MASS
41
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

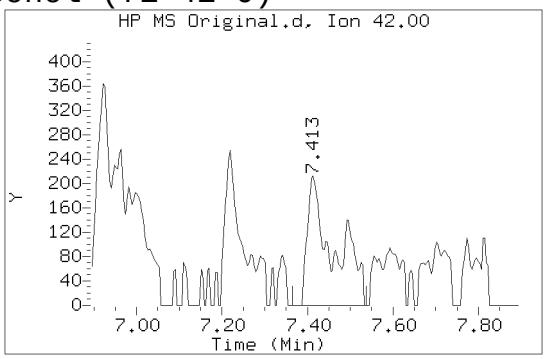


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

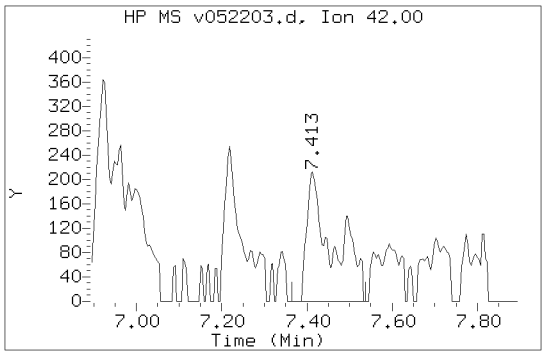
Amyl alcohol (71-41-0)

Reason Code:

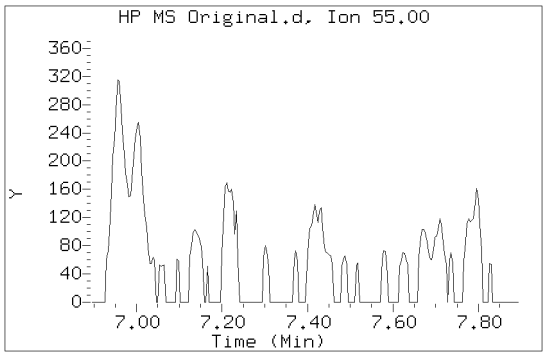
BEFORE
MASS
42
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903
HEIGHT
213
23-May-2024
09:51
firat
tastan



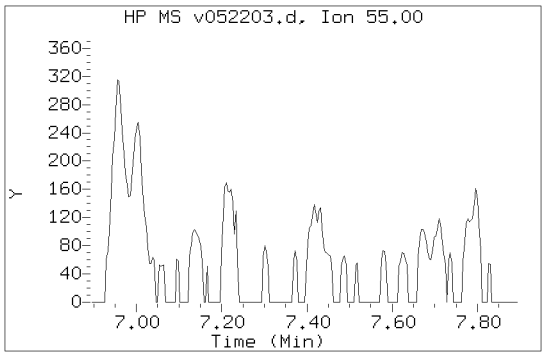
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903
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213
23-May-2024
09:51
firat
tastan



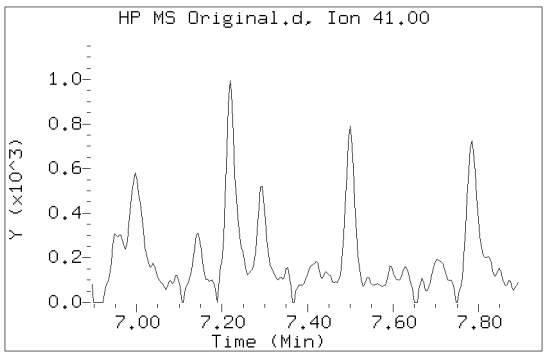
BEFORE
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AREA
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HEIGHT
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23-May-2024
09:51
firat
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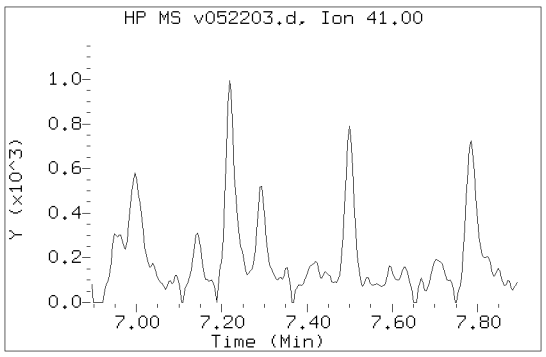
AFTER
MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



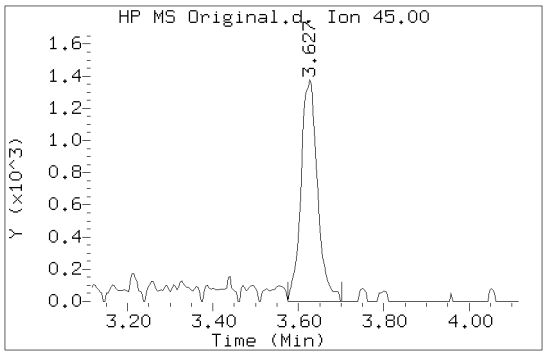
AFTER
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



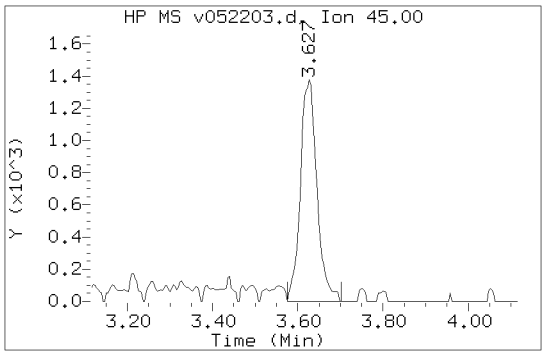
Diisopropyl ether (108-20-3)

Reason Code:

BEFORE
MASS
45
AREA
3742
HEIGHT
1378
23-May-2024
09:51
firat
tastan



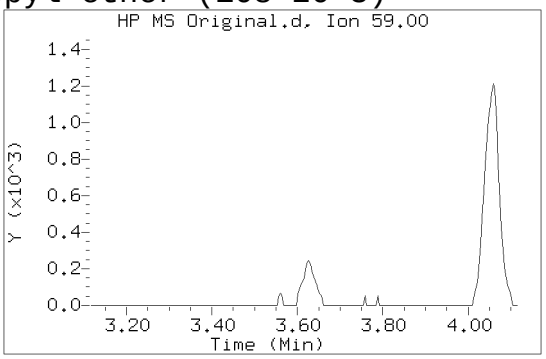
AFTER
MASS
45
AREA
3742
HEIGHT
1378
23-May-2024
09:51
firat
tastan



Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

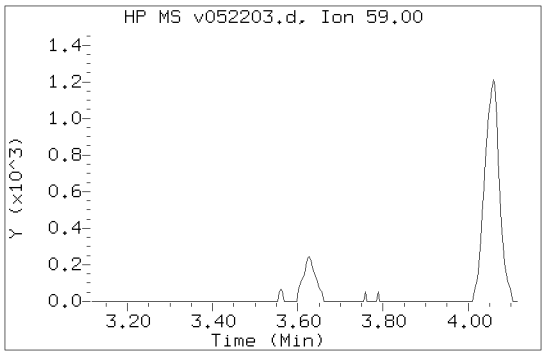
Diisopropyl ether (108-20-3)

BEFORE
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59
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

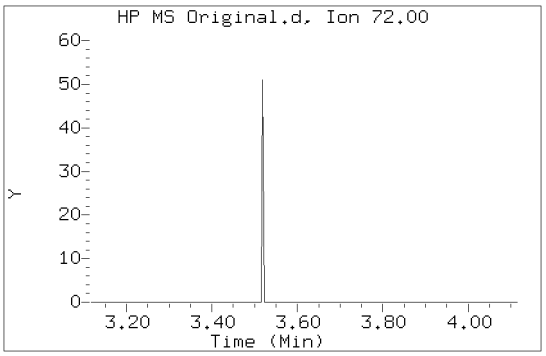


Reason Code:

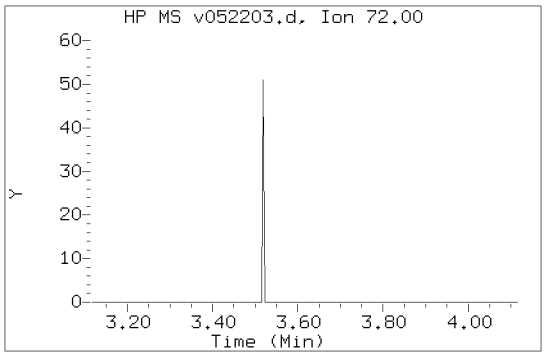
AFTER
MASS
59
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
72
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

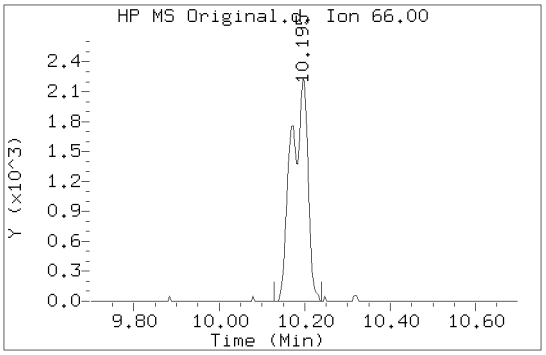


AFTER
MASS
72
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



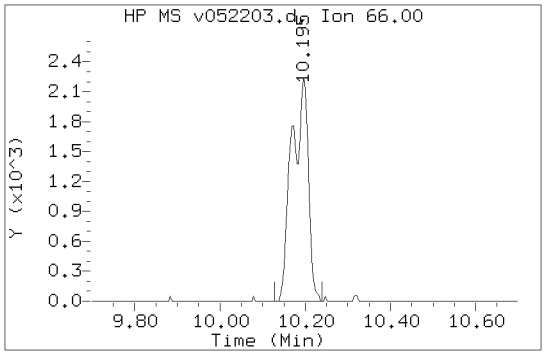
Dicyclopentadiene (77-73-6)

BEFORE
MASS
66
AREA
6100
HEIGHT
2228
23-May-2024
09:51
firat
tastan

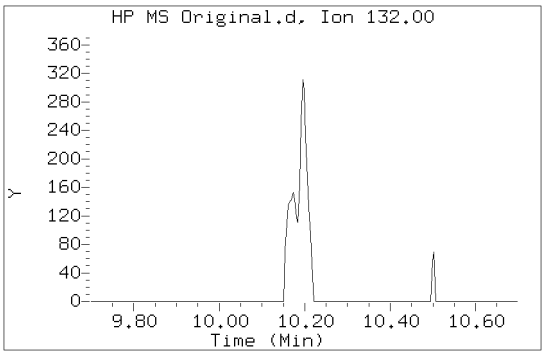


Reason Code:

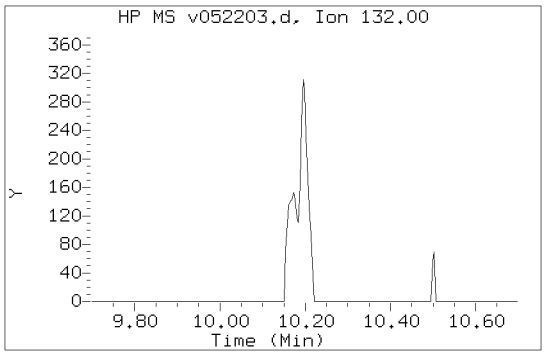
AFTER
MASS
66
AREA
6100
HEIGHT
2228
23-May-2024
09:51
firat
tastan



BEFORE
MASS
132
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
132
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



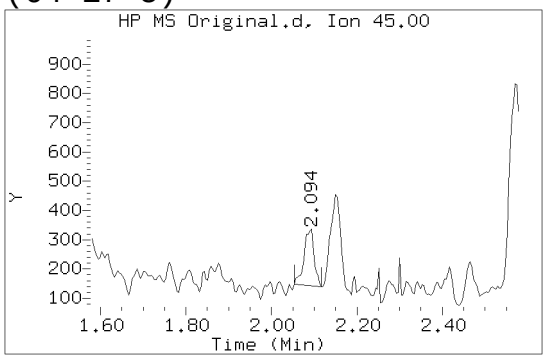
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

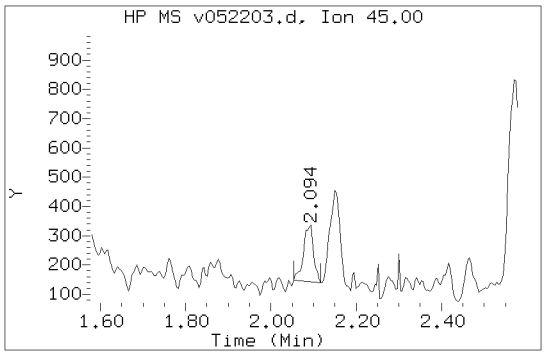
BEFORE

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AREA
322
HEIGHT
193
23-May-2024
09:51
firat
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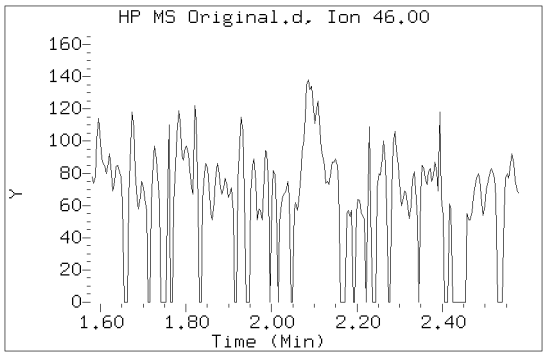
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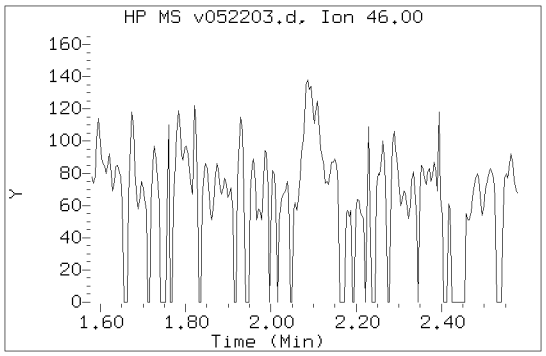
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23-May-2024
09:51
firat
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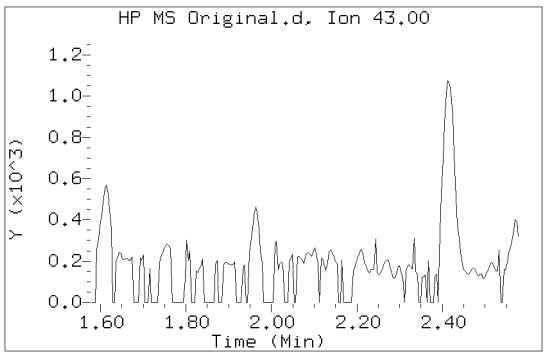
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23-May-2024
09:51
firat
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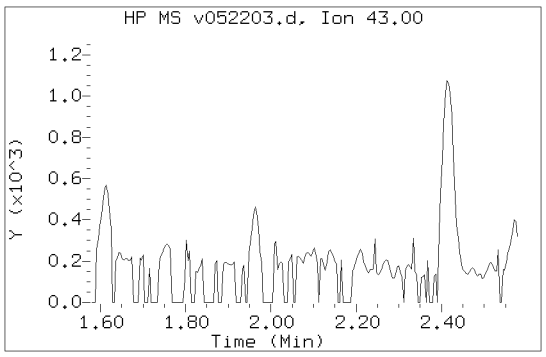
BEFORE

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23-May-2024
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AFTER

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

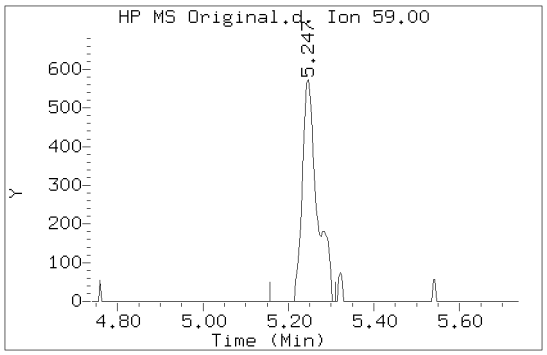


tert-Butyl formate (762-75-4)

Reason Code:

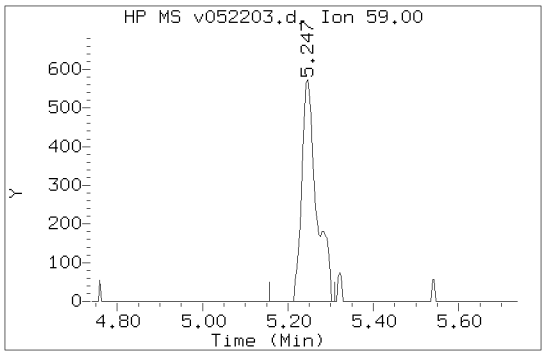
BEFORE

MASS
59
AREA
1386
HEIGHT
573
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
1386
HEIGHT
573
23-May-2024
09:51
firat
tastan

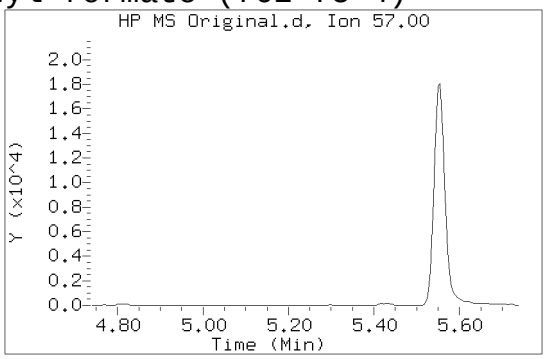


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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

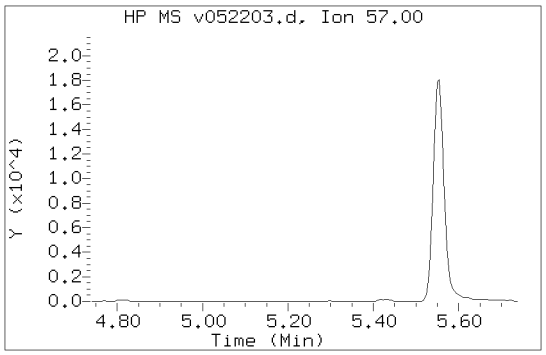
tert-Butyl formate (762-75-4)

Reason Code:

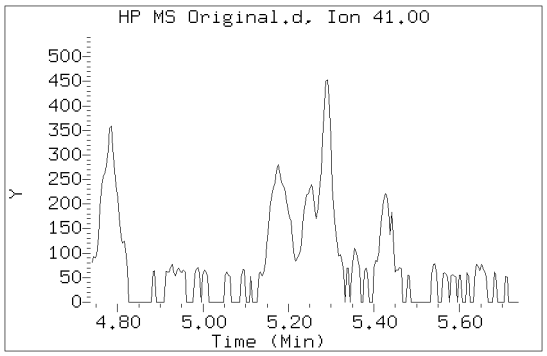
BEFORE
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HEIGHT
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23-May-2024
09:51
firat
tastan



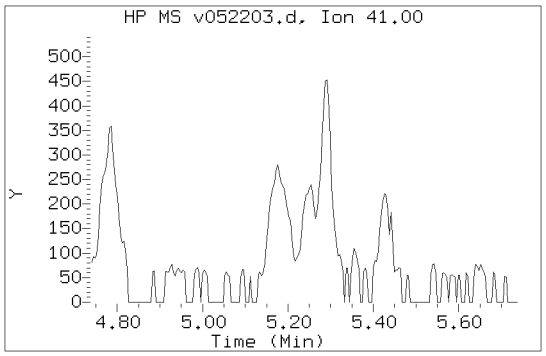
AFTER
MASS
57
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



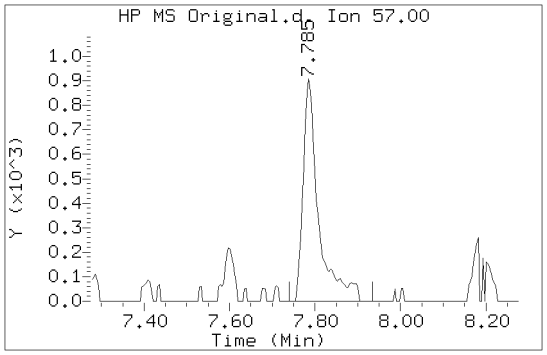
AFTER
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HEIGHT
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23-May-2024
09:51
firat
tastan



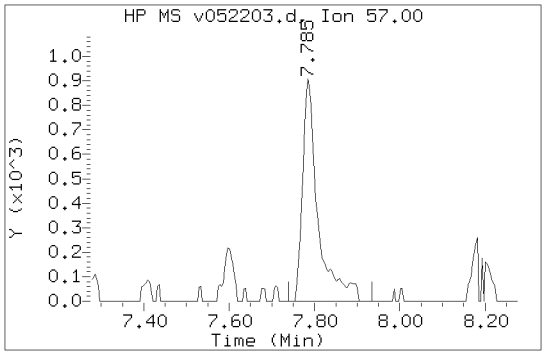
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

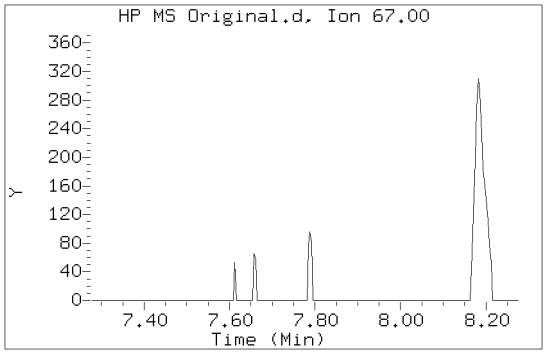
BEFORE
MASS
57
AREA
2315
HEIGHT
908
23-May-2024
09:51
firat
tastan



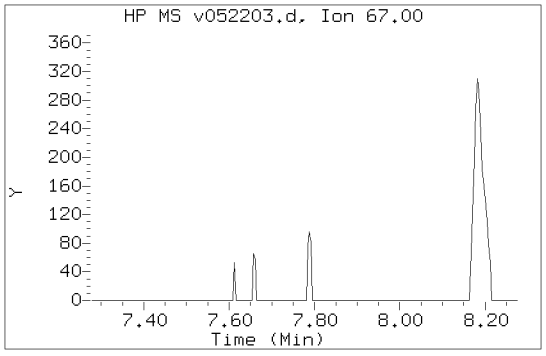
AFTER
MASS
57
AREA
2315
HEIGHT
908
23-May-2024
09:51
firat
tastan



BEFORE
MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



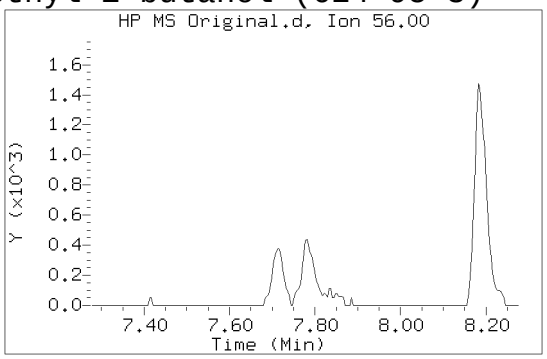
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052203.d
Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

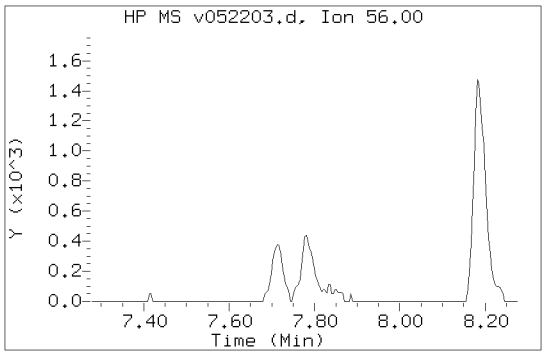
BEFORE

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

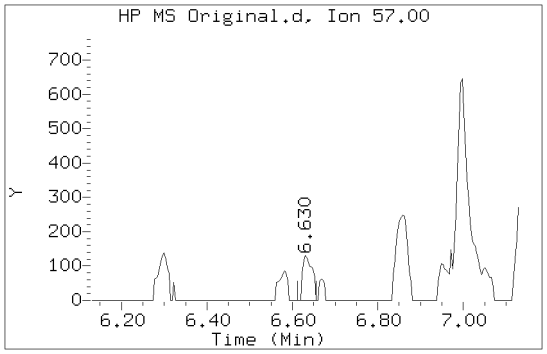


Epichlorohydrin (106-89-8)

Reason Code:

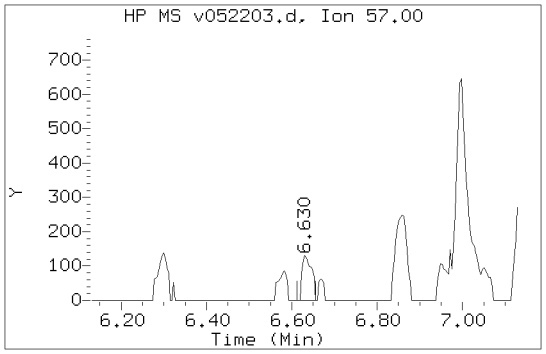
BEFORE

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AREA
205
HEIGHT
130
23-May-2024
09:51
firat
tastan



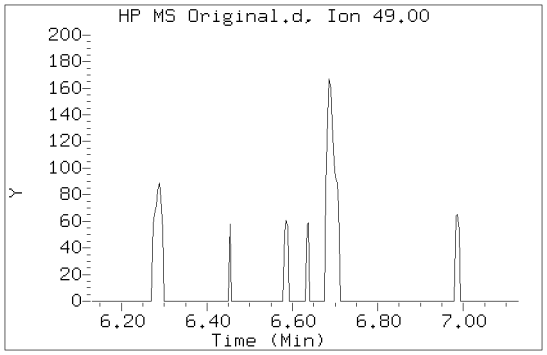
AFTER

MASS
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AREA
205
HEIGHT
130
23-May-2024
09:51
firat
tastan



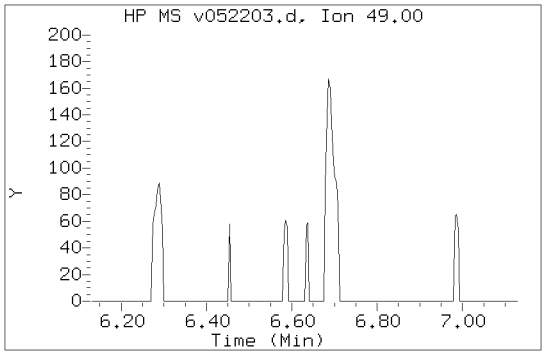
BEFORE

MASS
49
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

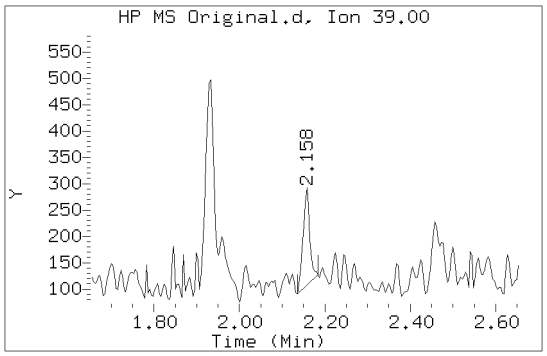


Isoprene (78-79-5)

Reason Code:

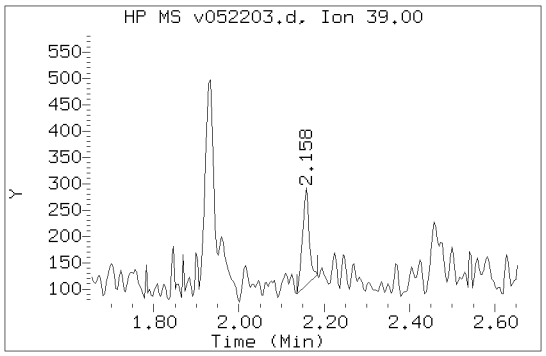
BEFORE

MASS
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AREA
204
HEIGHT
184
23-May-2024
09:51
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tastan



AFTER

MASS
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AREA
204
HEIGHT
184
23-May-2024
09:51
firat
tastan

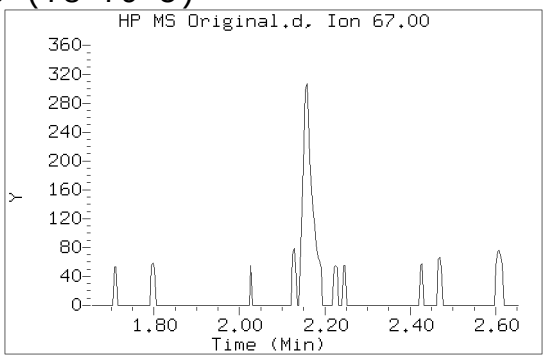


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InstruID : VOA9.i
LabSampID : VSTD00.5

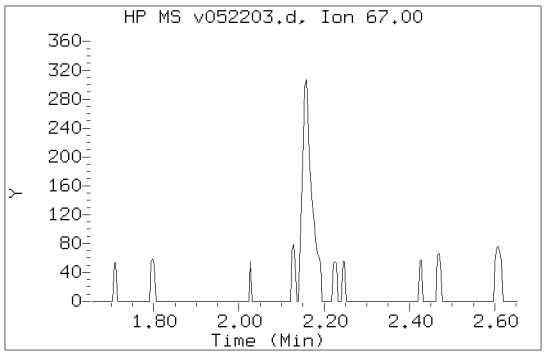
Isoprene (78-79-5)

Reason Code:

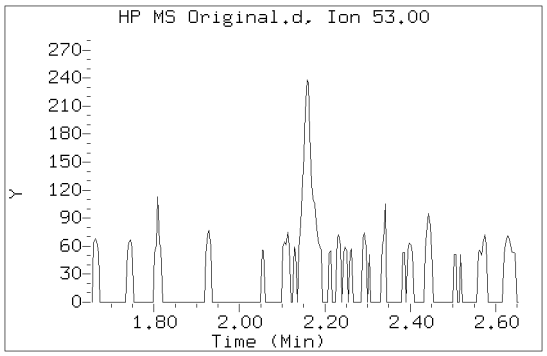
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MASS
67
AREA
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23-May-2024
09:51
firat
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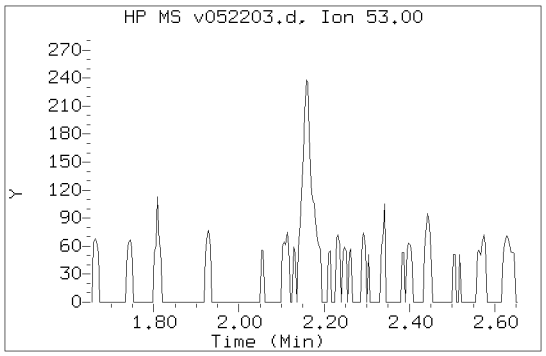
AFTER
MASS
67
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



BEFORE
MASS
53
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



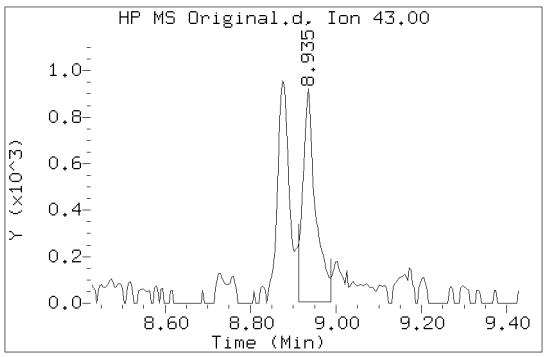
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HEIGHT
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23-May-2024
09:51
firat
tastan



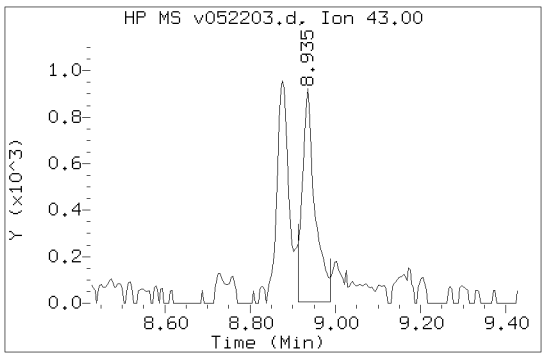
n-Amyl acetate (628-63-7)

Reason Code:

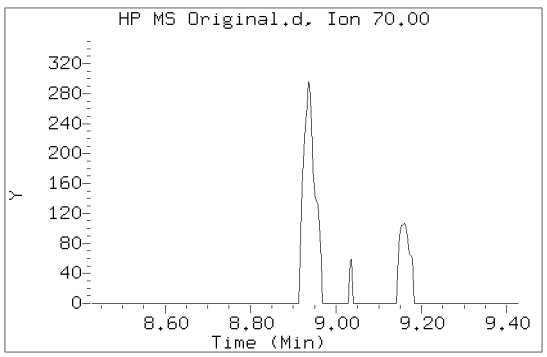
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MASS
43
AREA
1919
HEIGHT
917
23-May-2024
09:51
firat
tastan



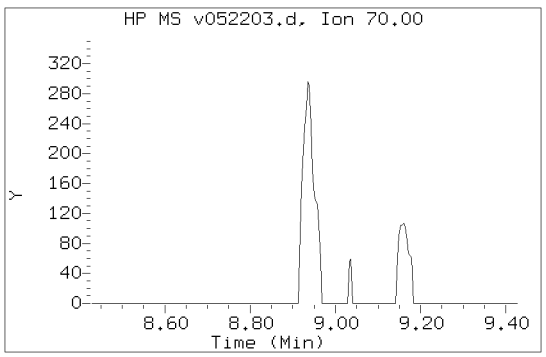
AFTER
MASS
43
AREA
1919
HEIGHT
917
23-May-2024
09:51
firat
tastan



BEFORE
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



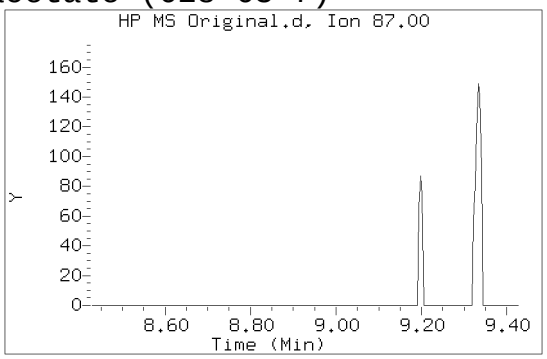
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Inj Date : 22-MAY-2024 20:44
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

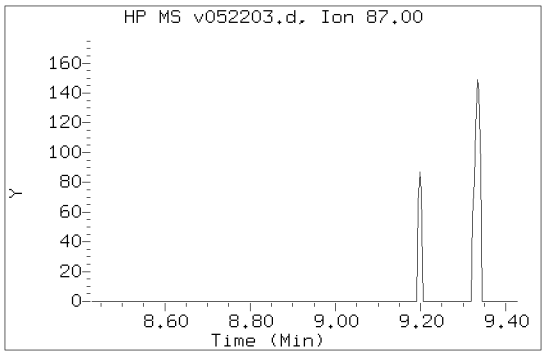
BEFORE

MASS
87
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
87
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

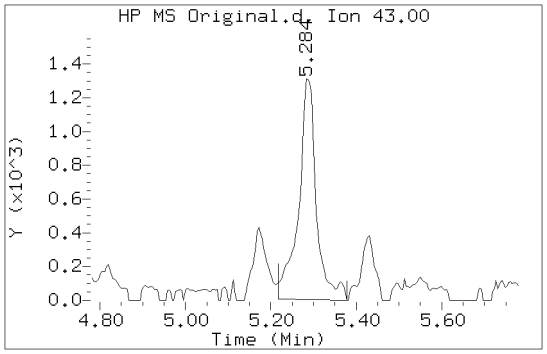


Isopropyl acetate (108-21-4)

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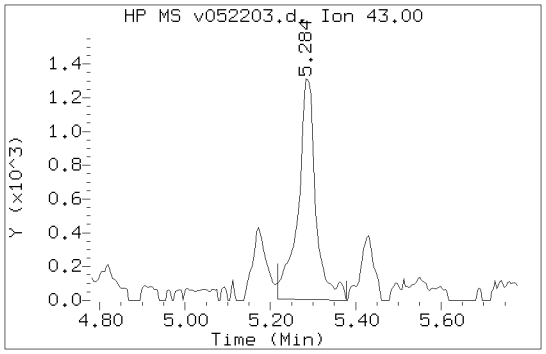
BEFORE

MASS
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AREA
3832
HEIGHT
1308
23-May-2024
09:51
firat
tastan



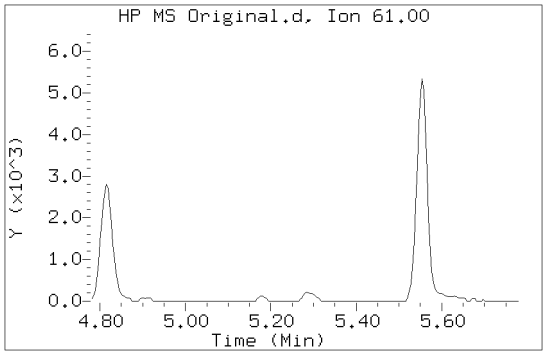
AFTER

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AREA
3832
HEIGHT
1308
23-May-2024
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firat
tastan



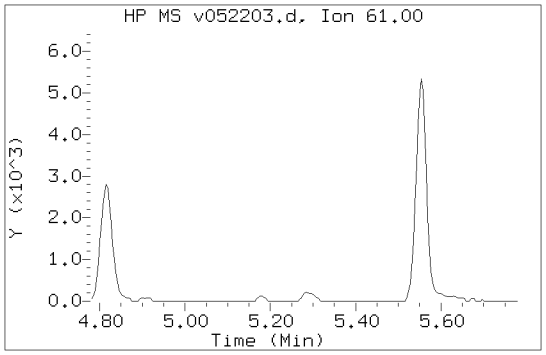
BEFORE

MASS
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AREA
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HEIGHT
0
23-May-2024
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firat
tastan



AFTER

MASS
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AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

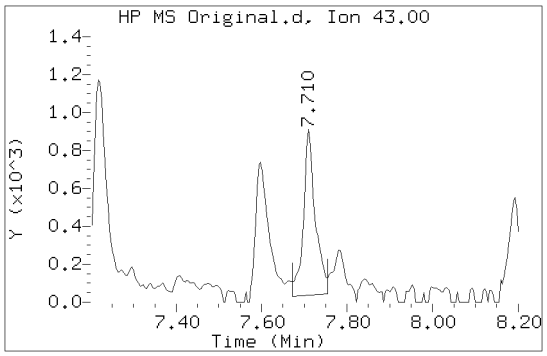


n-Butyl acetate (123-86-4)

Reason Code:

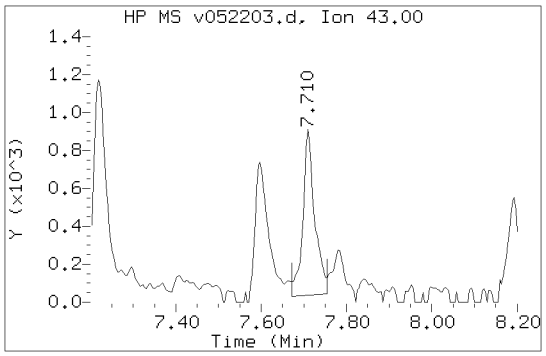
BEFORE

MASS
43
AREA
1715
HEIGHT
872
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
1715
HEIGHT
872
23-May-2024
09:51
firat
tastan

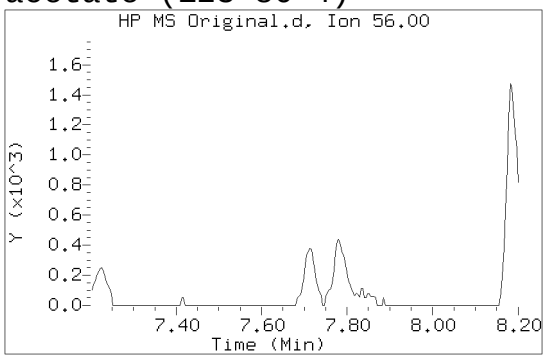


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LabSampID : VSTD00.5

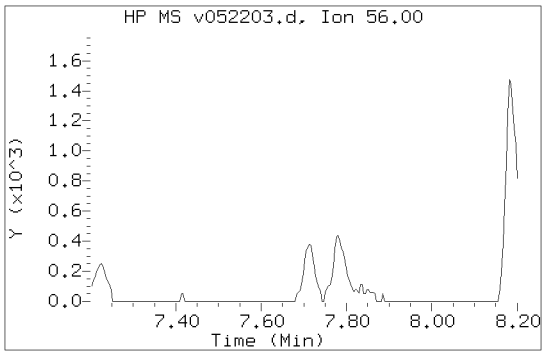
n-Butyl acetate (123-86-4)

Reason Code:

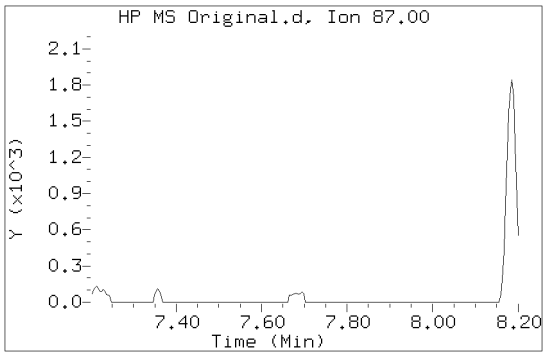
BEFORE
MASS
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HEIGHT
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23-May-2024
09:51
firat
tastan



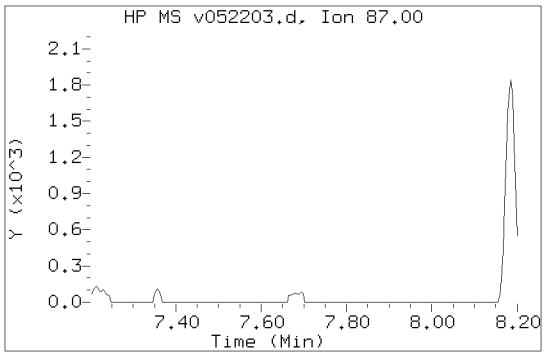
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HEIGHT
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23-May-2024
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BEFORE
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HEIGHT
0
23-May-2024
09:51
firat
tastan



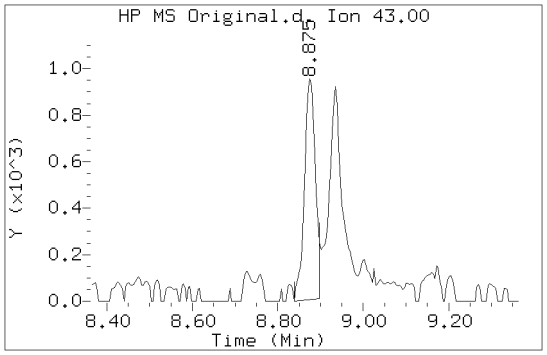
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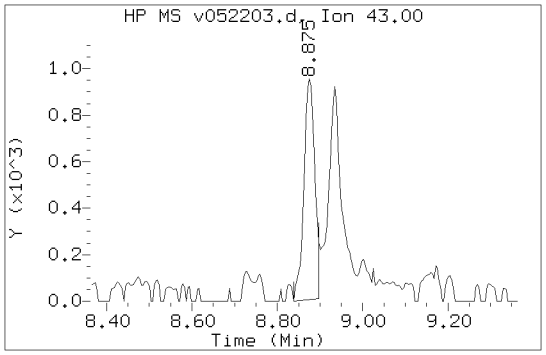
Methyl Amyl Ketone (110-43-0)

Reason Code:

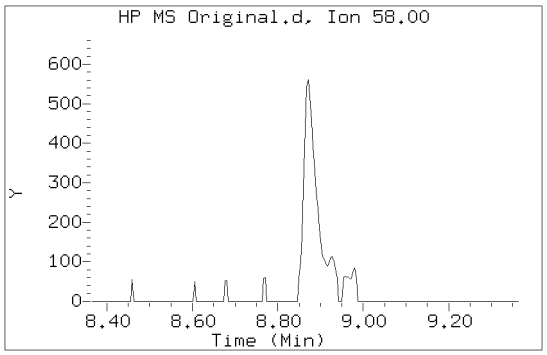
BEFORE
MASS
43
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1710
HEIGHT
949
23-May-2024
09:51
firat
tastan



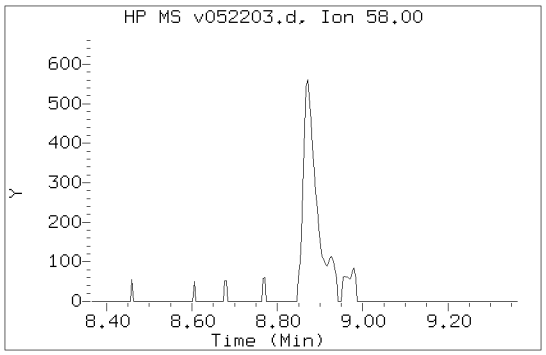
AFTER
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HEIGHT
949
23-May-2024
09:51
firat
tastan



BEFORE
MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER
MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



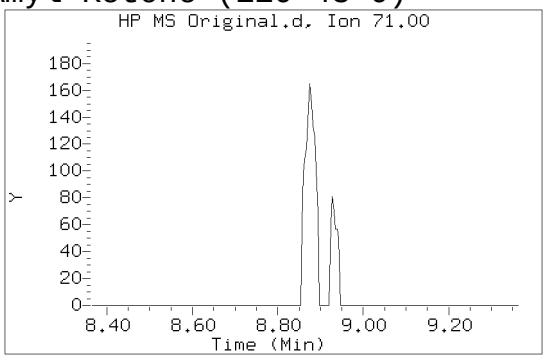
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InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Amyl Ketone (110-43-0)

Reason Code:

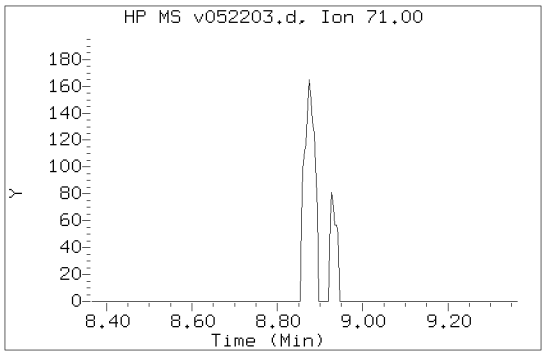
BEFORE

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71
AREA
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HEIGHT
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23-May-2024
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firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

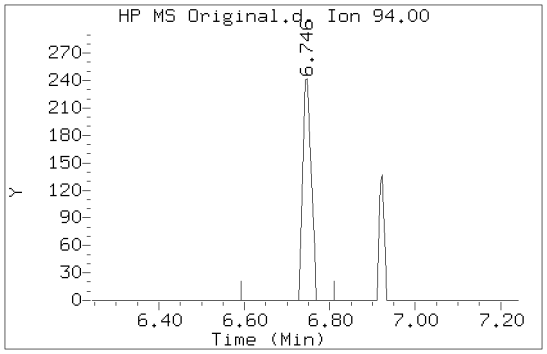


Dimethyl Disulfide (624-92-0)

Reason Code:

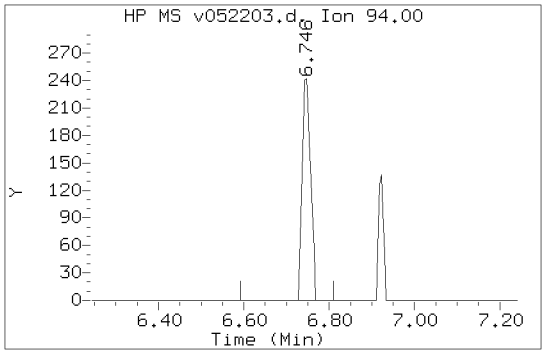
BEFORE

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343
HEIGHT
242
23-May-2024
09:51
firat
tastan



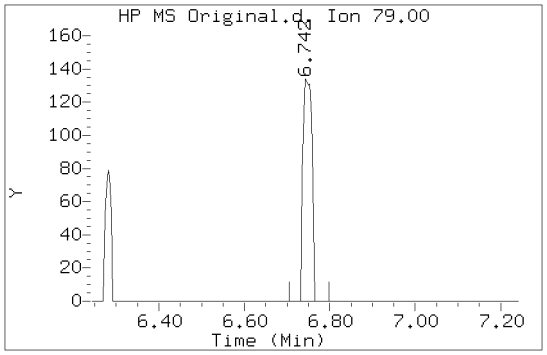
AFTER

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HEIGHT
242
23-May-2024
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firat
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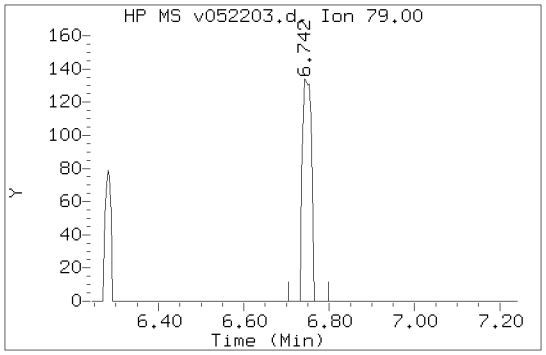
BEFORE

MASS
79
AREA
201
HEIGHT
134
23-May-2024
09:51
firat
tastan



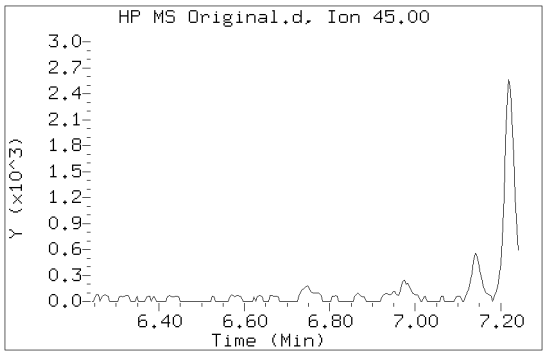
AFTER

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HEIGHT
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23-May-2024
09:51
firat
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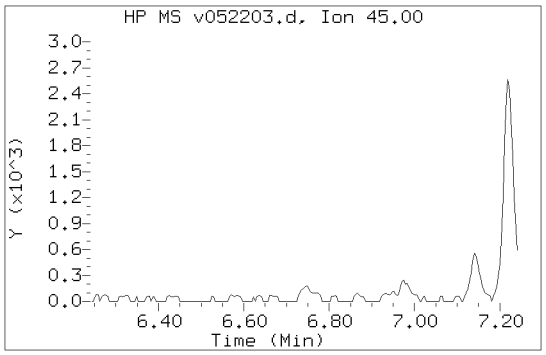
BEFORE

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23-May-2024
09:51
firat
tastan



AFTER

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HEIGHT
0
23-May-2024
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firat
tastan

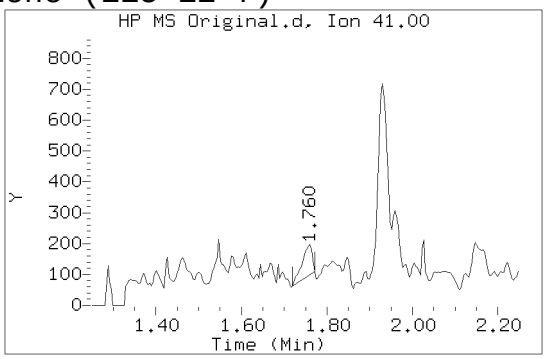


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LabSampID : VSTD00.5

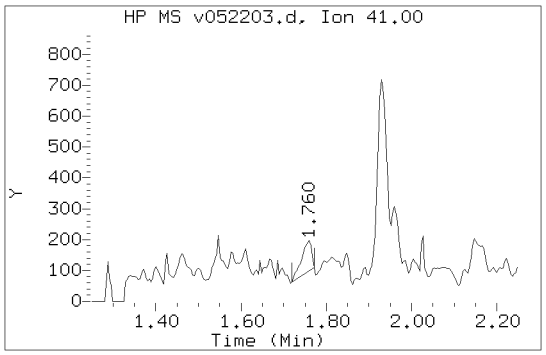
Isobutylene (115-11-7)

Reason Code:

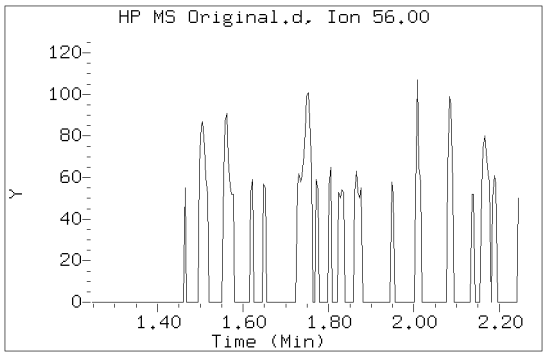
BEFORE
MASS
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AREA
164
HEIGHT
96
23-May-2024
09:51
firat
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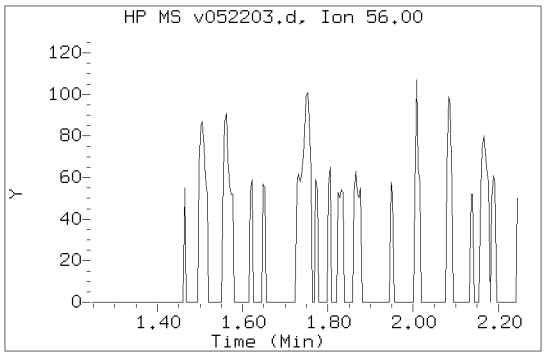
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AREA
164
HEIGHT
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23-May-2024
09:51
firat
tastan



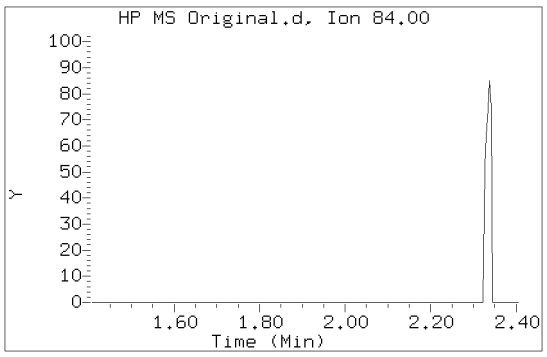
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23-May-2024
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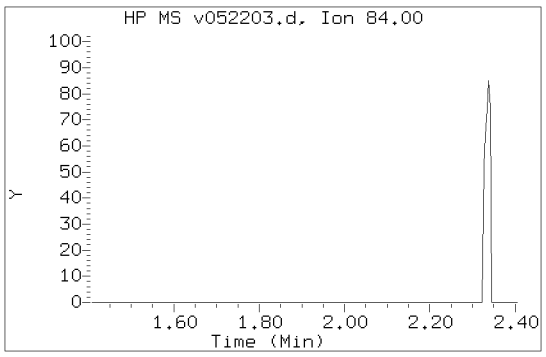
AFTER
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AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



BEFORE
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AREA
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HEIGHT
0
23-May-2024
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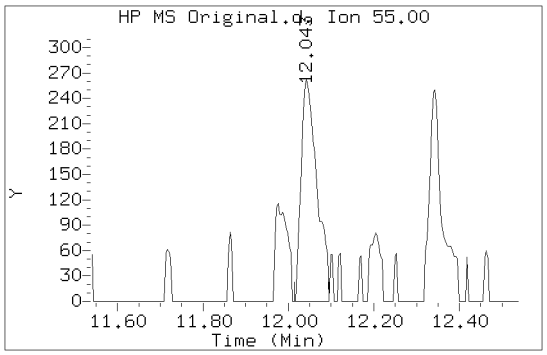
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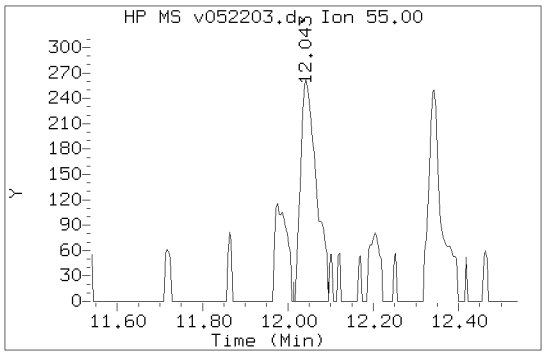
2-Ethylhexyl Acrylate (103-11-7)

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AFTER
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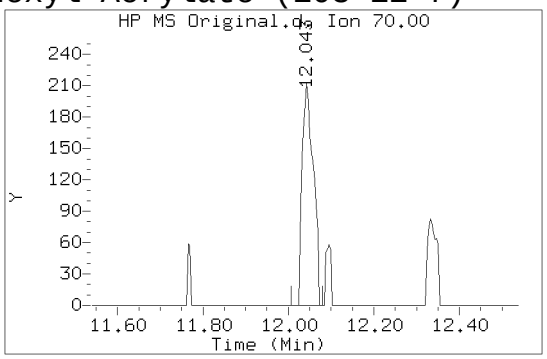
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InstruID : VOA9.i
LabSampID : VSTD00.5

2-Ethylhexyl Acrylate (103-11-7)

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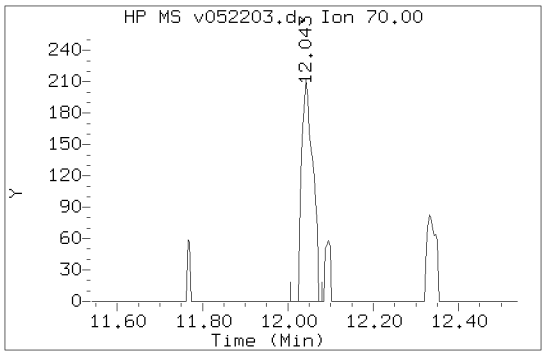
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AFTER

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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052204.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052204.D
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Smp Info : VSTD001;VSTD001;1;3
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Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	229096	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	999	1.00000	0.81(M)
3	Chloromethane	50	1.295	1.295	(0.269)	11392	1.00000	1.60
4	Propionitrile	54	4.343	4.343	(0.902)	3786	10.0000	13.07(aM)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	2017	1.00000	0.97
6	Bromomethane	94	1.614	1.614	(0.335)	1774	1.00000	1.56
7	Chloroethane	64	1.700	1.700	(0.353)	1699	1.00000	1.18
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	2065	1.00000	0.87
9	Acrolein	56	2.266	2.266	(0.471)	475	2.00000	3.98(aM)
10	Acetone	43	2.409	2.409	(0.500)	2810	2.00000	3.39
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	1551	1.00000	1.07
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	5996	20.0000	21.68(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	2354	10.0000	12.44(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	5992	1.00000	1.23(a)
15	Iodomethane	142	2.465	2.465	(0.512)	1167	2.00000	2.71(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	2044	2.00000	2.81
17	Methylene Chloride	84	2.795	2.795	(0.580)	4514	1.00000	1.59
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	5966	1.00000	1.29
19	Carbon Disulfide	76	2.517	2.517	(0.523)	8490	2.00000	1.94
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	1839	1.00000	1.11

21 Vinyl Acetate	43	4.347	4.347 (0.903)	2690	2.00000	2.37(M)
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	3832	1.00000	1.16(T)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	2599	1.00000	1.02(aM)
24	2-Butanone	43	4.272	4.272	(0.887)	2158	2.00000	2.02
25	Methacrylonitrile	41	4.500	4.500	(0.935)	1456	1.00000	1.20(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	1844	1.00000	0.91(M)
27	cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	2353	1.00000	1.18
28	Chloroform	83	4.571	4.571	(0.949)	3810	1.00000	1.15
29	Bromochloromethane	128	4.470	4.470	(0.928)	1171	1.00000	1.19
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	2174	1.00000	1.30
31	1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	2100	1.00000	0.90
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	2084	1.00000	0.86
33	1,2-Dichloroethane	62	5.179	5.179	(0.933)	3006	1.00000	1.12
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	1905	1.00000	0.97
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	3401	1.00000	1.62
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	339617	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	8834	1.00000	1.13
38	Trichloroethene	130	5.786	5.786	(1.043)	1941	1.00000	1.03(a)
39	Bromodichloromethane	83	6.277	6.277	(1.131)	2013	1.00000	0.97(aM)
40	Methyl Methacrylate	41	5.846	5.846	(1.214)	1155	1.00000	1.61(aM)
41	2-Chloroethylvinyl ether	63	6.581	6.581	(1.186)	1242	2.00000	1.88(aM)
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	2470	1.00000	1.14(a)
43	2-Nitropropane	43	6.506	6.506	(1.351)	621	1.00000	1.57(aM)
44	Dibromomethane	93	6.120	6.120	(1.103)	1339	1.00000	1.14(a)
45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	4527	2.00000	2.12(a)
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	1996	1.00000	0.83(aM)
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	308399	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	8273	1.00000	1.32(a)
49	Ethyl Methacrylate	69	7.293	7.293	(1.314)	2724	1.00000	1.08(aM)
50	Toluene	91	6.982	6.982	(0.853)	7775	1.00000	0.99(a)
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	1359	1.00000	0.73(aM)
52	2-Hexanone	43	7.597	7.597	(0.929)	2923	2.00000	2.05(a)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	1635	1.00000	1.06(a)
54	1,3-Dichloropropane	76	7.499	7.499	(0.917)	3587	1.00000	1.10(a)
55	Dibromochloromethane	129	7.690	7.690	(0.940)	1373	1.00000	0.90(a)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	1349	1.00000	0.91(a)
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	1655	1.00000	1.00(a)
58	1-Chlorohexane	55	8.185	8.185	(1.475)	4226	1.00000	1.55(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	6324	1.00000	1.19(a)
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	1541	1.00000	0.95(a)
61	Ethylbenzene	106	8.305	8.305	(1.015)	2548	1.00000	1.01(a)
62	m,p-Xylenes	106	8.410	8.410	(1.028)	5807	2.00000	1.89(a)
63	o-Xylene	106	8.744	8.744	(1.069)	3078	1.00000	1.02(a)
64	Styrene	104	8.763	8.763	(1.071)	5013	1.00000	0.98(a)
66	Bromoform	173	8.920	8.920	(1.090)	721	1.00000	0.76(aM)
67	Isopropylbenzene	105	9.062	9.062	(1.108)	6959	1.00000	0.93(a)
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	3041	1.00000	1.24(aM)
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.124)	3587	1.00000	1.50(a)
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	159294	50.0000	
71	1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	2895	1.00000	1.18(a)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	701	1.00000	1.27(a)
73	n-Propylbenzene	91	9.411	9.411	(0.926)	7637	1.00000	0.92(a)
74	Bromobenzene	156	9.317	9.317	(0.916)	2406	1.00000	1.14(a)
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	5105	1.00000	0.89(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	5690	1.00000	1.06(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	6353	1.00000	1.04(a)

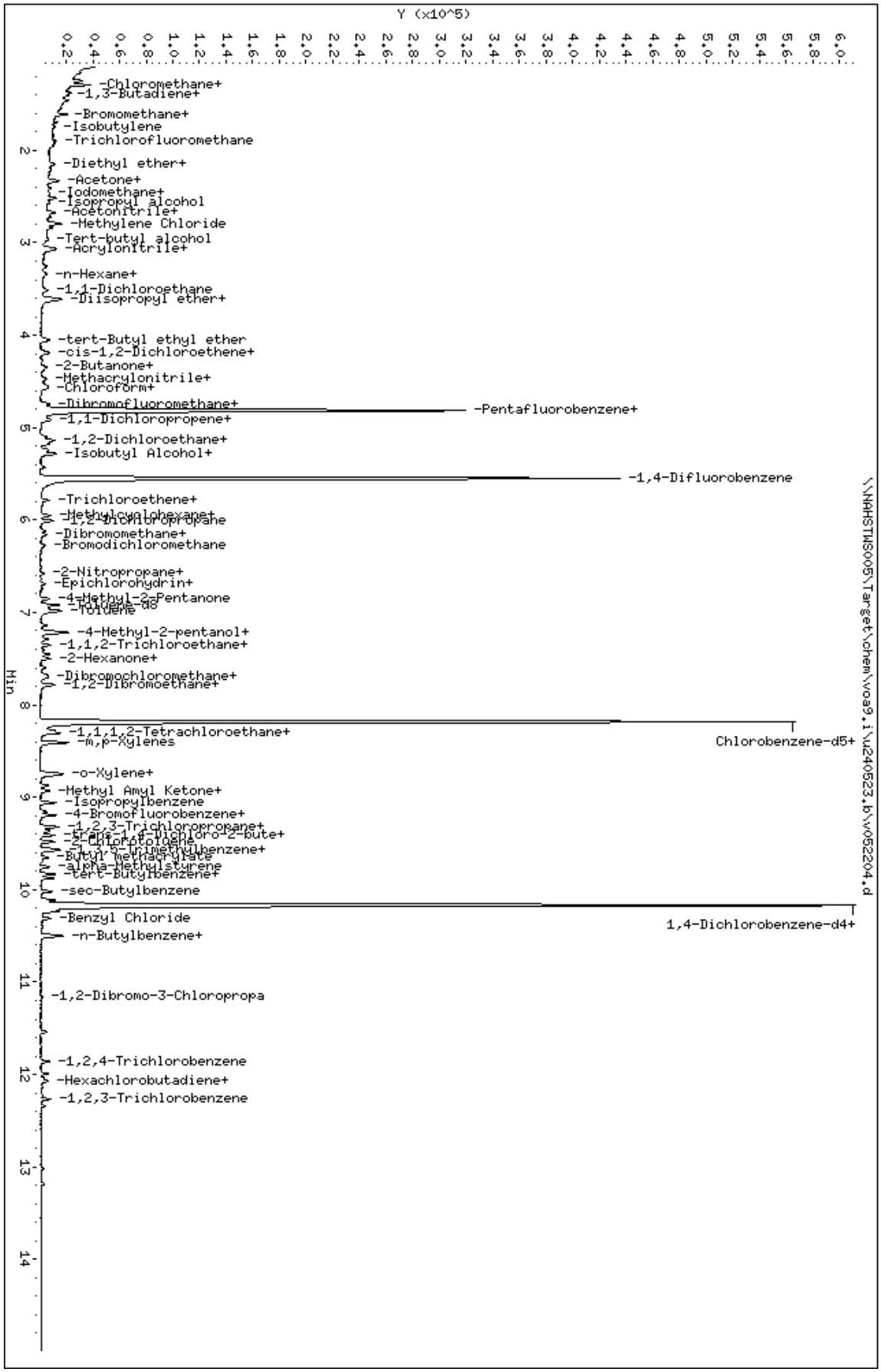
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	4730	1.00000	0.94(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	5606	1.00000	0.96(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	5647	1.00000	0.85(a)
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	4967	1.00000	0.86(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.995)	4451	1.00000	1.18(aM)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	4916	1.00000	1.16(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	5397	1.00000	1.60(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	5689	1.00000	1.01(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	4478	1.00000	1.17(a)
89	1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.098)	232	1.00000	0.85(aM)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	2608	1.00000	1.09(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	961	1.00000	0.91(a)
92	Naphthalene	128	12.069	12.069	(1.187)	4637	1.00000	0.91(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.207)	2359	1.00000	1.05(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	3162	1.00000	1.38(a)
138	Freon TF	101	2.330	2.330	(0.484)	2031	1.00000	0.82(a)
141	Cyclohexane	56	4.815	4.815	(1.000)	6419	1.00000	1.54(aM)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	1504	2.00000	3.46(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	4243	1.00000	1.04(a)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	700	20.0000	26.98(M)
132	n-Butanol	56	5.831	5.831	(1.211)	1043	20.0000	24.17(a)
136	n-Hexane	57	3.342	3.342	(0.694)	1628	1.00000	0.90(Ta)
139	Diethyl ether	59	2.146	2.146	(0.446)	1531	1.00000	1.20(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	3418	20.0000	25.08
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	2808	20.0000	25.56(T)
152	Amyl alcohol	42	7.413	7.413	(0.906)	1088	20.0000	20.11
156	Diisopropyl ether	45	3.619	3.619	(0.752)	7158	1.00000	1.19(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.068)	3200	1.00000	0.98(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	3766	1.00000	1.07(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	10054	1.00000	1.21(aM)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	5825	1.00000	1.07(a)
167	Ethanol	45	2.082	2.082	(0.433)	619	20.0000	27.61(M)
172	tert-Butyl formate	59	5.243	5.243	(1.089)	3423	2.00000	2.59(aM)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	5298	20.0000	25.99(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	5854	1.00000	1.15(a)
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	5932	1.00000	1.16(a)
176	tert-Amyl alcohol	59	5.243	5.243	(1.089)	3423	20.0000	26.07
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	9894	20.0000	19.48
140	1,3-Butadiene	54	1.400	1.400	(0.291)	725	1.00000	0.80(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	539	4.00000	4.36(aM)
M 94	1,2-Dichloroethylene (total)	96				4192	2.00000	(a)
130	Ethyl Acetate	43	4.272	4.272	(0.887)	2292	1.00000	1.02(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.908)	2622	1.00000	1.19(aM)
189	n-Butyl acetate	43	7.705	7.705	(0.942)	3308	1.00000	1.04(aM)
134	Cyclohexanone	55	9.152	9.152	(0.900)	2342	20.0000	25.43(a)
185	Isoprene	39	2.154	2.154	(0.447)	277	1.00000	0.71(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	6126	1.00000	1.07(a)
150	Allyl alcohol	57	3.342	3.342	(0.694)	1628	20.0000	18.17
194	Acetaldehyde	44	1.460	1.460	(0.303)	1439	4.00000	4.65(aM)
195	Methyl Amyl Ketone	43	8.871	8.871	(1.084)	4122	1.00000	1.06(a)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	751	1.00000	0.77(aM)
133	Ethyl Acrylate	55	5.951	5.951	(1.236)	4243	1.00000	1.05(aM)

163 Butyl methacrylate	41	9.651	9.651 (0.949)	2905	1.00000	1.34(a)
159 Propylene oxide	43	2.199	2.199 (0.457)	941	2.00000	5.43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	1428	1.00000	0.92(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Y (x10^5)
Min
-Chloromethane+
-1,3-Butadiene+
-Bromomethane+
-Isobutylene
-Trichlorofluoromethane
-Diethyl ether+
-Acetone+
-Iodomethane+
-Isopropyl alcohol
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Diisopropyl ether+
-tert-Butyl ethyl ether
-cis-1,2-Dichloroethene+
-2-Butanone+
-Methacrylonitrile+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane+
-Epichlorohydrin+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-4-Methyl-2-pentanol+
-1,1,2-Trichloroethane+
-2-Hexanone+
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Methyl Amyl Ketone+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,2,3-Trichloropropane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
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-1,2,3-Trichlorobenzene
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Instrument: VOA9,i
Operator: FT
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Page 1

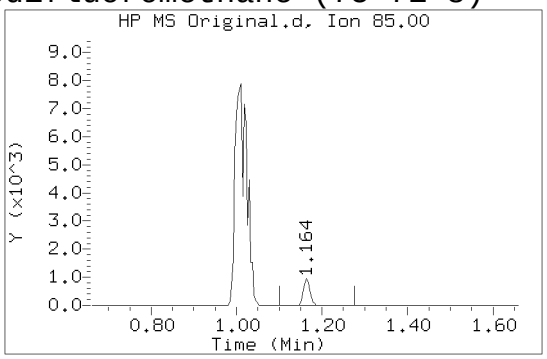
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

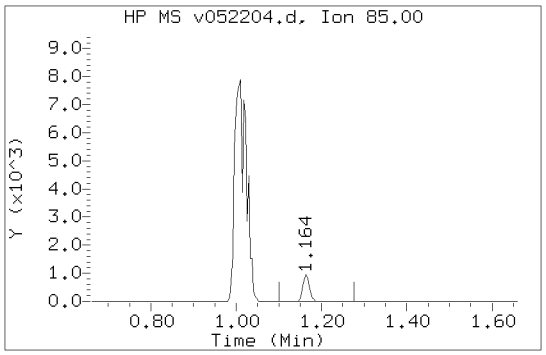
BEFORE

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23-May-2024
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firat
tastan



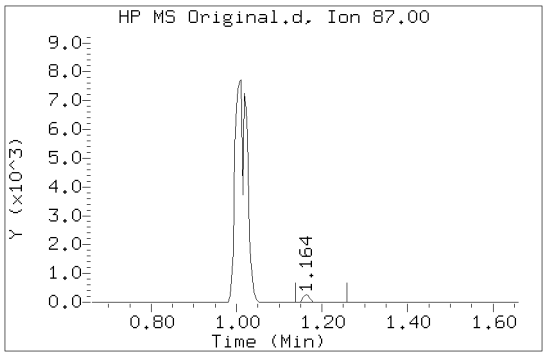
AFTER

MASS
85
AREA
999
HEIGHT
947
23-May-2024
09:51
firat
tastan



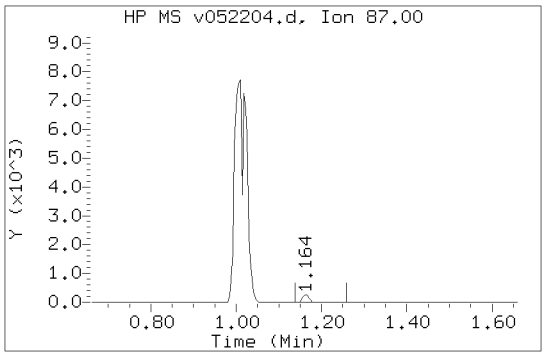
BEFORE

MASS
87
AREA
275
HEIGHT
262
23-May-2024
09:51
firat
tastan



AFTER

MASS
87
AREA
275
HEIGHT
262
23-May-2024
09:51
firat
tastan

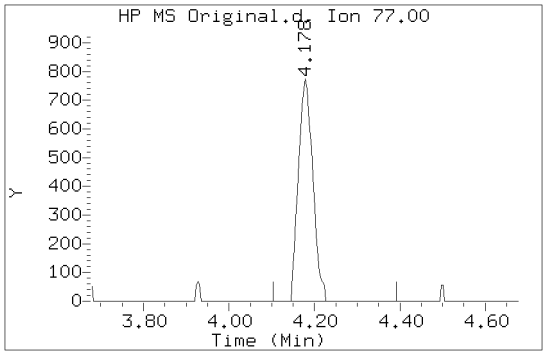


2,2-Dichloropropane (594-20-7)

Reason Code:

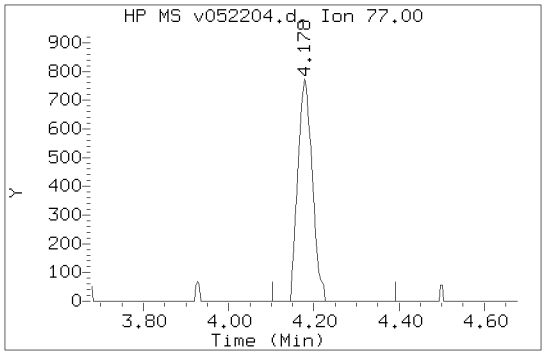
BEFORE

MASS
77
AREA
1844
HEIGHT
774
23-May-2024
09:51
firat
tastan



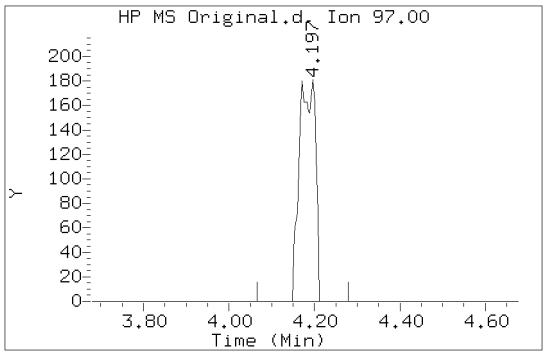
AFTER

MASS
77
AREA
1844
HEIGHT
774
23-May-2024
09:51
firat
tastan



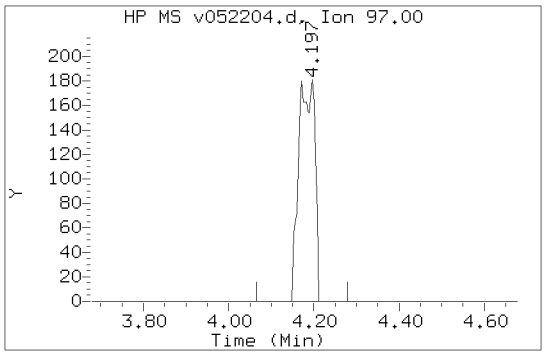
BEFORE

MASS
97
AREA
482
HEIGHT
181
23-May-2024
09:51
firat
tastan



AFTER

MASS
97
AREA
482
HEIGHT
181
23-May-2024
09:51
firat
tastan



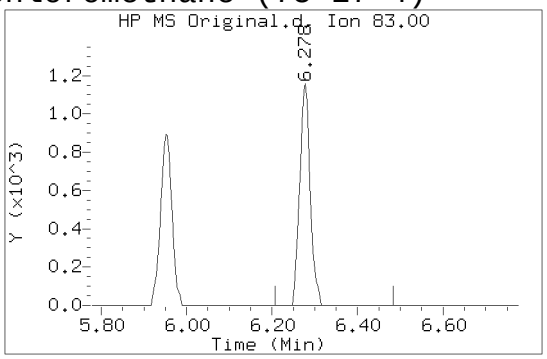
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

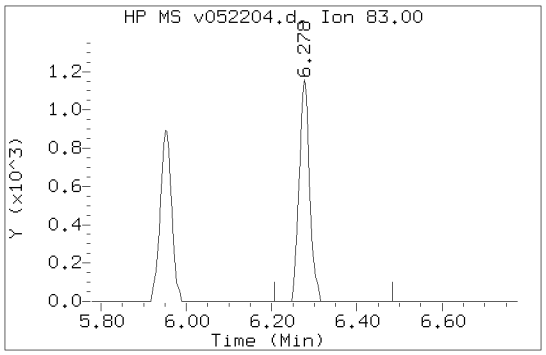
BEFORE

MASS
83
AREA
2013
HEIGHT
1158
23-May-2024
09:51
firat
tastan



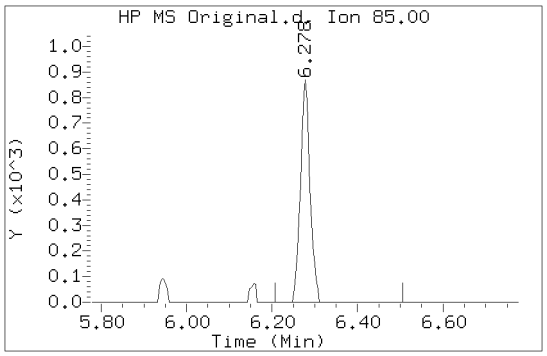
AFTER

MASS
83
AREA
2013
HEIGHT
1158
23-May-2024
09:51
firat
tastan



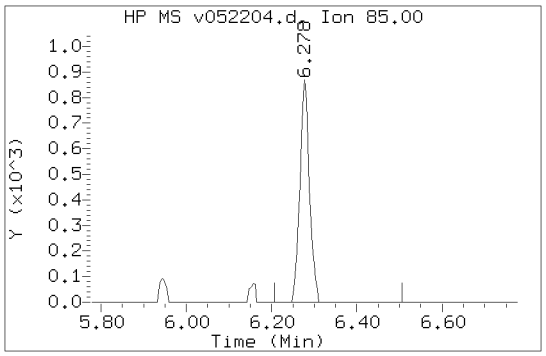
BEFORE

MASS
85
AREA
1383
HEIGHT
869
23-May-2024
09:51
firat
tastan



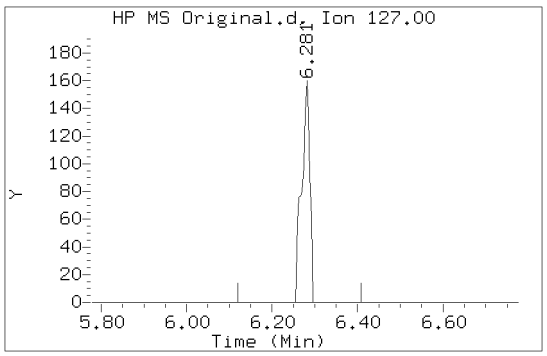
AFTER

MASS
85
AREA
1383
HEIGHT
869
23-May-2024
09:51
firat
tastan



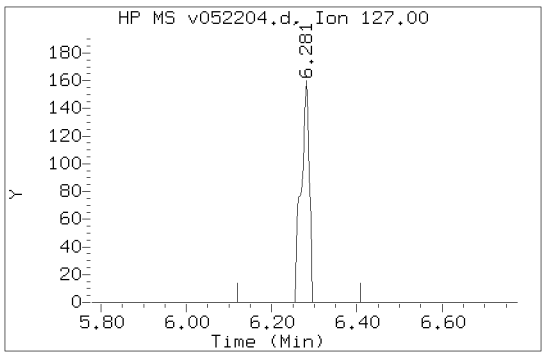
BEFORE

MASS
127
AREA
218
HEIGHT
160
23-May-2024
09:51
firat
tastan



AFTER

MASS
127
AREA
218
HEIGHT
160
23-May-2024
09:51
firat
tastan

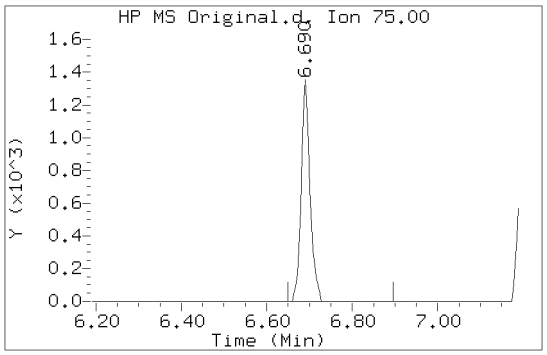


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

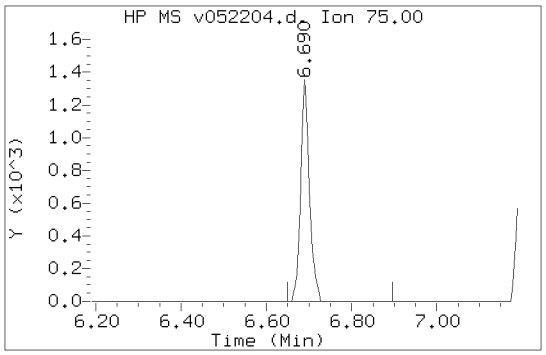
BEFORE

MASS
75
AREA
1996
HEIGHT
1354
23-May-2024
09:51
firat
tastan



AFTER

MASS
75
AREA
1996
HEIGHT
1354
23-May-2024
09:51
firat
tastan



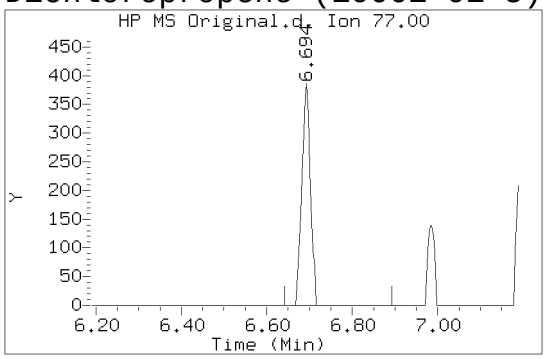
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

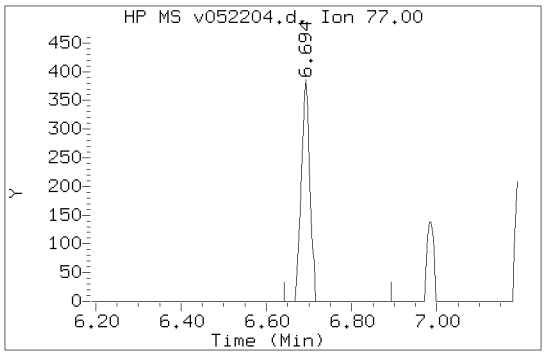
BEFORE

MASS
77
AREA
552
HEIGHT
386
23-May-2024
09:51
firat
tastan



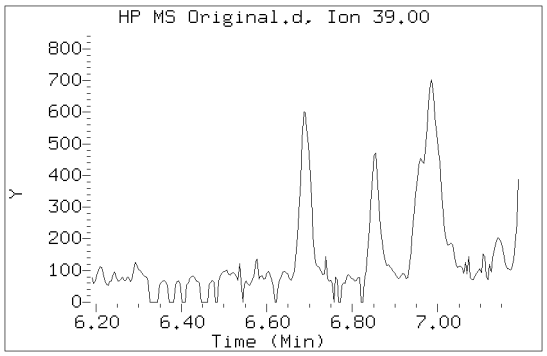
AFTER

MASS
77
AREA
552
HEIGHT
386
23-May-2024
09:51
firat
tastan



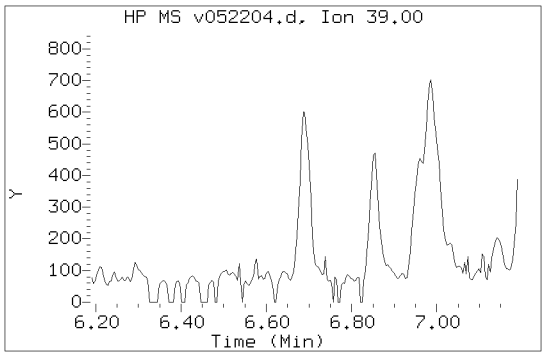
BEFORE

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

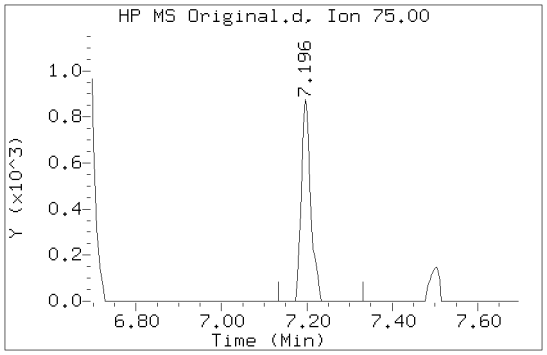


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

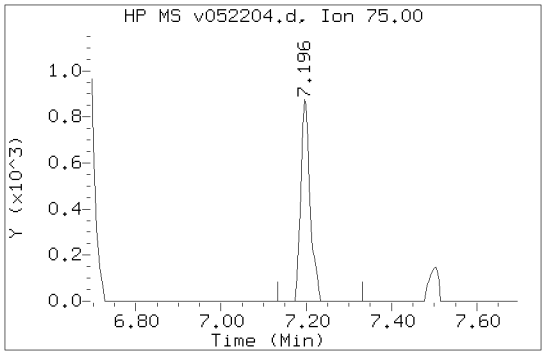
BEFORE

MASS
75
AREA
1359
HEIGHT
876
23-May-2024
09:51
firat
tastan



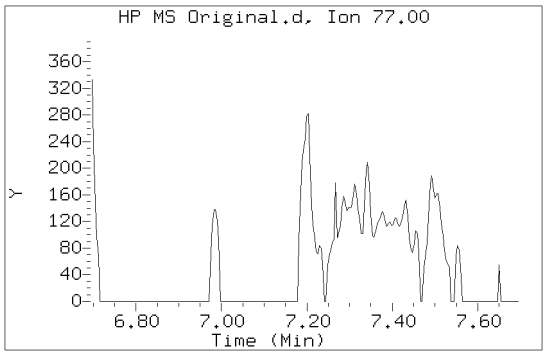
AFTER

MASS
75
AREA
1359
HEIGHT
876
23-May-2024
09:51
firat
tastan



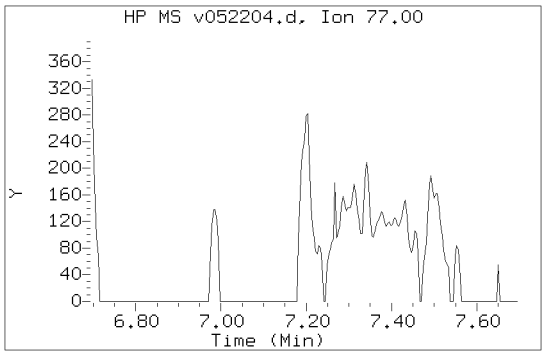
BEFORE

MASS
77
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
77
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



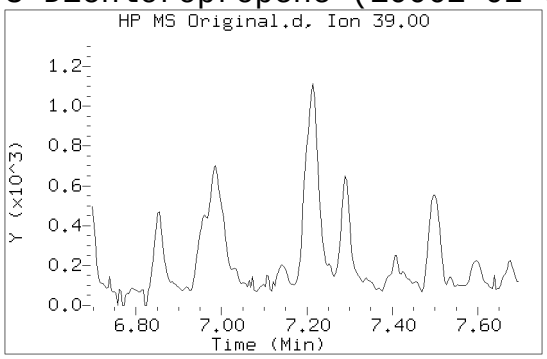
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

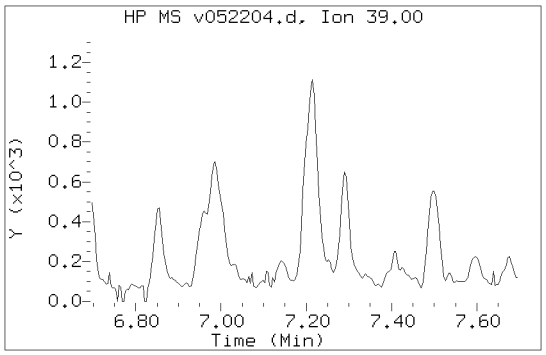
BEFORE

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

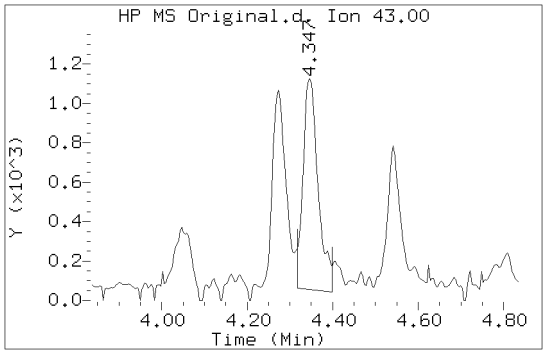


Vinyl Acetate (108-05-4)

Reason Code:

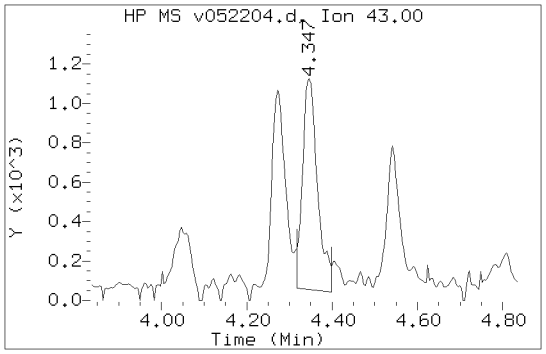
BEFORE

MASS
43
AREA
2690
HEIGHT
1070
23-May-2024
09:51
firat
tastan



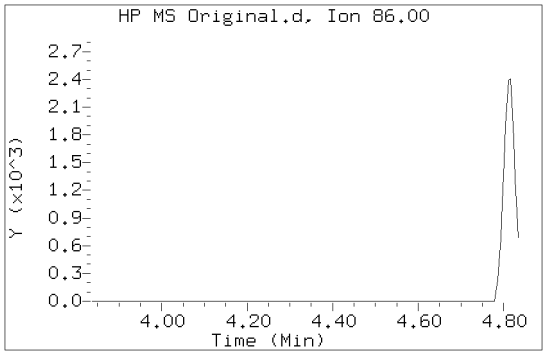
AFTER

MASS
43
AREA
2690
HEIGHT
1070
23-May-2024
09:51
firat
tastan



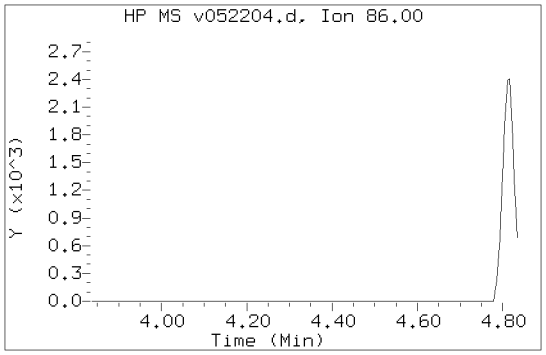
BEFORE

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

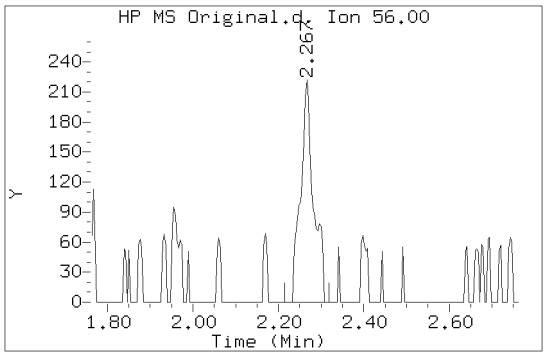


Acrolein (107-02-8)

Reason Code:

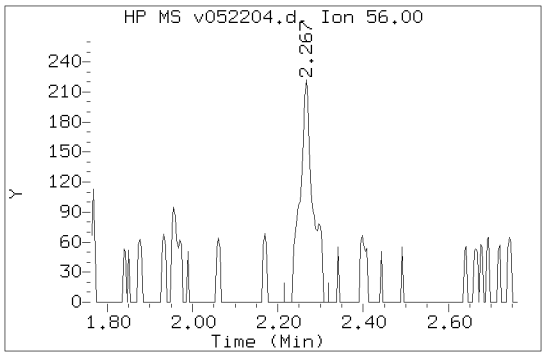
BEFORE

MASS
56
AREA
475
HEIGHT
222
23-May-2024
09:51
firat
tastan



AFTER

MASS
56
AREA
475
HEIGHT
222
23-May-2024
09:51
firat
tastan



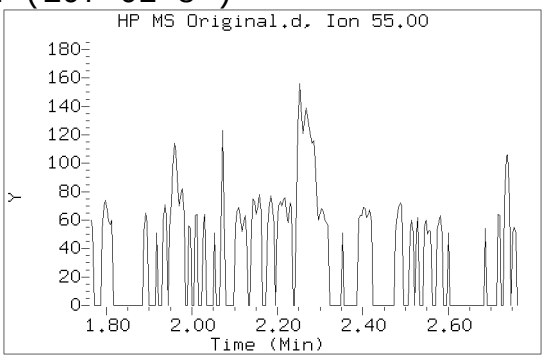
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

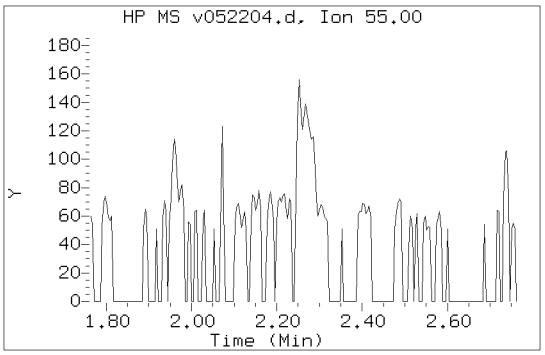
BEFORE

MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

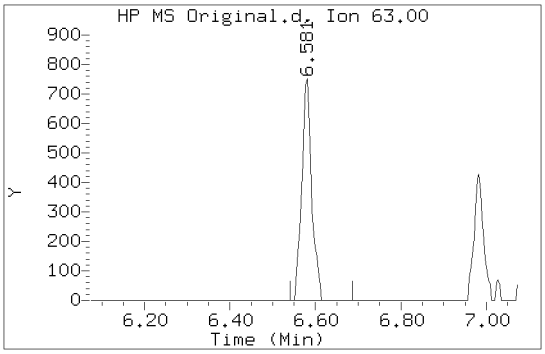


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

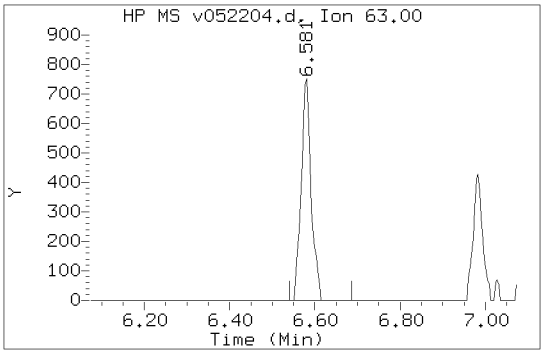
BEFORE

MASS
63
AREA
1242
HEIGHT
752
23-May-2024
09:51
firat
tastan



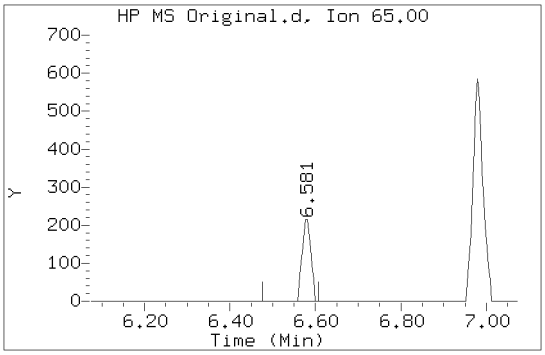
AFTER

MASS
63
AREA
1242
HEIGHT
752
23-May-2024
09:51
firat
tastan



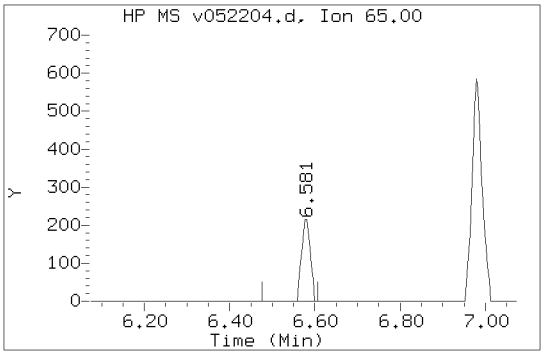
BEFORE

MASS
65
AREA
314
HEIGHT
215
23-May-2024
09:51
firat
tastan



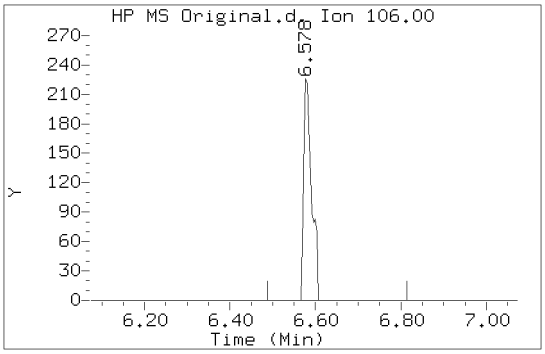
AFTER

MASS
65
AREA
314
HEIGHT
215
23-May-2024
09:51
firat
tastan



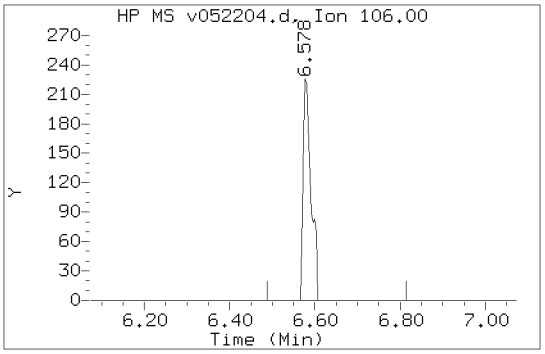
BEFORE

MASS
106
AREA
299
HEIGHT
226
23-May-2024
09:51
firat
tastan



AFTER

MASS
106
AREA
299
HEIGHT
226
23-May-2024
09:51
firat
tastan



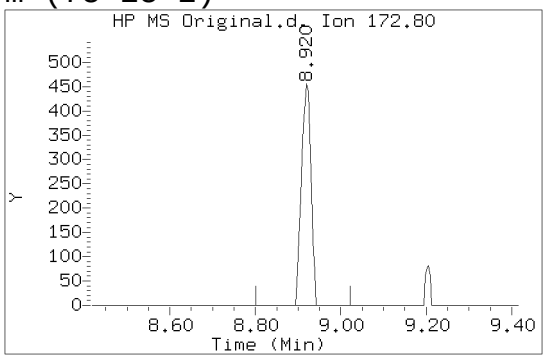
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

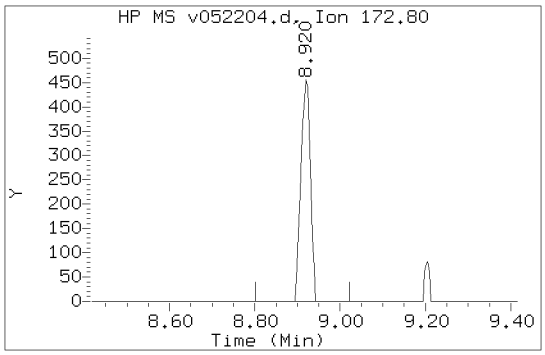
BEFORE

MASS
172.8
AREA
721
HEIGHT
456
23-May-2024
09:51
firat
tastan



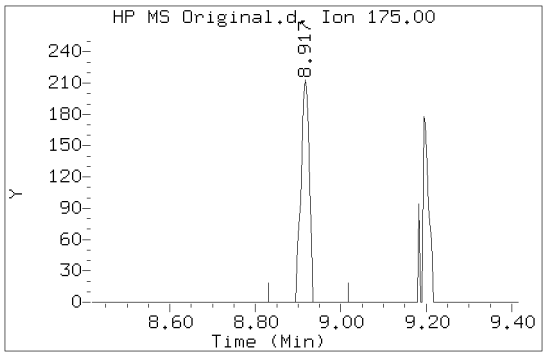
AFTER

MASS
172.8
AREA
721
HEIGHT
456
23-May-2024
09:51
firat
tastan



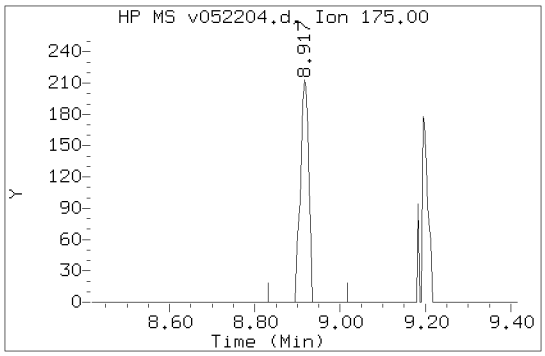
BEFORE

MASS
175
AREA
295
HEIGHT
213
23-May-2024
09:51
firat
tastan



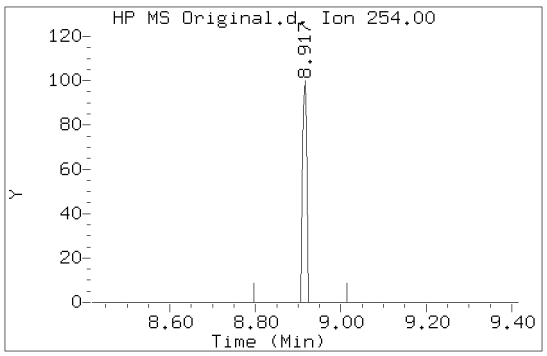
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MASS
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AREA
295
HEIGHT
213
23-May-2024
09:51
firat
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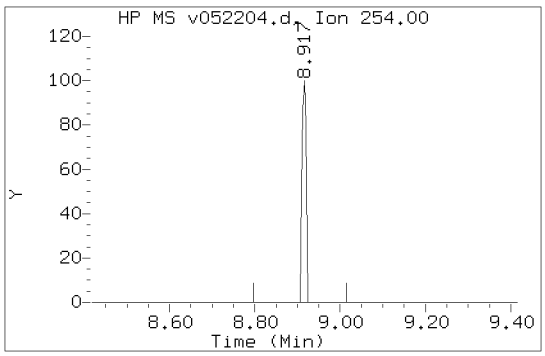
BEFORE

MASS
254
AREA
71
HEIGHT
100
23-May-2024
09:51
firat
tastan



AFTER

MASS
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71
HEIGHT
100
23-May-2024
09:51
firat
tastan

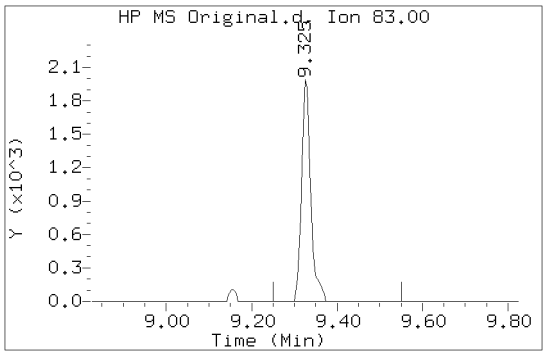


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

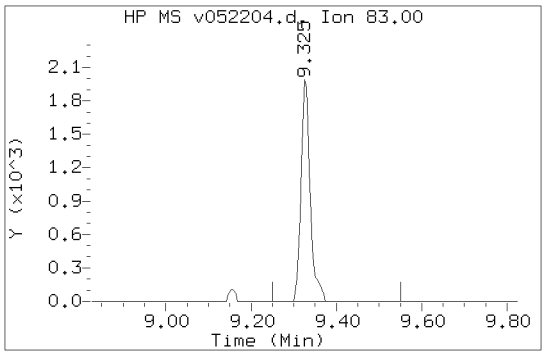
BEFORE

MASS
83
AREA
3041
HEIGHT
1990
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
3041
HEIGHT
1990
23-May-2024
09:51
firat
tastan



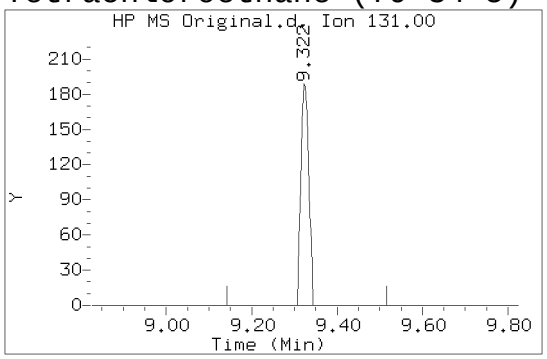
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

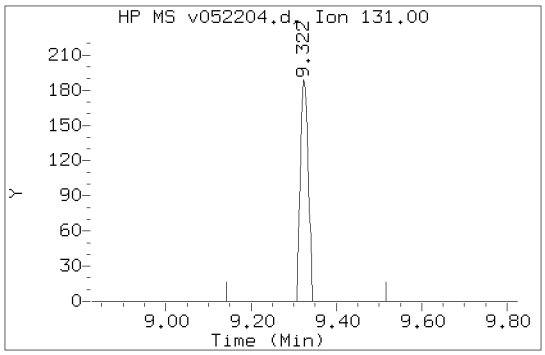
BEFORE

MASS
131
AREA
248
HEIGHT
189
23-May-2024
09:51
firat
tastan



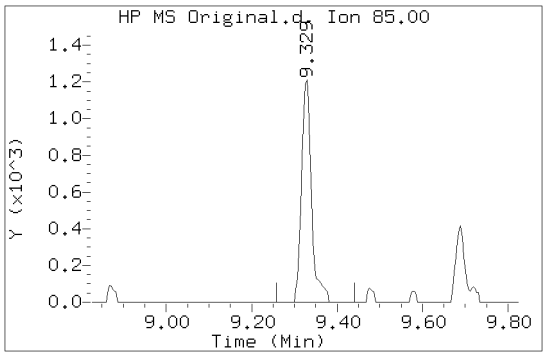
AFTER

MASS
131
AREA
248
HEIGHT
189
23-May-2024
09:51
firat
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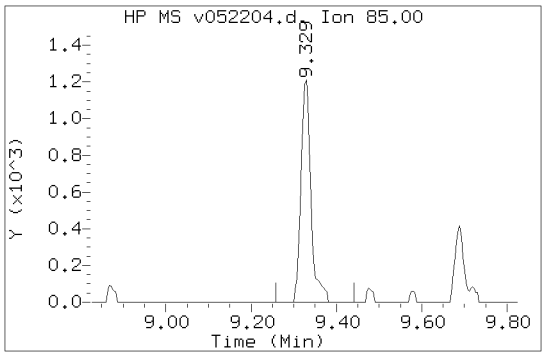
BEFORE

MASS
85
AREA
2022
HEIGHT
1211
23-May-2024
09:51
firat
tastan



AFTER

MASS
85
AREA
2022
HEIGHT
1211
23-May-2024
09:51
firat
tastan

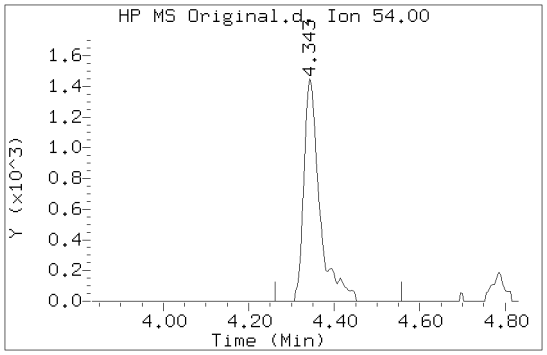


Propionitrile (107-12-0)

Reason Code:

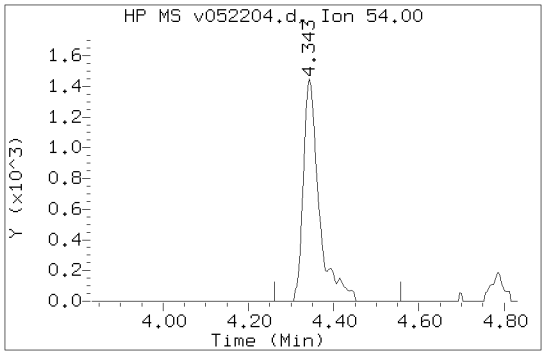
BEFORE

MASS
54
AREA
3786
HEIGHT
1449
23-May-2024
09:51
firat
tastan



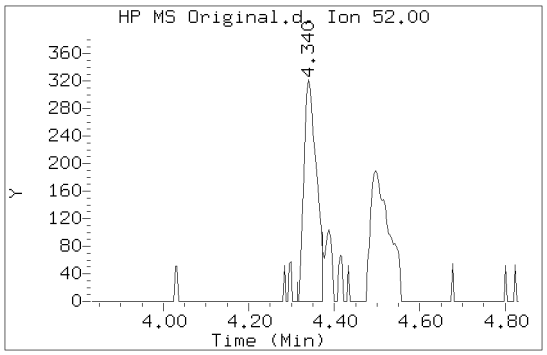
AFTER

MASS
54
AREA
3786
HEIGHT
1449
23-May-2024
09:51
firat
tastan



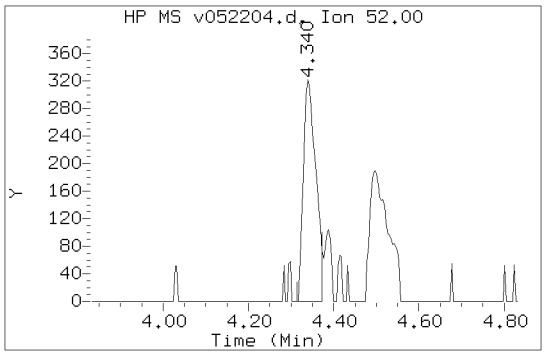
BEFORE

MASS
52
AREA
666
HEIGHT
322
23-May-2024
09:51
firat
tastan



AFTER

MASS
52
AREA
666
HEIGHT
322
23-May-2024
09:51
firat
tastan



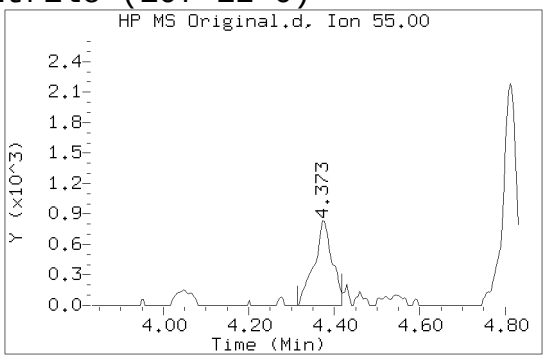
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

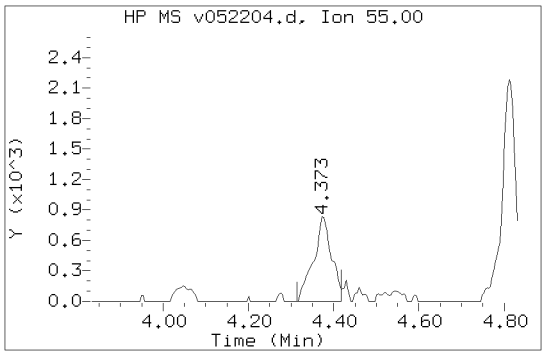
BEFORE

MASS
55
AREA
2474
HEIGHT
835
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
2474
HEIGHT
835
23-May-2024
09:51
firat
tastan

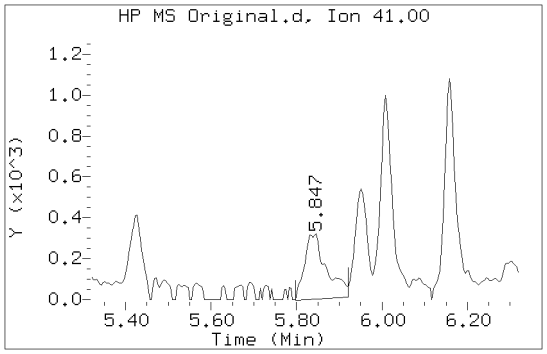


Methyl Methacrylate (80-62-6)

Reason Code:

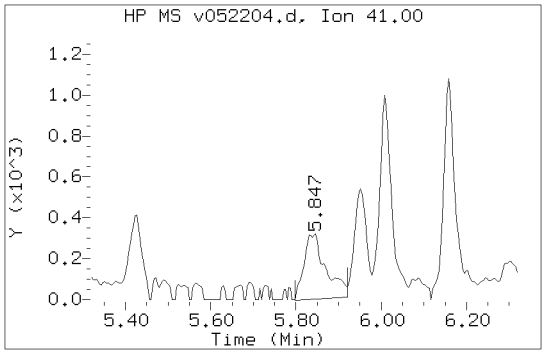
BEFORE

MASS
41
AREA
1155
HEIGHT
319
23-May-2024
09:51
firat
tastan



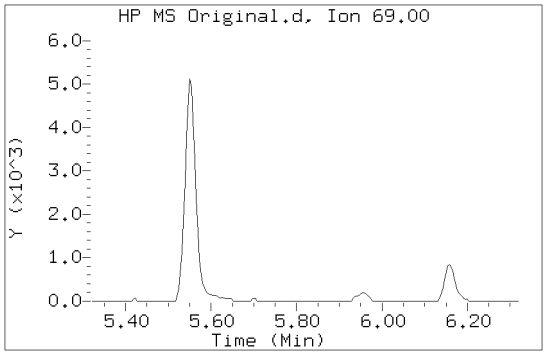
AFTER

MASS
41
AREA
1155
HEIGHT
319
23-May-2024
09:51
firat
tastan



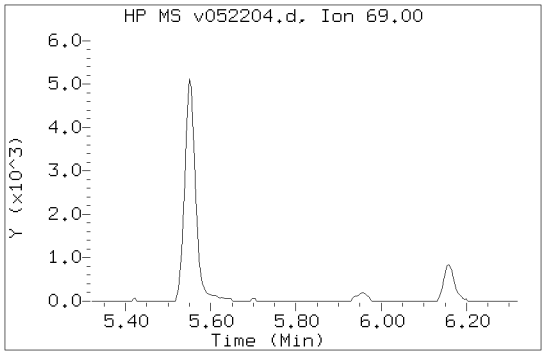
BEFORE

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HEIGHT
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23-May-2024
09:51
firat
tastan



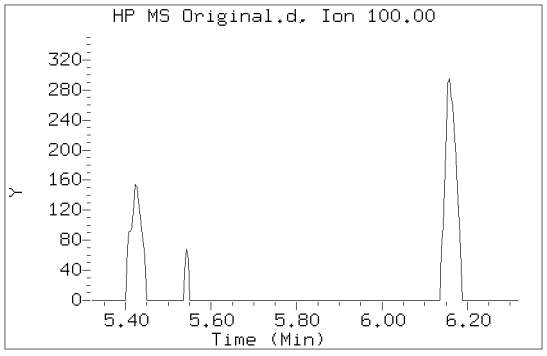
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HEIGHT
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23-May-2024
09:51
firat
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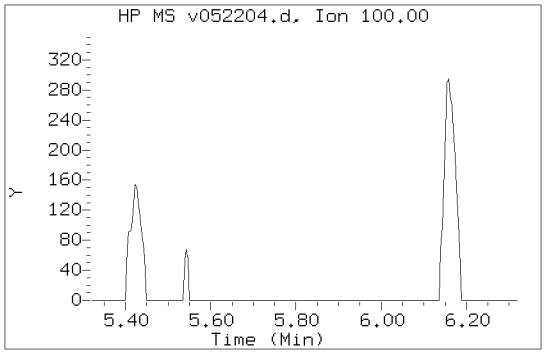
BEFORE

MASS
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
100
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



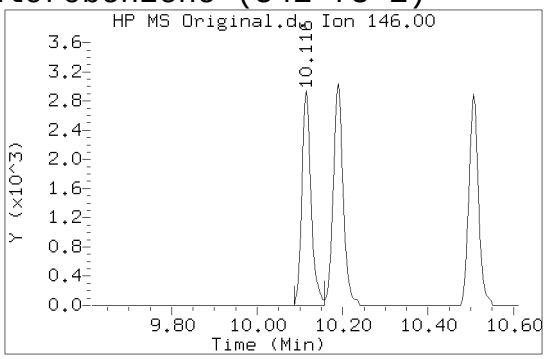
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

1,3-Dichlorobenzene (541-73-1)

Reason Code:

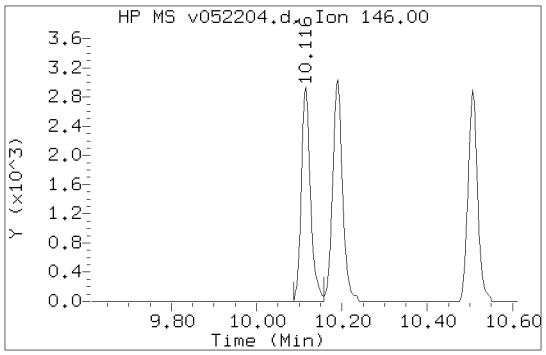
BEFORE

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146
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HEIGHT
2942
23-May-2024
09:51
firat
tastan



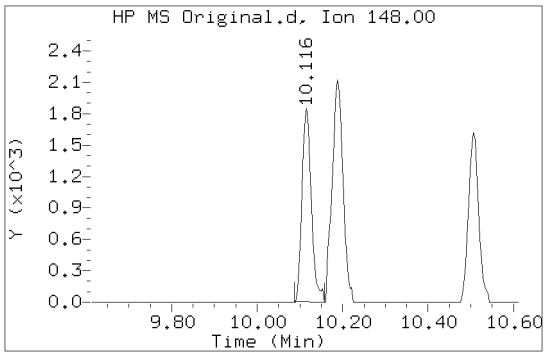
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HEIGHT
2942
23-May-2024
09:51
firat
tastan



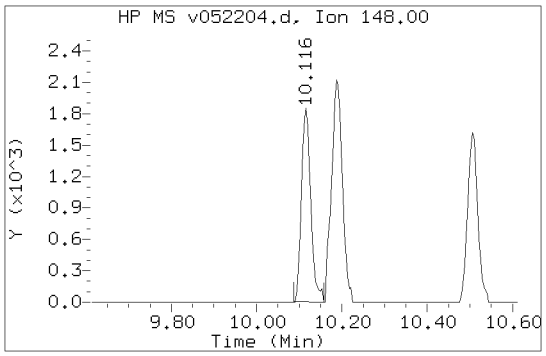
BEFORE

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1849
23-May-2024
09:51
firat
tastan



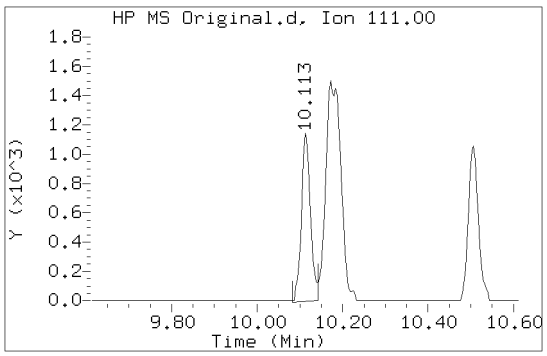
AFTER

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148
AREA
2855
HEIGHT
1849
23-May-2024
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firat
tastan



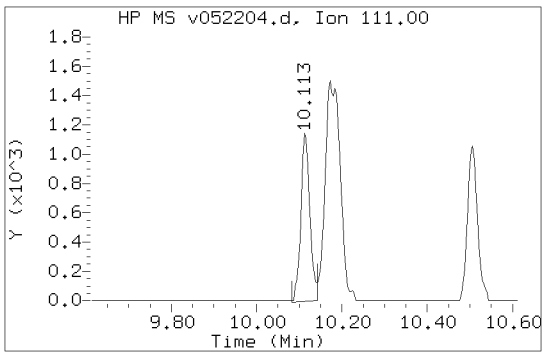
BEFORE

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111
AREA
1727
HEIGHT
1147
23-May-2024
09:51
firat
tastan



AFTER

MASS
111
AREA
1727
HEIGHT
1147
23-May-2024
09:51
firat
tastan

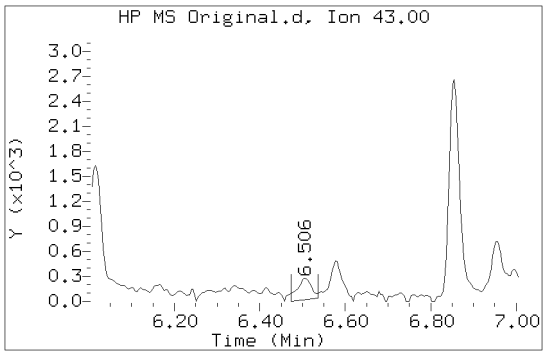


2-Nitropropane (79-46-9)

Reason Code:

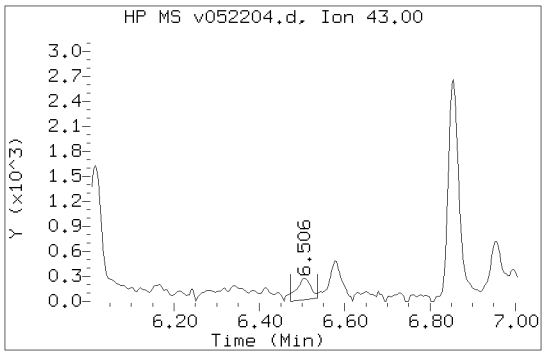
BEFORE

MASS
43
AREA
621
HEIGHT
257
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
621
HEIGHT
257
23-May-2024
09:51
firat
tastan



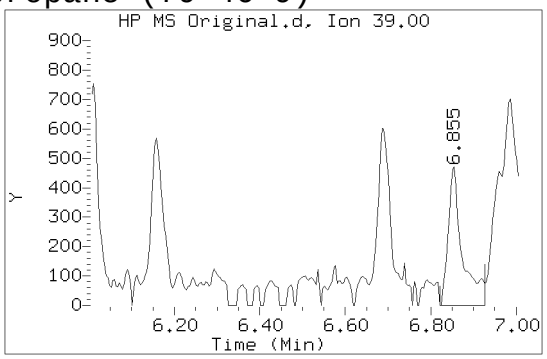
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

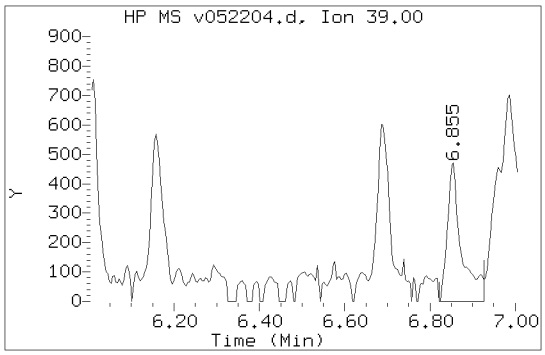
BEFORE

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39
AREA
1085
HEIGHT
471
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
1085
HEIGHT
471
23-May-2024
09:51
firat
tastan

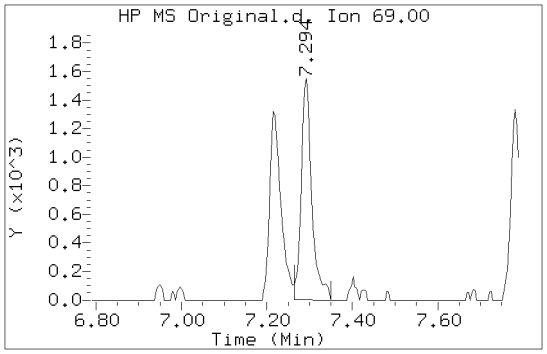


Ethyl Methacrylate (97-63-2)

Reason Code:

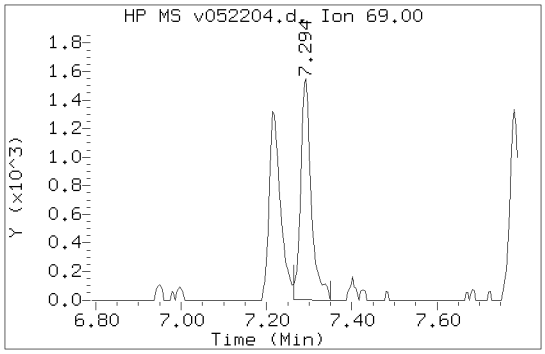
BEFORE

MASS
69
AREA
2724
HEIGHT
1550
23-May-2024
09:51
firat
tastan



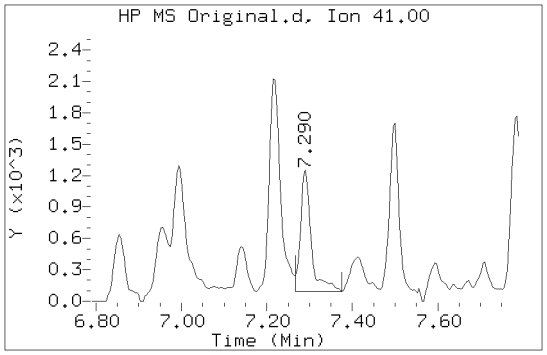
AFTER

MASS
69
AREA
2724
HEIGHT
1550
23-May-2024
09:51
firat
tastan



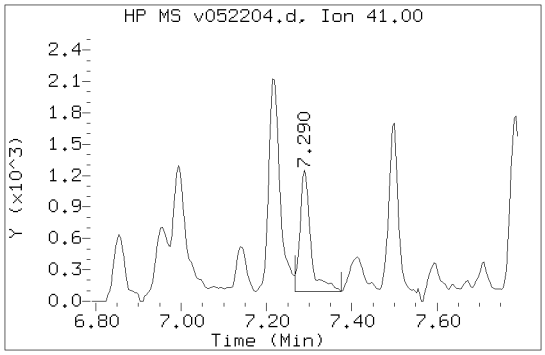
BEFORE

MASS
41
AREA
2068
HEIGHT
1157
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
2068
HEIGHT
1157
23-May-2024
09:51
firat
tastan

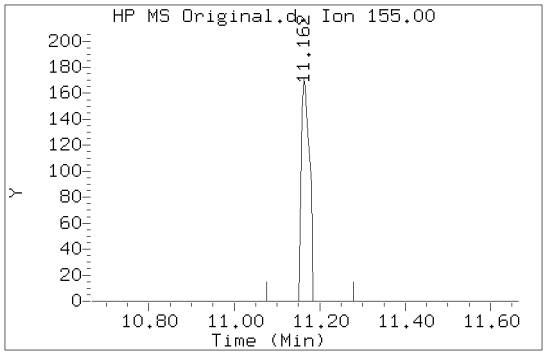


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

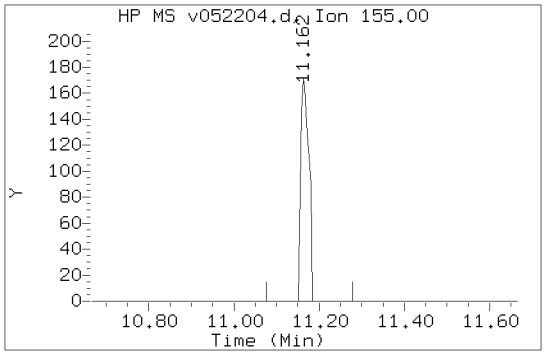
BEFORE

MASS
155
AREA
232
HEIGHT
171
23-May-2024
09:51
firat
tastan



AFTER

MASS
155
AREA
232
HEIGHT
171
23-May-2024
09:51
firat
tastan



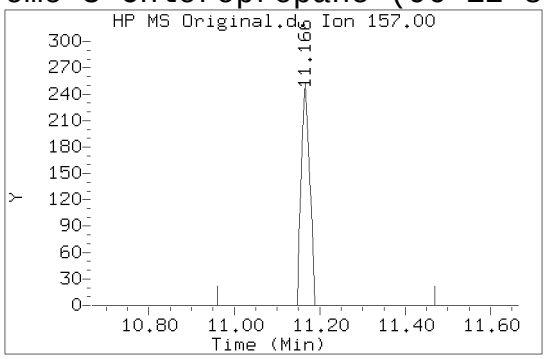
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

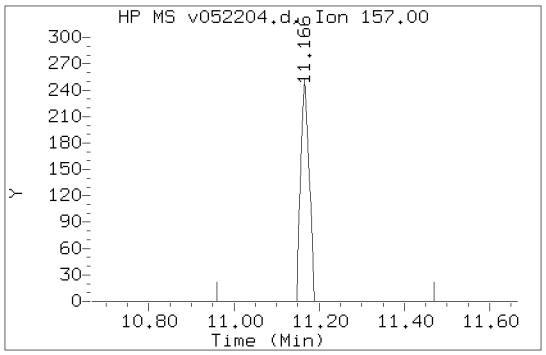
BEFORE

MASS
157
AREA
358
HEIGHT
252
23-May-2024
09:51
firat
tastan



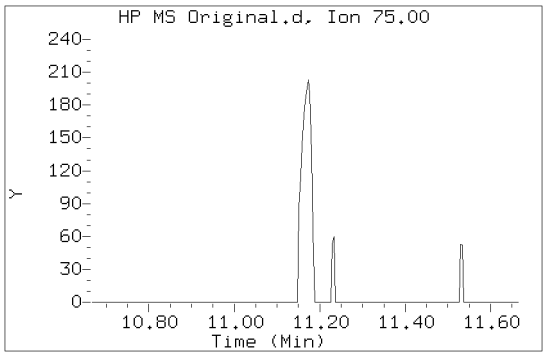
AFTER

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AREA
358
HEIGHT
252
23-May-2024
09:51
firat
tastan



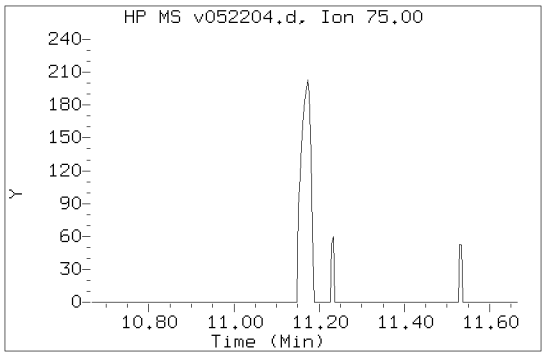
BEFORE

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

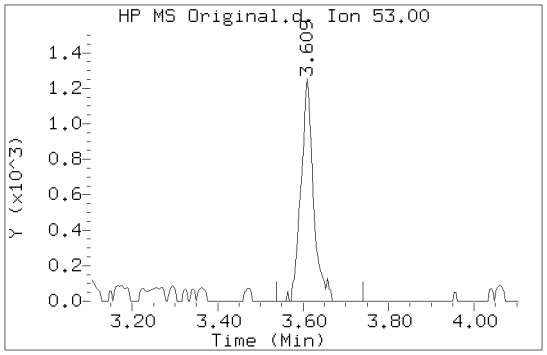


Chloroprene (126-99-8)

Reason Code:

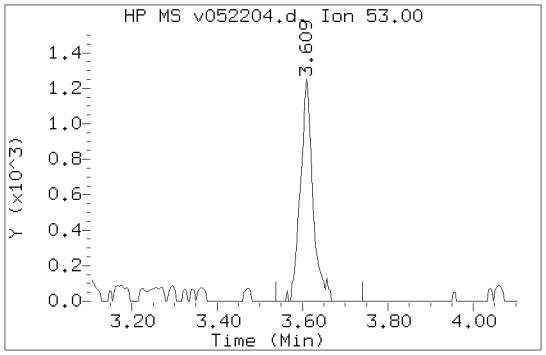
BEFORE

MASS
53
AREA
2599
HEIGHT
1253
23-May-2024
09:51
firat
tastan



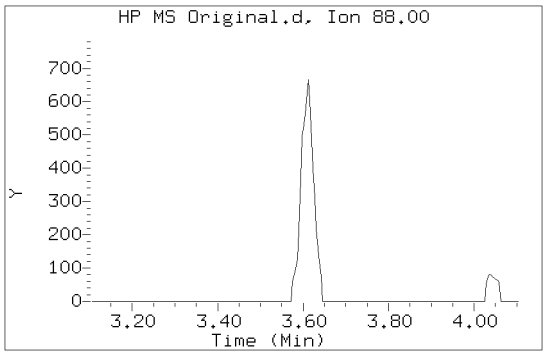
AFTER

MASS
53
AREA
2599
HEIGHT
1253
23-May-2024
09:51
firat
tastan



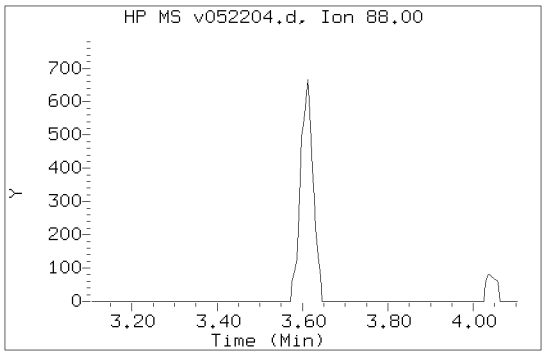
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



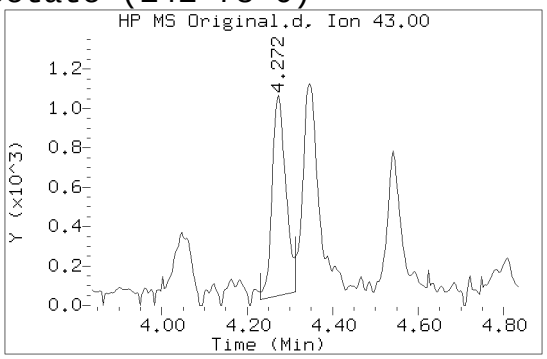
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

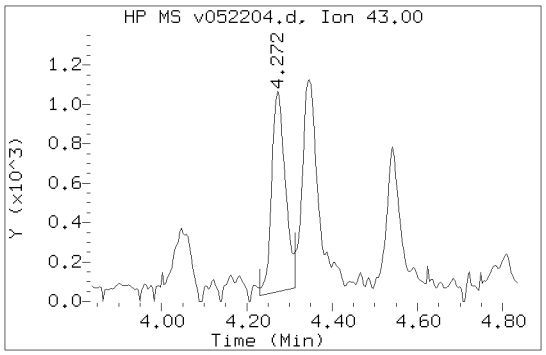
BEFORE

MASS
43
AREA
2292
HEIGHT
1017
23-May-2024
09:51
firat
tastan



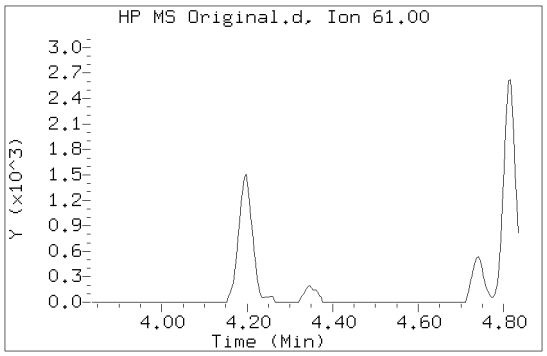
AFTER

MASS
43
AREA
2292
HEIGHT
1017
23-May-2024
09:51
firat
tastan



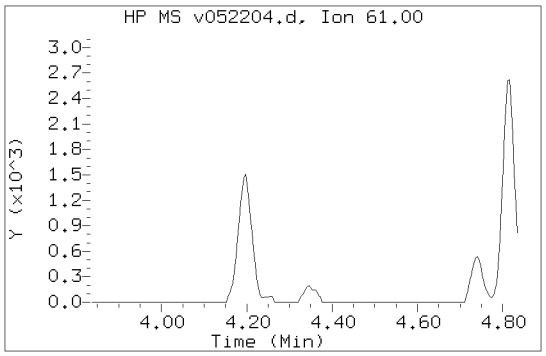
BEFORE

MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



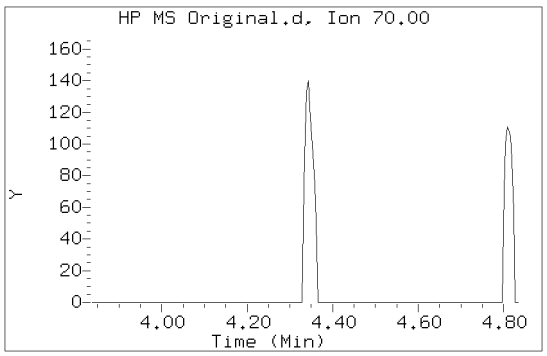
AFTER

MASS
61
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



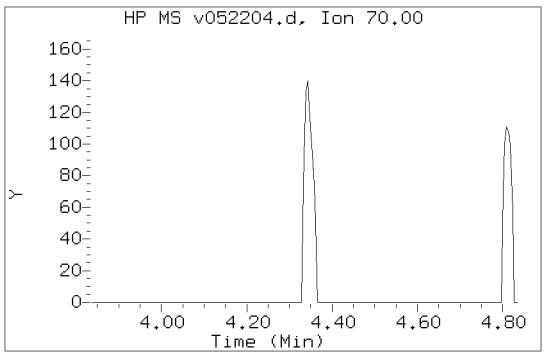
BEFORE

MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
70
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

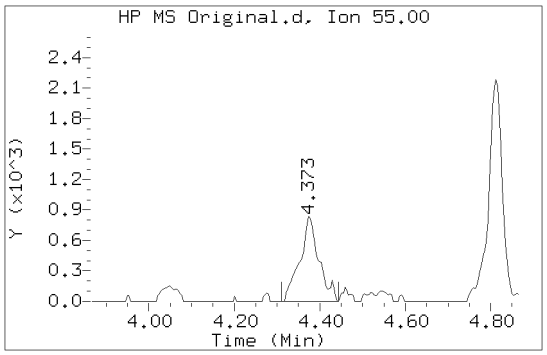


Methyl Acrylate (96-33-3)

Reason Code:

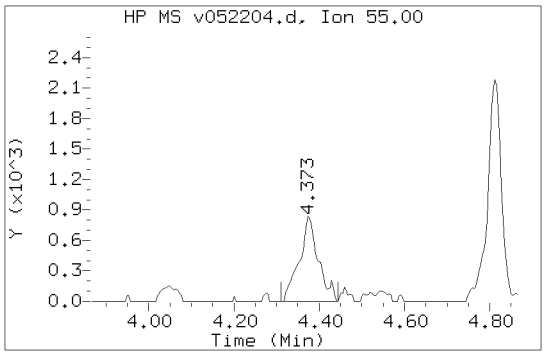
BEFORE

MASS
55
AREA
2622
HEIGHT
835
23-May-2024
09:51
firat
tastan



AFTER

MASS
55
AREA
2622
HEIGHT
835
23-May-2024
09:51
firat
tastan



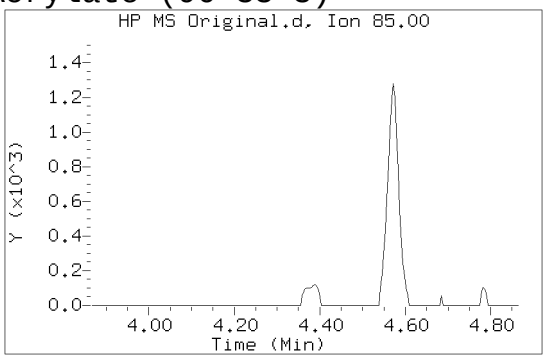
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

Reason Code:

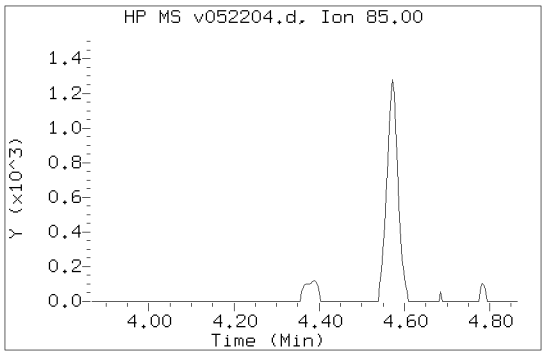
BEFORE

MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

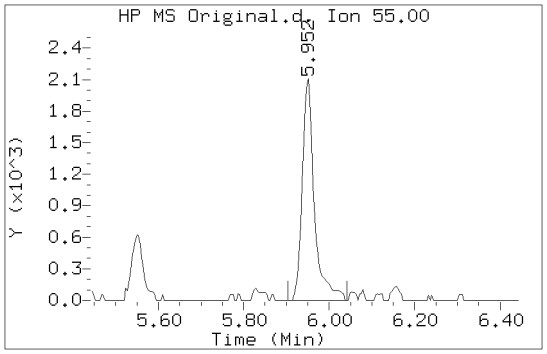


Ethyl Acrylate (140-88-5)

Reason Code:

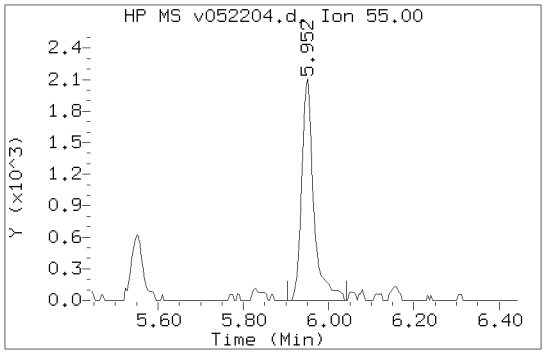
BEFORE

MASS
55
AREA
4243
HEIGHT
2109
23-May-2024
09:51
firat
tastan



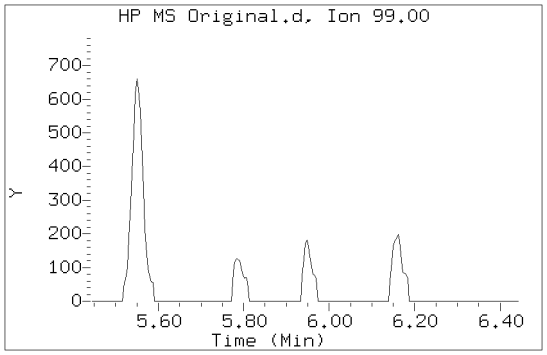
AFTER

MASS
55
AREA
4243
HEIGHT
2109
23-May-2024
09:51
firat
tastan



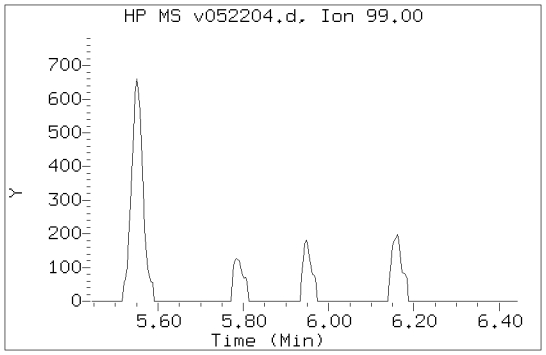
BEFORE

MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

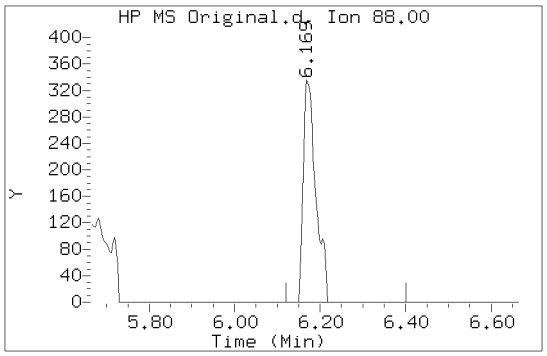


1,4-Dioxane ()

Reason Code:

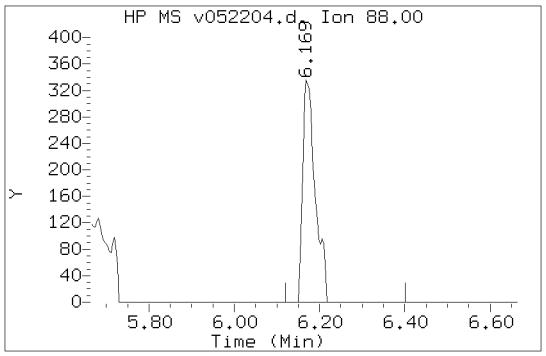
BEFORE

MASS
88
AREA
700
HEIGHT
336
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
700
HEIGHT
336
23-May-2024
09:51
firat
tastan



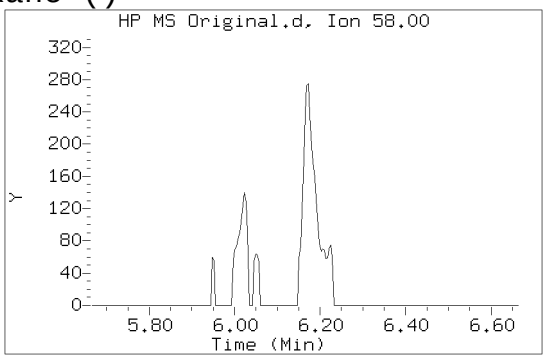
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

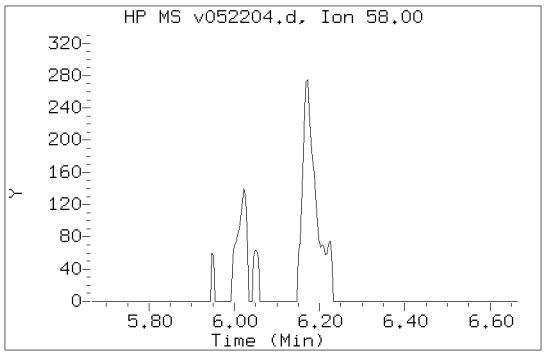
BEFORE

MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
58
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

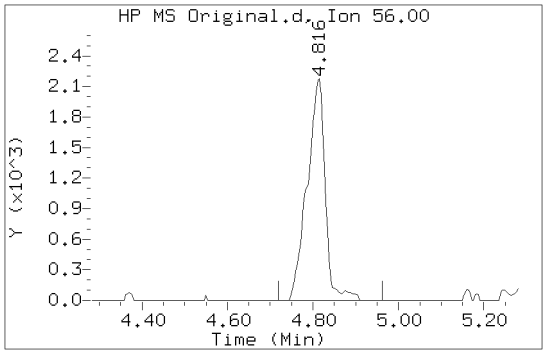


Cyclohexane (110-82-7)

Reason Code:

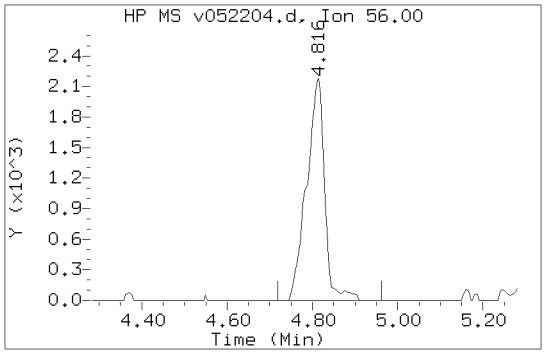
BEFORE

MASS
56
AREA
6419
HEIGHT
2176
23-May-2024
09:51
firat
tastan



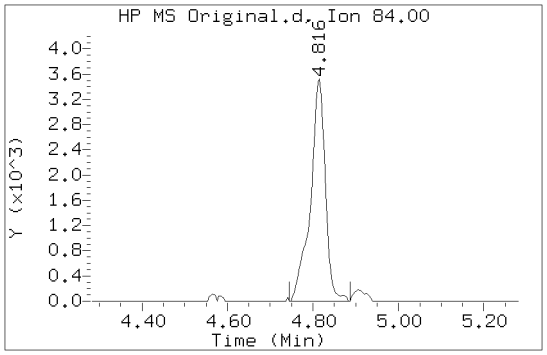
AFTER

MASS
56
AREA
6419
HEIGHT
2176
23-May-2024
09:51
firat
tastan



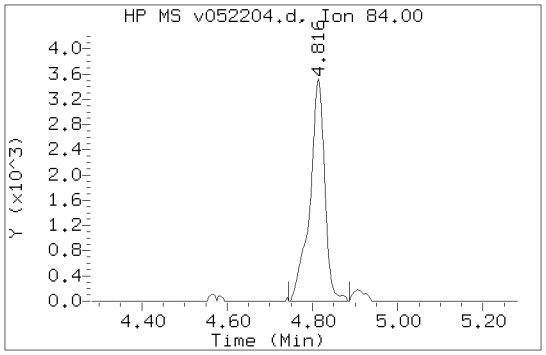
BEFORE

MASS
84
AREA
8594
HEIGHT
3524
23-May-2024
09:51
firat
tastan



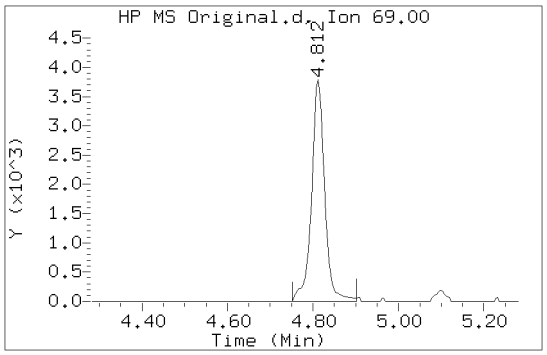
AFTER

MASS
84
AREA
8594
HEIGHT
3524
23-May-2024
09:51
firat
tastan



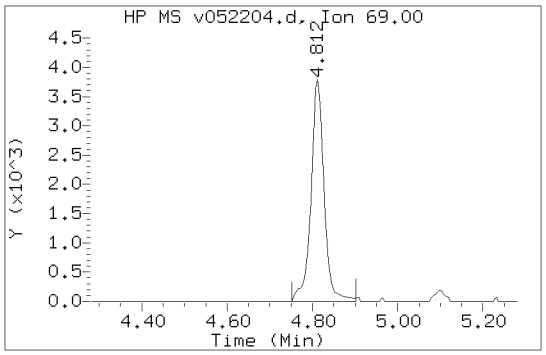
BEFORE

MASS
69
AREA
8082
HEIGHT
3789
23-May-2024
09:51
firat
tastan



AFTER

MASS
69
AREA
8082
HEIGHT
3789
23-May-2024
09:51
firat
tastan

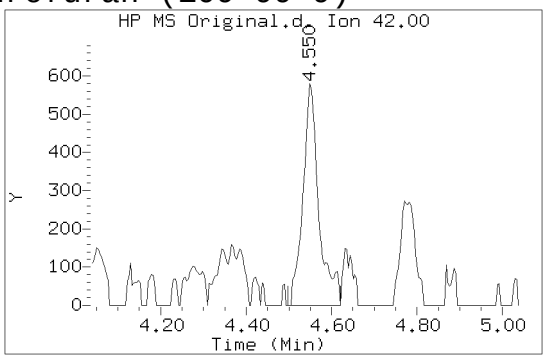


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

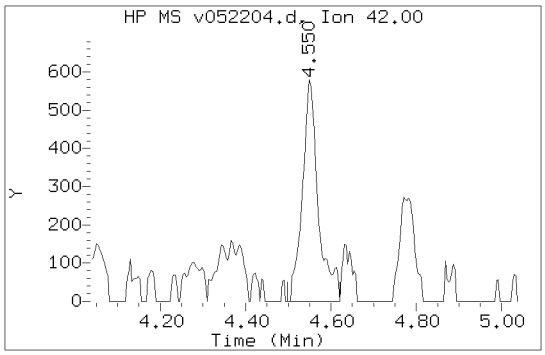
Tetrahydrofuran (109-99-9)

Reason Code:

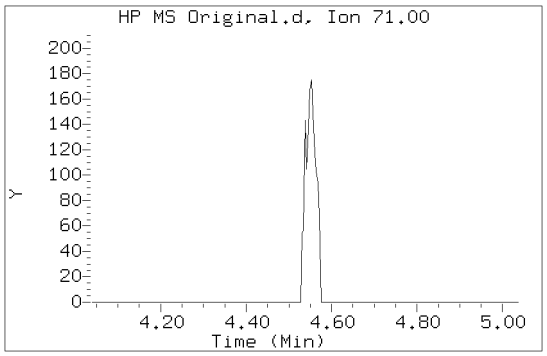
BEFORE
MASS
42
AREA
1504
HEIGHT
580
23-May-2024
09:51
firat
tastan



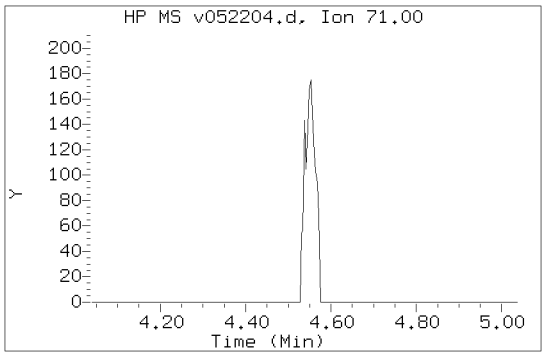
AFTER
MASS
42
AREA
1504
HEIGHT
580
23-May-2024
09:51
firat
tastan



BEFORE
MASS
71
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



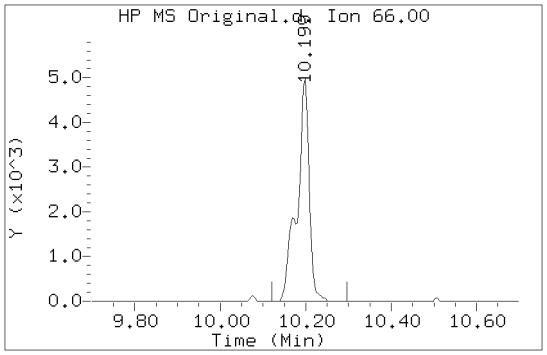
AFTER
MASS
71
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



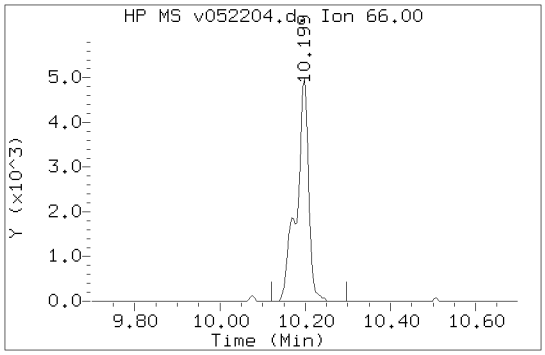
Dicyclopentadiene (77-73-6)

Reason Code:

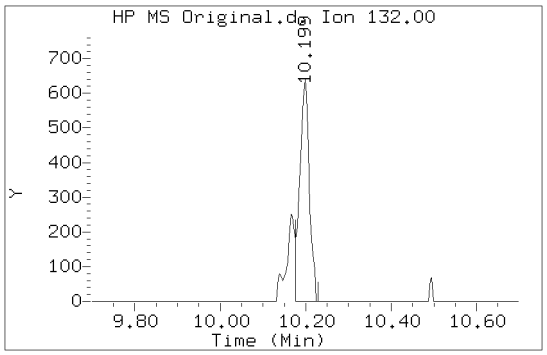
BEFORE
MASS
66
AREA
10054
HEIGHT
4974
23-May-2024
09:51
firat
tastan



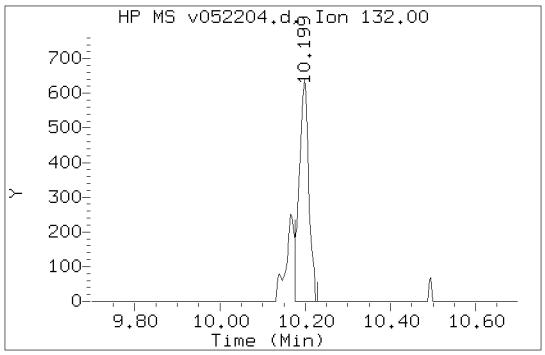
AFTER
MASS
66
AREA
10054
HEIGHT
4974
23-May-2024
09:51
firat
tastan



BEFORE
MASS
132
AREA
1024
HEIGHT
639
23-May-2024
09:51
firat
tastan



AFTER
MASS
132
AREA
1024
HEIGHT
639
23-May-2024
09:51
firat
tastan

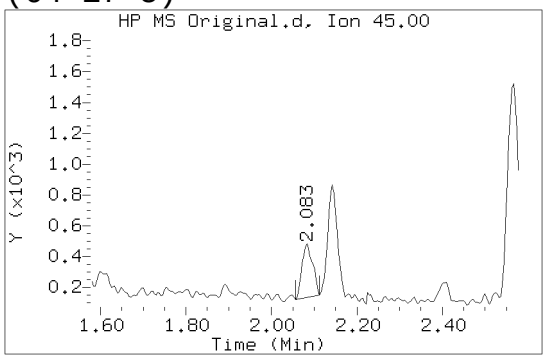


Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052204.d
Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

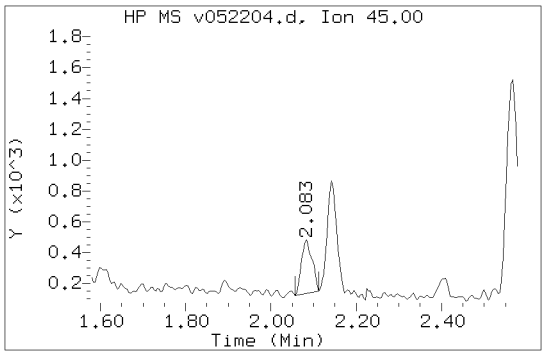
Ethanol (64-17-5)

Reason Code:

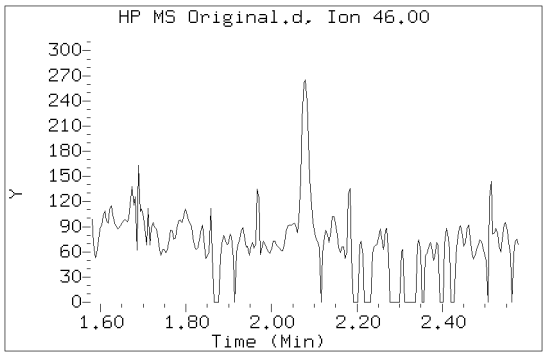
BEFORE
MASS
45
AREA
619
HEIGHT
348
23-May-2024
09:51
firat
tastan



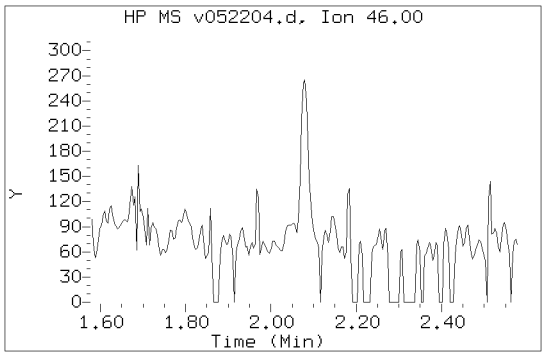
AFTER
MASS
45
AREA
619
HEIGHT
348
23-May-2024
09:51
firat
tastan



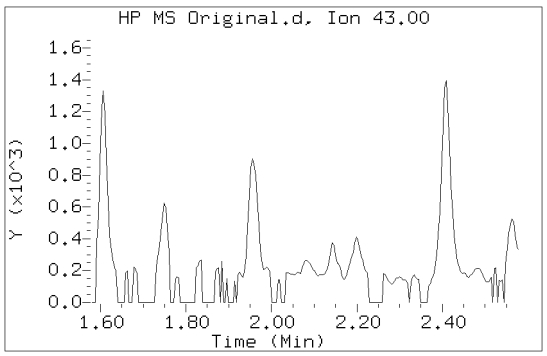
BEFORE
MASS
46
AREA
0
HEIGHT
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23-May-2024
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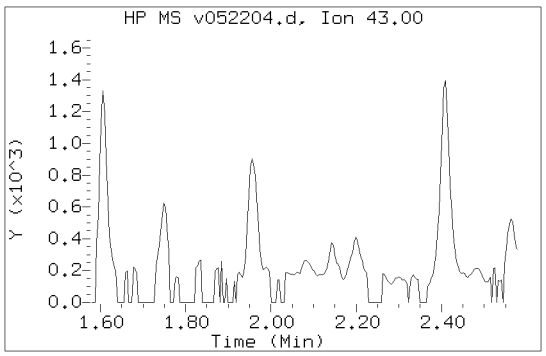
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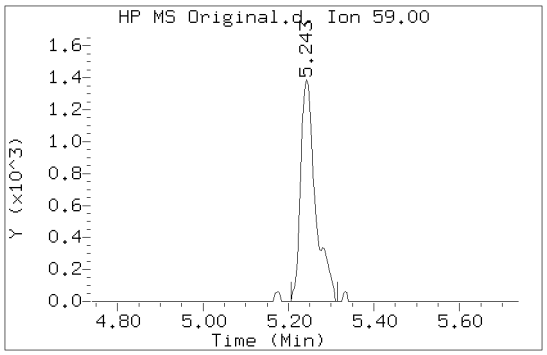
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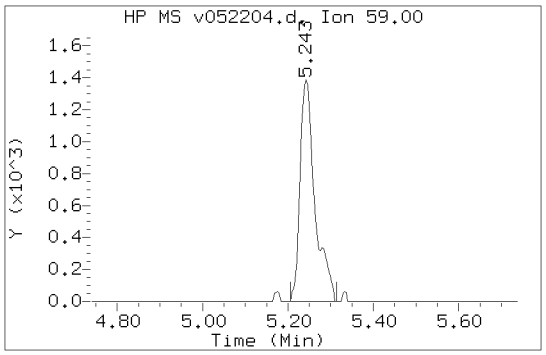
tert-Butyl formate (762-75-4)

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AFTER
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23-May-2024
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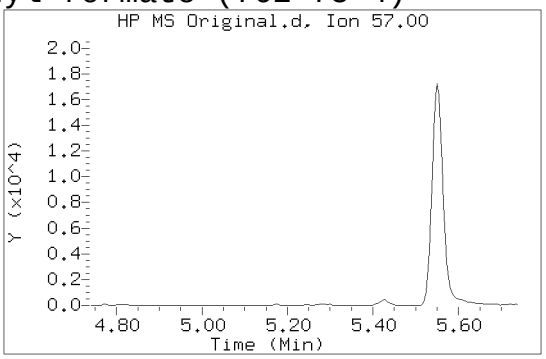
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InstruID : VOA9.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

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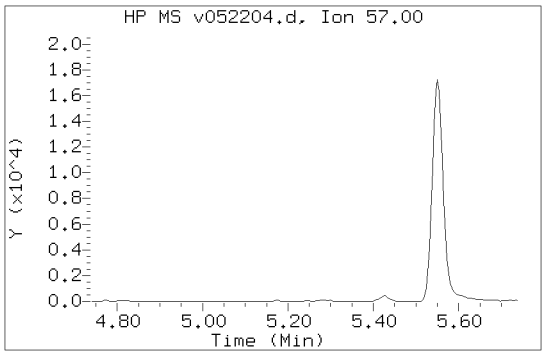
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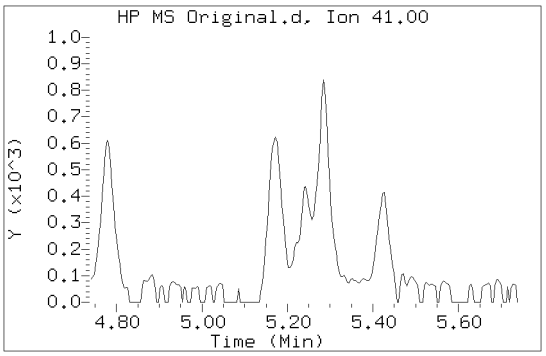
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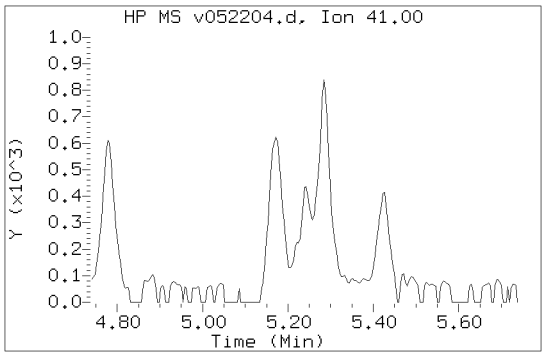
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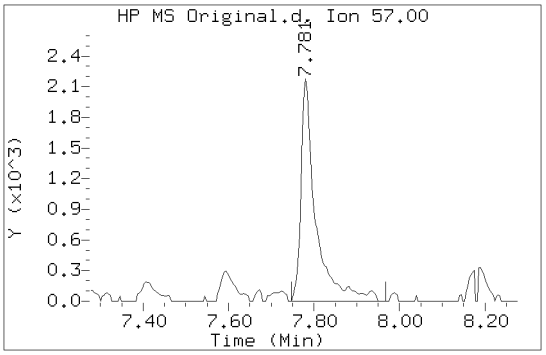


3,3-Dimethyl-1-butanol (624-95-3)

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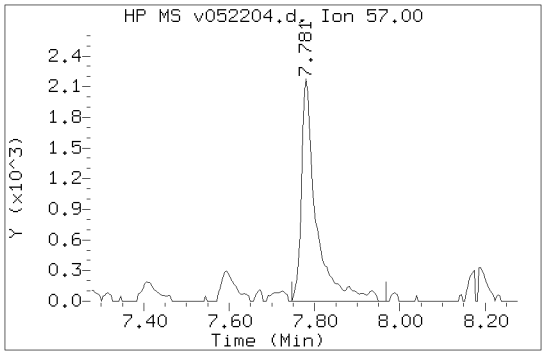
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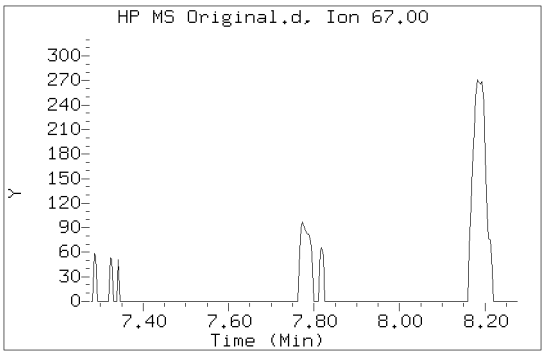
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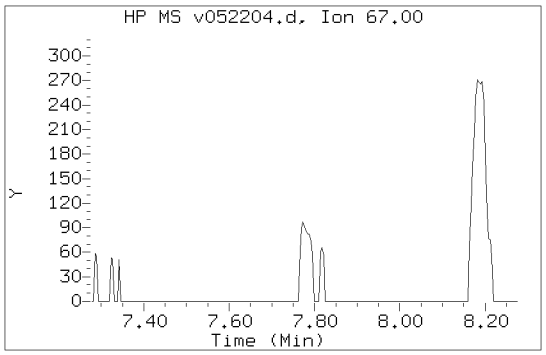
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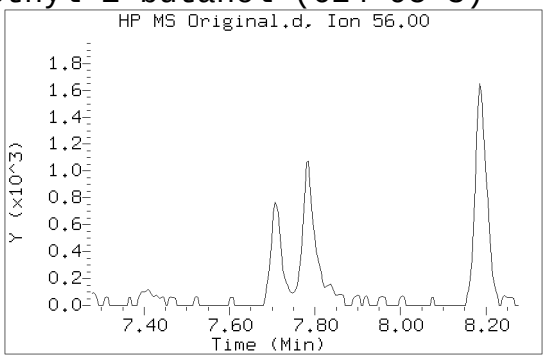
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InstruID : VOA9.i
LabSampID : VSTD001

3,3-Dimethyl-1-butanol (624-95-3)

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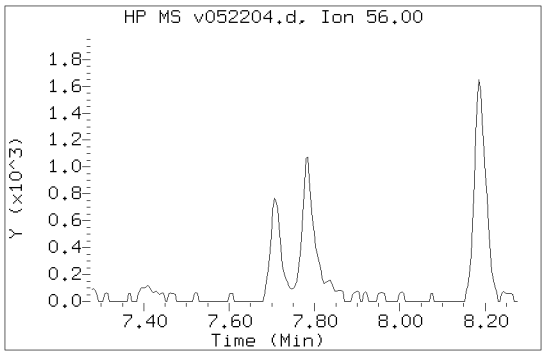
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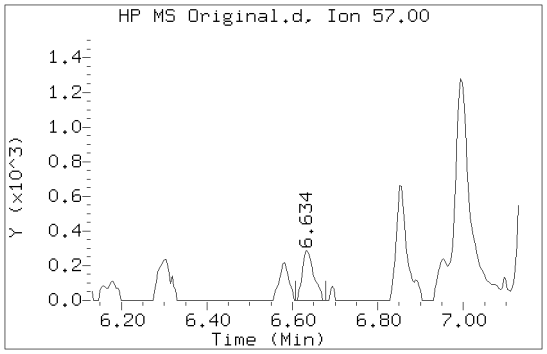


Epichlorohydrin (106-89-8)

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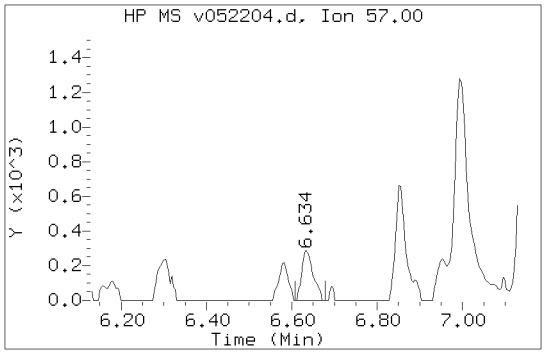
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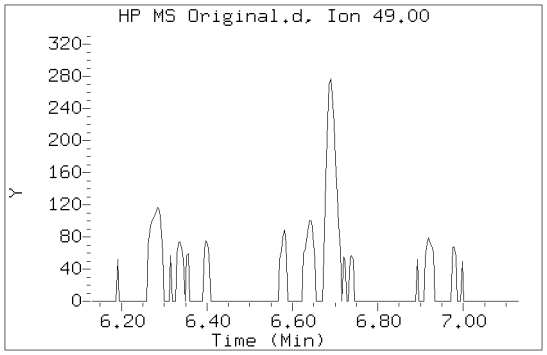
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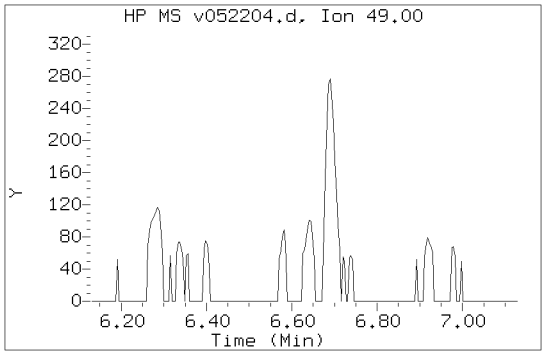
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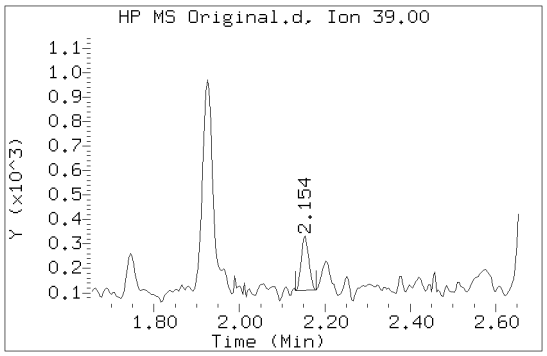


Isoprene (78-79-5)

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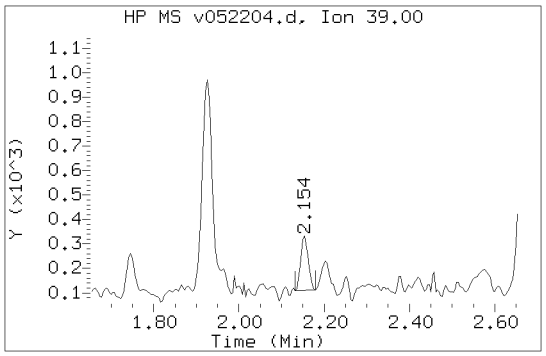
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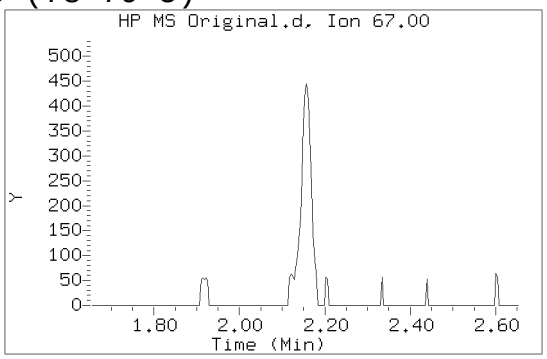


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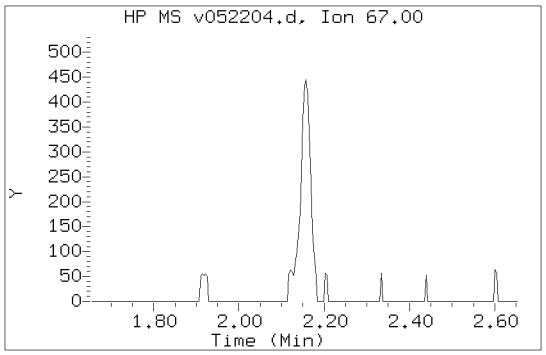
Isoprene (78-79-5)

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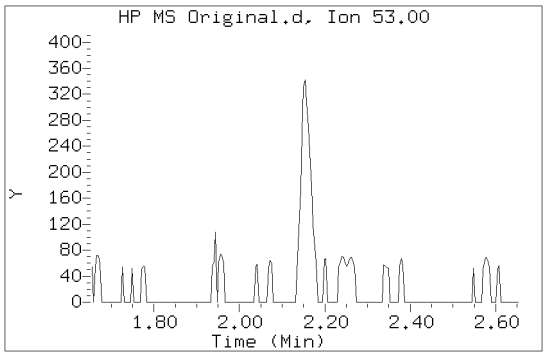
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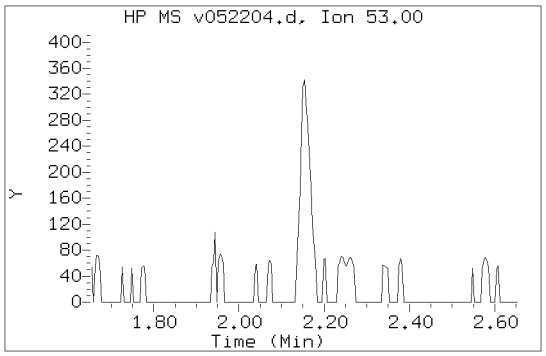
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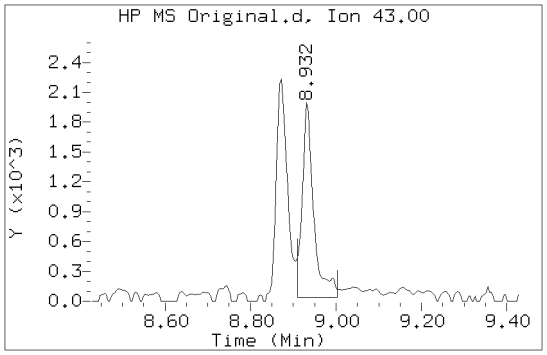
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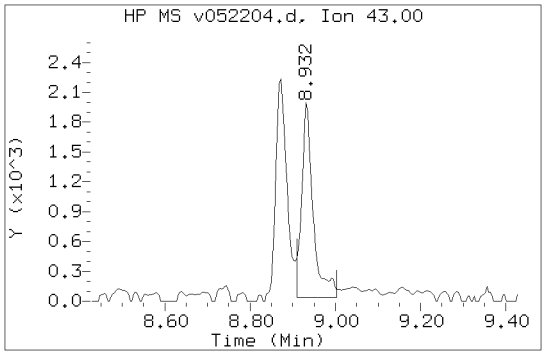
n-Amyl acetate (628-63-7)

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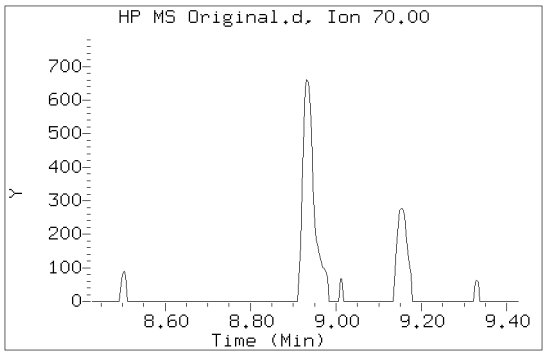
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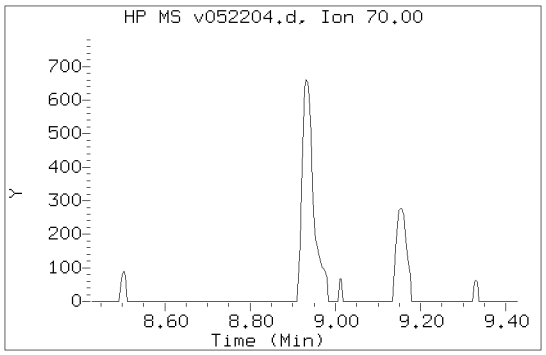
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BEFORE
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AFTER
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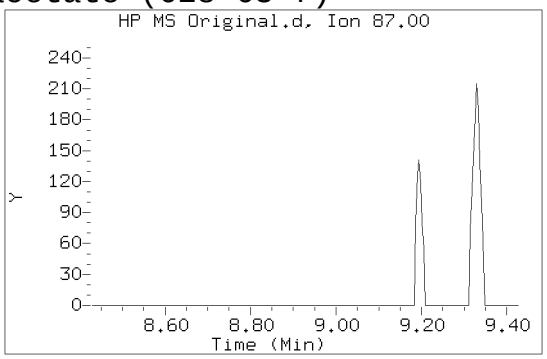
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InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

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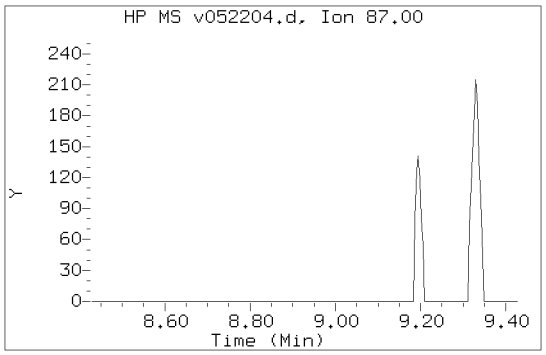
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AFTER

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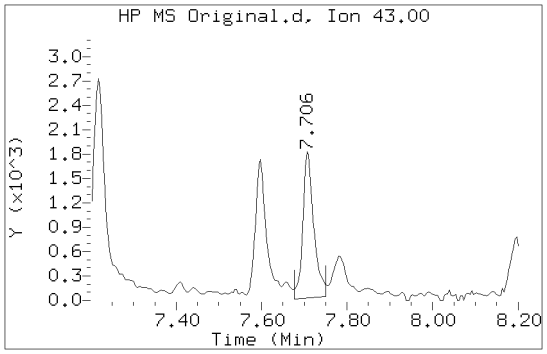


n-Butyl acetate (123-86-4)

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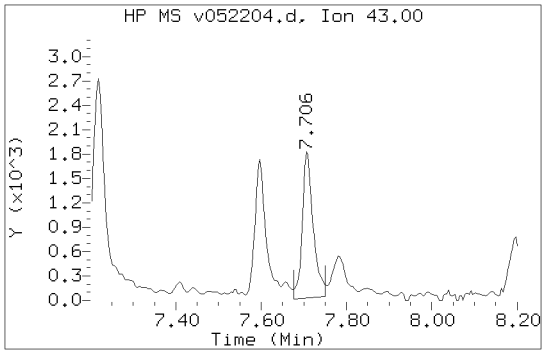
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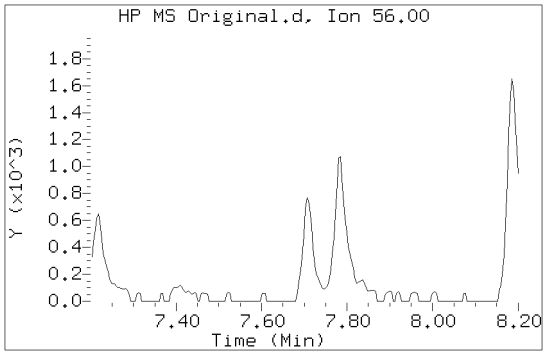
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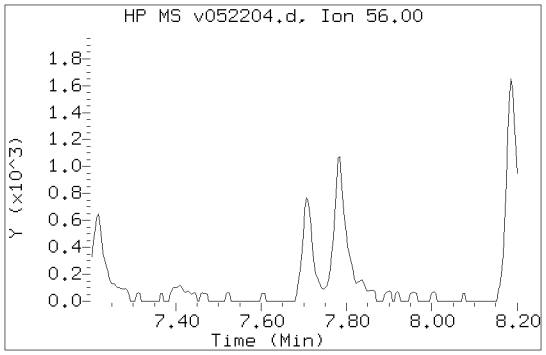
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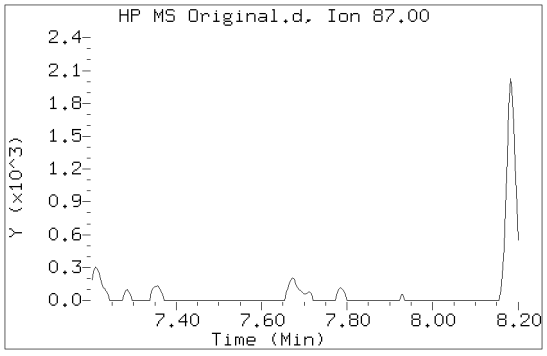
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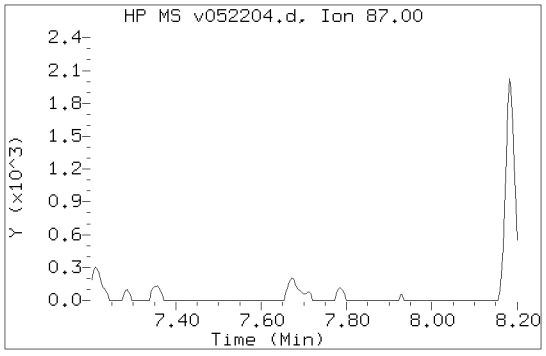
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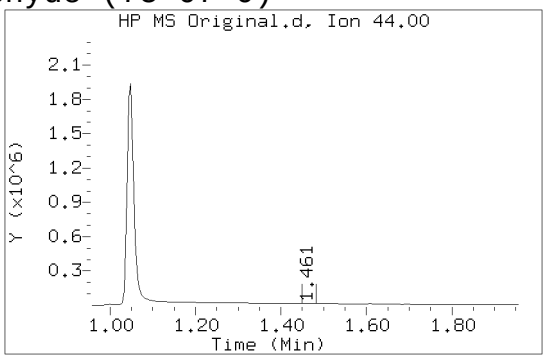
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LabSampID : VSTD001

Acetaldehyde (75-07-0)

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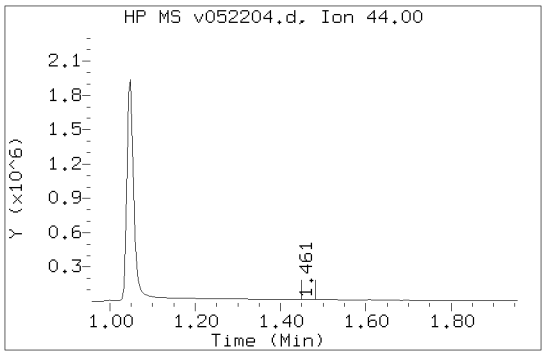
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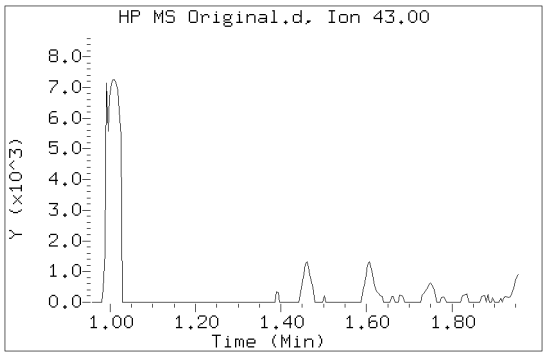
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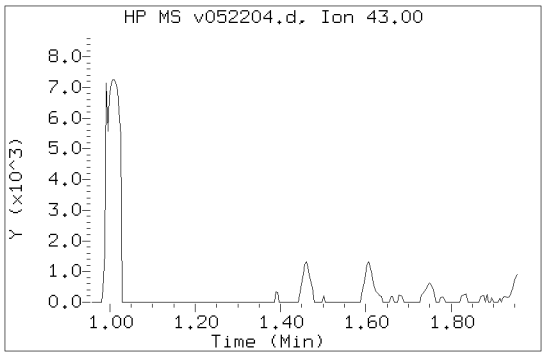
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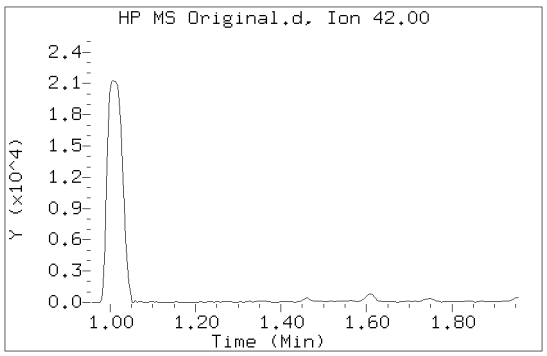
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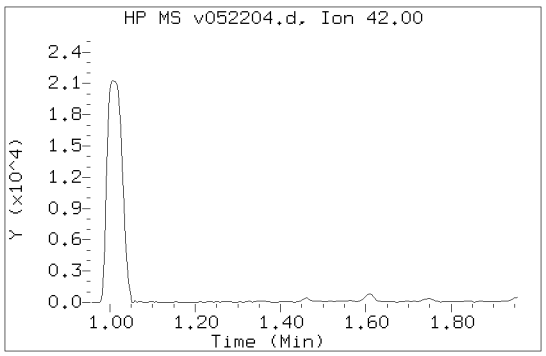
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AFTER

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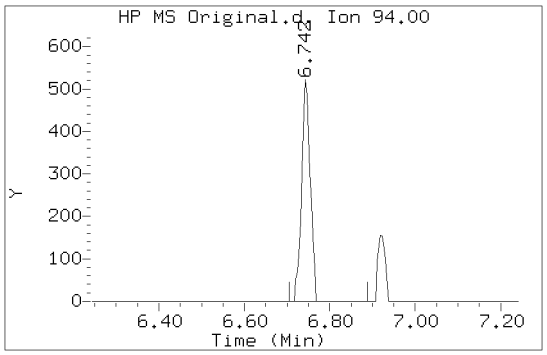


Dimethyl Disulfide (624-92-0)

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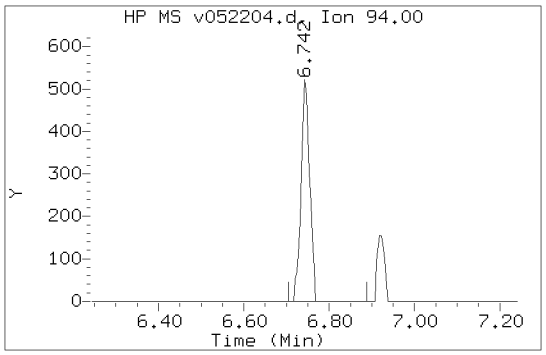
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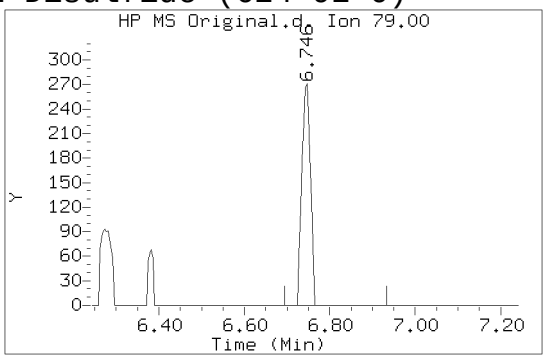
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LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

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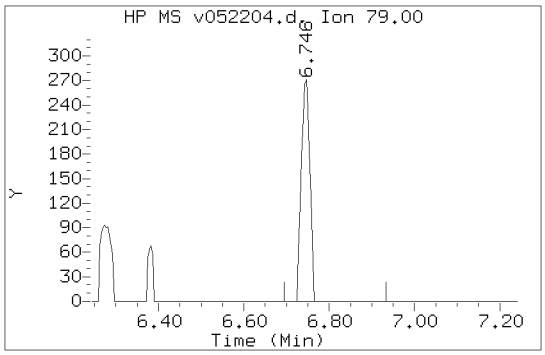
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tastan



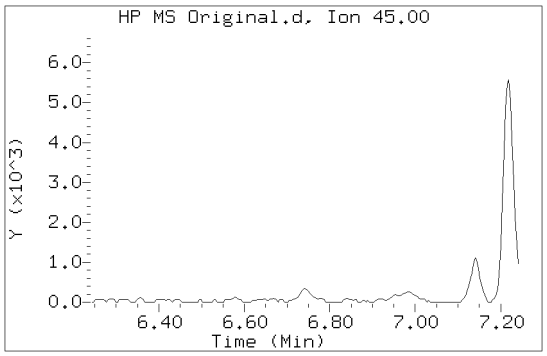
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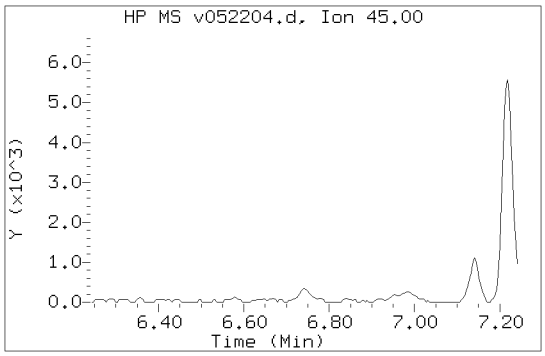
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AFTER

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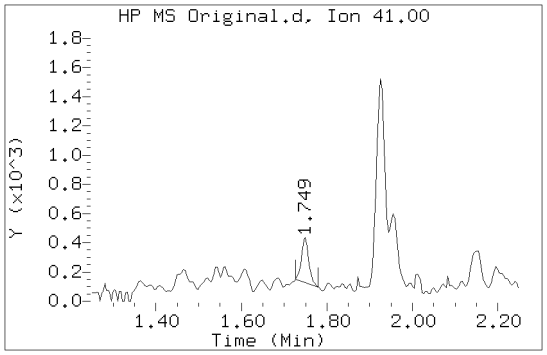


Isobutylene (115-11-7)

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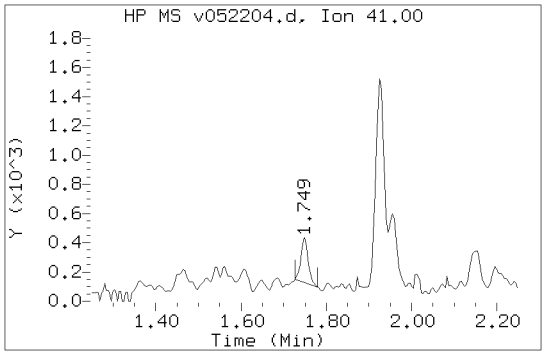
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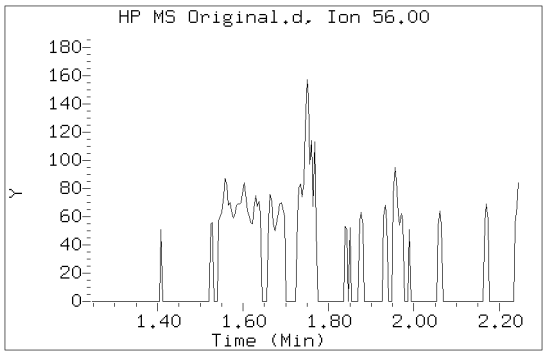
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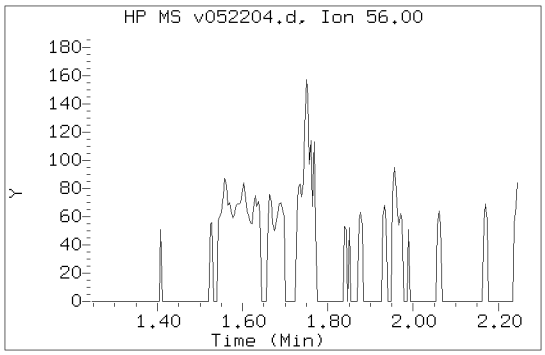
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AFTER

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HEIGHT
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23-May-2024
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tastan



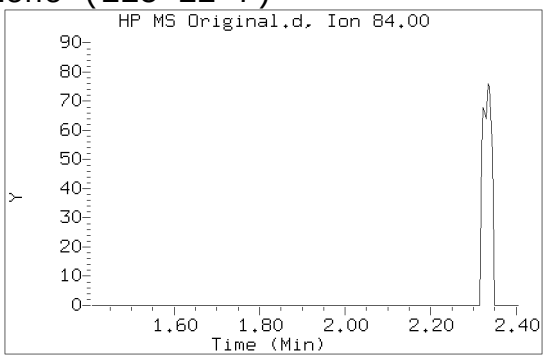
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Inj Date : 22-MAY-2024 21:05
InstruID : VOA9.i
LabSampID : VSTD001

Isobutylene (115-11-7)

Reason Code:

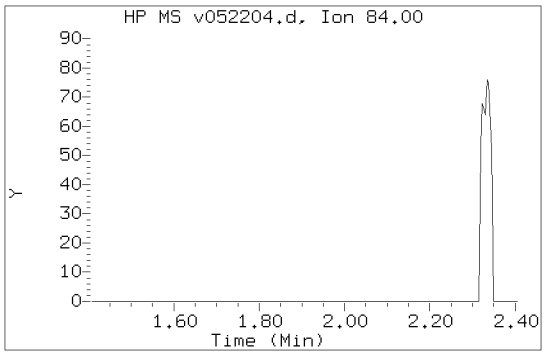
BEFORE

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AREA
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HEIGHT
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23-May-2024
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AFTER

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23-May-2024
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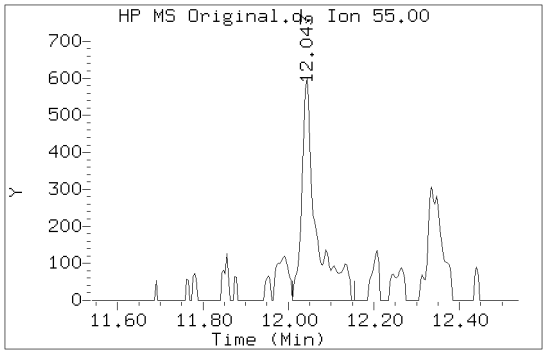


2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

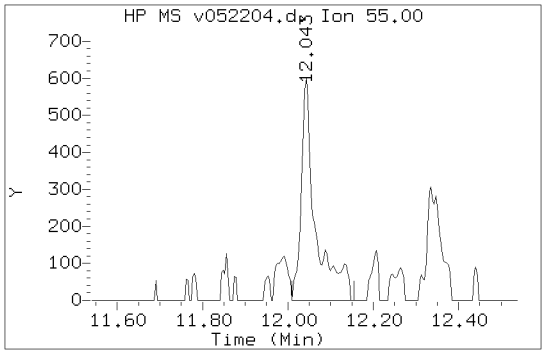
BEFORE

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599
23-May-2024
09:51
firat
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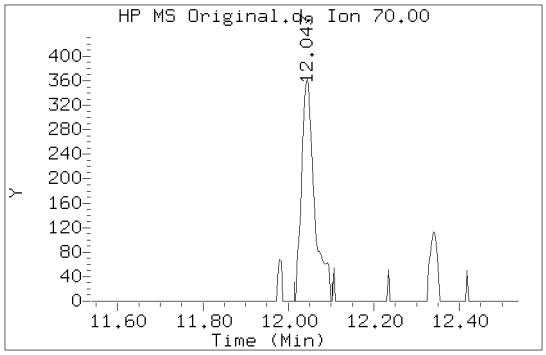
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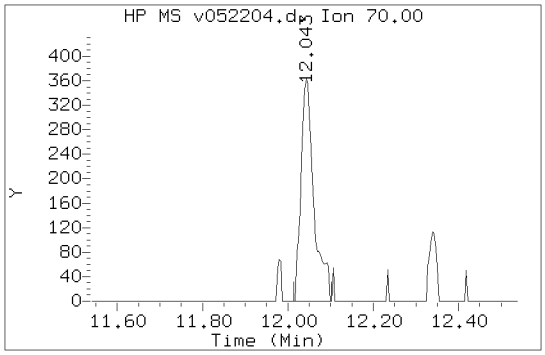
BEFORE

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HEIGHT
363
23-May-2024
09:51
firat
tastan



AFTER

MASS
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781
HEIGHT
363
23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052205.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052205.D
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Inj Date : 22-MAY-2024 21:27
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 21:05 Cal File: V052204.D
Als bottle: 32 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	239076	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	2799	2.00000	2.19(M)
3	Chloromethane	50	1.299	1.299	(0.270)	18240	2.00000	2.45
4	Propionitrile	54	4.343	4.343	(0.902)	8325	20.0000	27.55(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	4927	2.00000	2.27
6	Bromomethane	94	1.621	1.621	(0.337)	3105	2.00000	2.62
7	Chloroethane	64	1.704	1.704	(0.354)	3661	2.00000	2.44
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	5428	2.00000	2.19
9	Acrolein	56	2.270	2.270	(0.471)	725	4.00000	5.82(aM)
10	Acetone	43	2.409	2.409	(0.500)	4226	4.00000	4.89
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	3639	2.00000	2.41
12	Isobutyl Alcohol	43	5.288	5.288	(1.098)	14294	40.0000	49.54(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	4770	20.0000	24.15(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	12724	2.00000	2.50(a)
15	Iodomethane	142	2.469	2.469	(0.513)	1618	4.00000	3.60(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	4082	4.00000	5.39
17	Methylene Chloride	84	2.795	2.795	(0.580)	7451	2.00000	2.51
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	12924	2.00000	2.69
19	Carbon Disulfide	76	2.521	2.521	(0.524)	20828	4.00000	4.57
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	4221	2.00000	2.44

21 Vinyl Acetate	43	4.343	4.343 (0.902)	5865	4.00000	4.96(M)
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	8759	2.00000	2.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	6360	2.00000	2.41(aM)
	24 2-Butanone	43	4.272	4.272	(0.887)	5940	4.00000	5.33
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	3544	2.00000	2.81(aM)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	4983	2.00000	2.36
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	5181	2.00000	2.50
	28 Chloroform	83	4.575	4.575	(0.950)	8888	2.00000	2.58
	29 Bromochloromethane	128	4.470	4.470	(0.928)	2688	2.00000	2.63
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	4978	2.00000	2.86
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	5333	2.00000	2.21
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	5942	2.00000	2.37
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	7453	2.00000	2.68
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	4159	2.00000	2.04
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	6849	2.00000	3.14
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	354246	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	20260	2.00000	2.50
	38 Trichloroethene	130	5.786	5.786	(1.043)	4638	2.00000	2.36(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	5068	2.00000	2.34(aM)
	40 Methyl Methacrylate	41	5.831	5.831	(1.211)	2174	2.00000	2.90(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	2608	4.00000	3.78
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	5897	2.00000	2.62(a)
	43 2-Nitropropane	43	6.506	6.506	(1.351)	954	2.00000	2.32(aM)
	44 Dibromomethane	93	6.120	6.120	(1.103)	3121	2.00000	2.55(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.838)	10418	4.00000	4.75(a)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	5352	2.00000	2.15(a)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	317294	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	17737	2.00000	2.75(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	6218	2.00000	2.37(aM)
	50 Toluene	91	6.978	6.978	(0.853)	19857	2.00000	2.47(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	3854	2.00000	1.98(a)
	52 2-Hexanone	43	7.593	7.593	(0.928)	6749	4.00000	4.60(a)
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	4383	2.00000	2.76(a)
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	8637	2.00000	2.59(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	3234	2.00000	2.07(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	3632	2.00000	2.40(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	4379	2.00000	2.58(a)
	58 1-Chlorohexane	55	8.189	8.189	(1.475)	6784	2.00000	2.39(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	13797	2.00000	2.52(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	3979	2.00000	2.40(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	6101	2.00000	2.37(a)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	15303	4.00000	4.84(a)
	63 o-Xylene	106	8.744	8.744	(1.069)	7250	2.00000	2.34(a)
	64 Styrene	104	8.763	8.763	(1.071)	11838	2.00000	2.25(a)
	66 Bromoform	173	8.916	8.916	(1.090)	1952	2.00000	2.01(Ta)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	17414	2.00000	2.27(a)
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	6823	2.00000	2.63(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.124)	7375	2.00000	2.99(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	168721	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	5886	2.00000	2.27(a)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1369	2.00000	2.41(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	19974	2.00000	2.29(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	5788	2.00000	2.60(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	13231	2.00000	2.20(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	14272	2.00000	2.52(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	16356	2.00000	2.54(a)

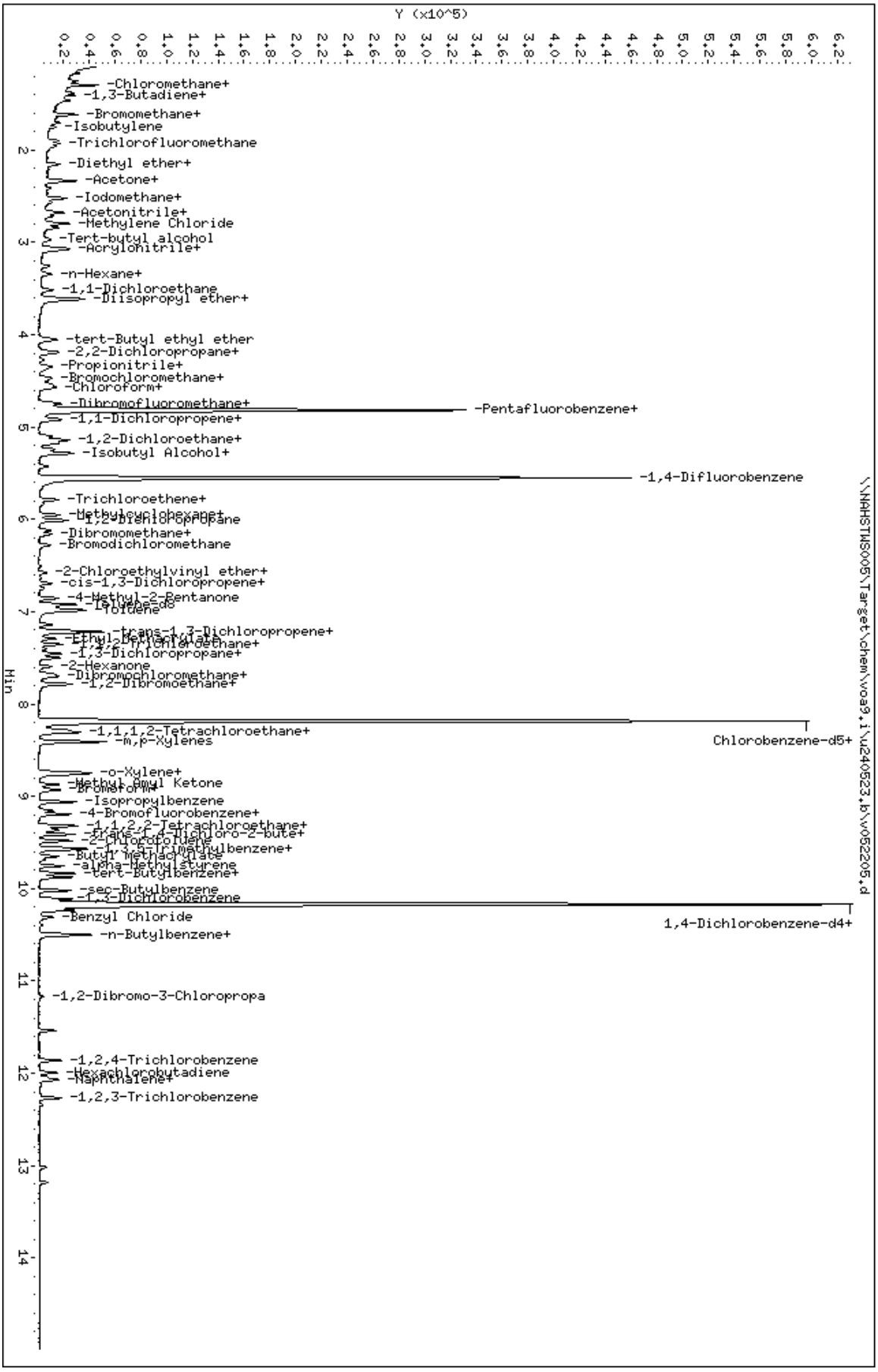
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	11953	2.00000	2.26(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	13720	2.00000	2.22(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	15557	2.00000	2.21(a)
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	13299	2.00000	2.17(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	10178	2.00000	2.55(aM)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	11601	2.00000	2.60(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	7550	2.00000	2.17(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	12812	2.00000	2.16(a)
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	10650	2.00000	2.63(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	632	2.00000	2.21(a)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	5761	2.00000	2.27(a)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	2569	2.00000	2.30(a)
92	Naphthalene	128	12.069	12.069	(1.187)	11869	2.00000	2.20(a)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	5635	2.00000	2.38(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	6584	2.00000	2.76(a)
138	Freon TF	101	2.334	2.334	(0.485)	5517	2.00000	2.14(a)
141	Cyclohexane	56	4.785	4.785	(0.994)	9869	2.00000	2.27(aM)
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	2093	4.00000	4.62(a)
147	Methylcyclohexane	55	5.947	5.947	(1.072)	9046	2.00000	2.12(a)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	1210	40.0000	44.69
132	n-Butanol	56	5.839	5.839	(1.213)	1923	40.0000	42.70(a)
136	n-Hexane	57	3.342	3.342	(0.694)	3911	2.00000	2.09(a)
139	Diethyl ether	59	2.146	2.146	(0.446)	3327	2.00000	2.51(a)
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	7842	40.0000	55.15
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	6005	40.0000	52.39(T)
152	Amyl alcohol	42	7.402	7.402	(0.905)	2287	40.0000	41.09
156	Diisopropyl ether	45	3.619	3.619	(0.752)	16134	2.00000	2.57(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	7948	2.00000	2.36(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	9669	2.00000	2.69(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	19537	2.00000	2.23(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	12904	2.00000	2.25(a)
167	Ethanol	45	2.086	2.086	(0.433)	1328	40.0000	56.77
172	tert-Butyl formate	59	5.239	5.239	(1.088)	6942	4.00000	5.04(M)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	9713	40.0000	46.31(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	12431	2.00000	2.35(a)
175	tert-Butyl ethyl ether	59	4.050	4.050	(0.841)	12975	2.00000	2.44(a)
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	6942	40.0000	50.66
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	23380	40.0000	44.13
140	1,3-Butadiene	54	1.404	1.404	(0.292)	2110	2.00000	2.23(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	1366	8.00000	10.59(M)
M 94	1,2-Dichloroethylene (total)	96				9402	4.00000	(a)
130	Ethyl Acetate	43	4.343	4.343	(0.902)	6005	2.00000	2.57(Ta)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	6155	2.00000	2.68(a)
189	n-Butyl acetate	43	7.705	7.705	(0.942)	7821	2.00000	2.39(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	4862	40.0000	49.84(a)
185	Isoprene	39	2.154	2.154	(0.447)	854	2.00000	2.10(a)
188	Isopropyl acetate	43	5.288	5.288	(0.953)	14294	2.00000	2.40(a)
150	Allyl alcohol	57	3.342	3.342	(0.694)	3911	40.0000	41.83
194	Acetaldehyde	44	1.464	1.464	(0.304)	3129	8.00000	9.70(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.084)	9513	2.00000	2.39(a)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	1761	2.00000	1.75(a)
202	Isobutylene	41	1.753	1.753	(0.364)	1170	2.00000	2.14(aM)

133 Ethyl Acrylate	55	5.947	5.947 (1.235)	9098	2.00000	2.15(aM)
163 Butyl methacrylate	41	9.647	9.647 (0.949)	4741	2.00000	2.06(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.202	2.202	(0.457)	836	4.00000	4.62(a)
203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	3034	2.00000	1.85(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Y (x10^5)
Min
-Chloromethane+
-1,3-Butadiene+
-Bromomethane+
-Isobutylene
-Trichlorofluoromethane
-Diethyl ether+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Diisopropyl ether+
-tert-Butyl ethyl ether
-2,2-Dichloropropane+
-Propionitrile+
-Bromochloromethane+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane+
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Methyl Amyl Ketone
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,2,4-Trimethylbenzene+
-Butyl Methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
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Sample Info: VSTD002*VSTD002*1*1*4
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9,i
Operator: FT
Column diameter: 0.18
Page 1

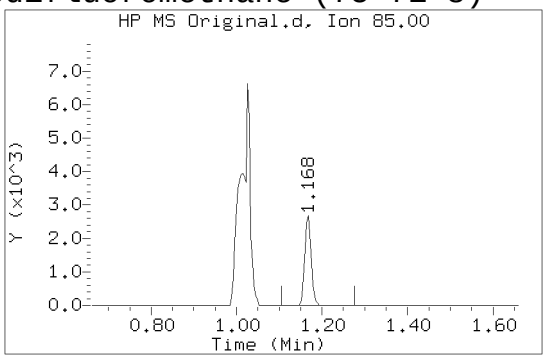
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LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

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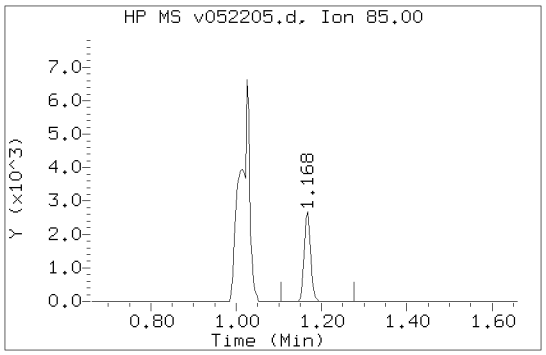
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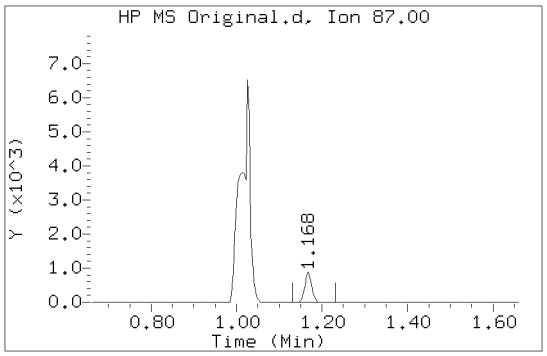
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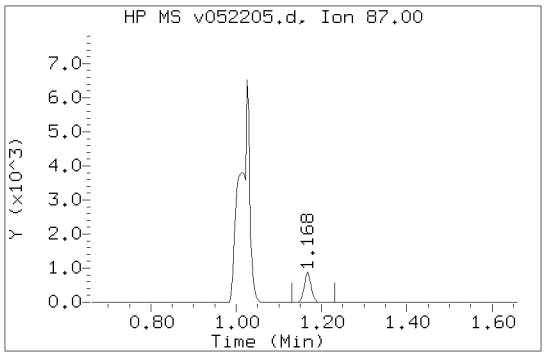
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AFTER

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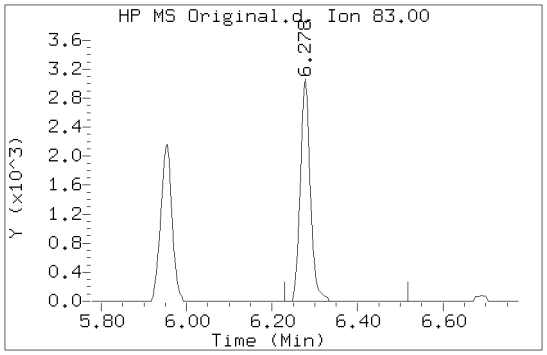


Bromodichloromethane (75-27-4)

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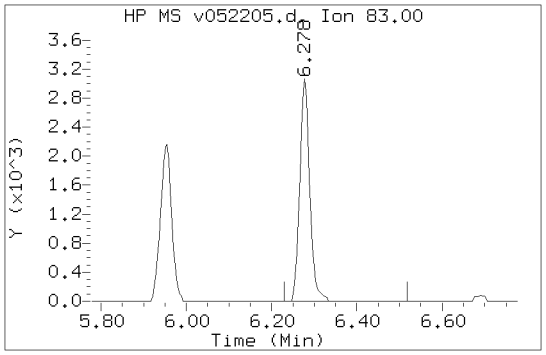
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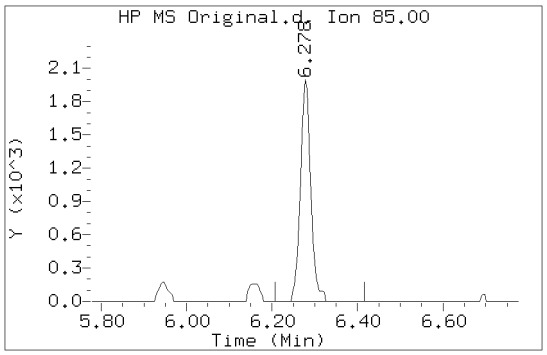
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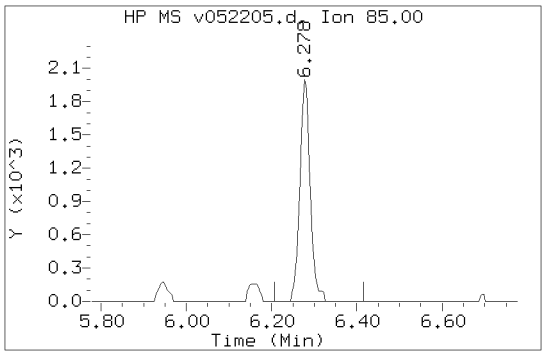
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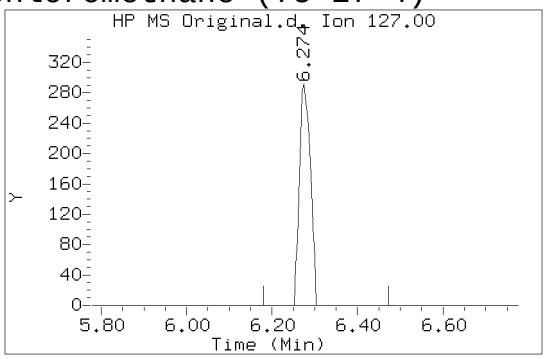
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InstruID : VOA9.i
LabSampID : VSTD002

Bromodichloromethane (75-27-4)

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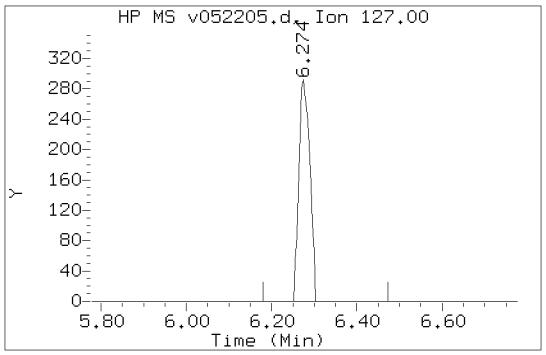
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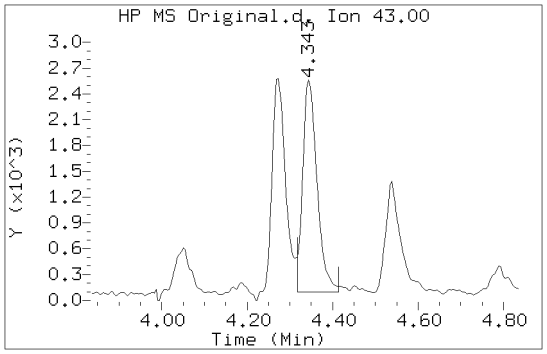


Vinyl Acetate (108-05-4)

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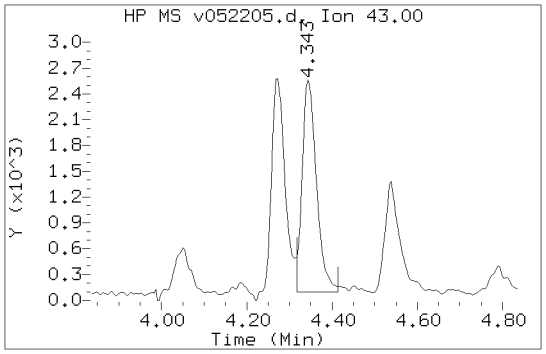
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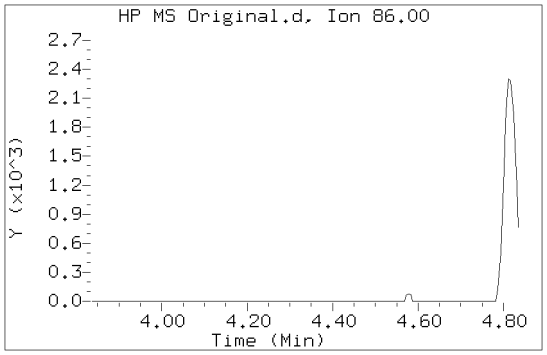
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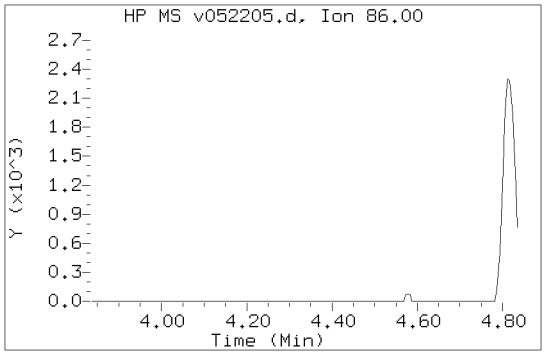
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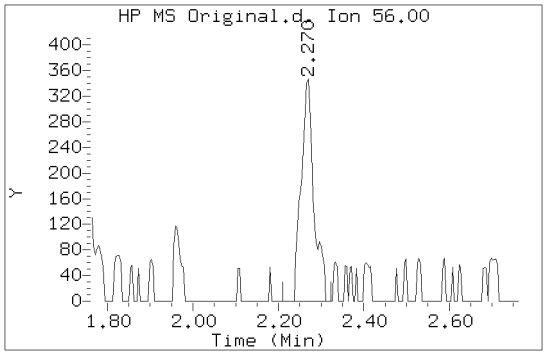


Acrolein (107-02-8)

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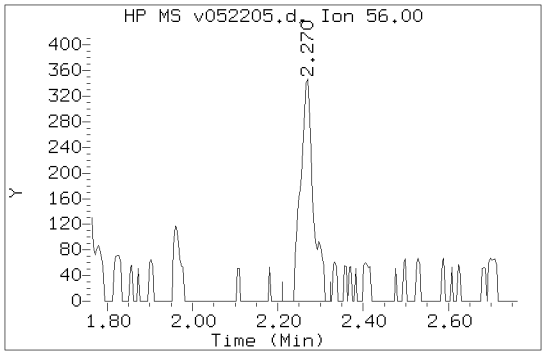
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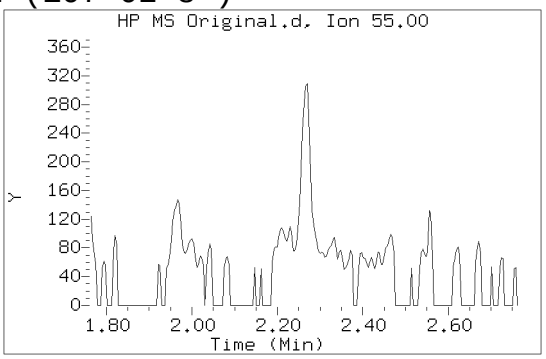
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InstruID : VOA9.i
LabSampID : VSTD002

Acrolein (107-02-8)

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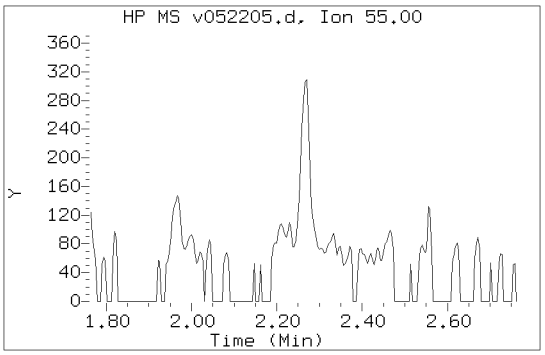
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AFTER

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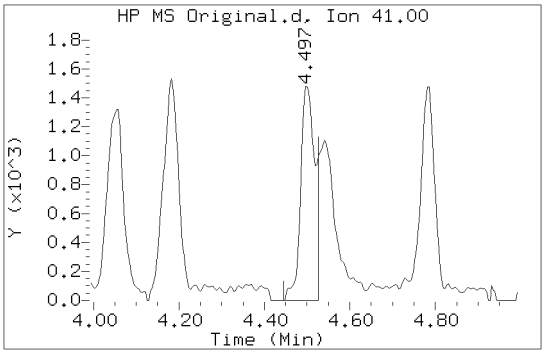


Methacrylonitrile (126-98-7)

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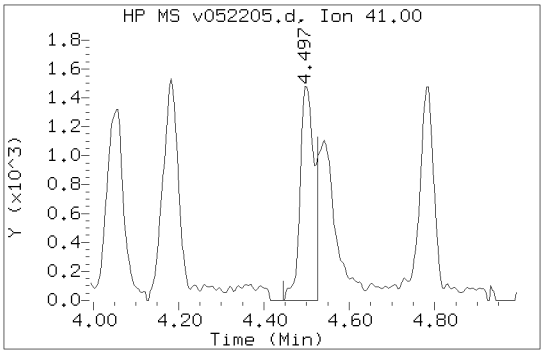
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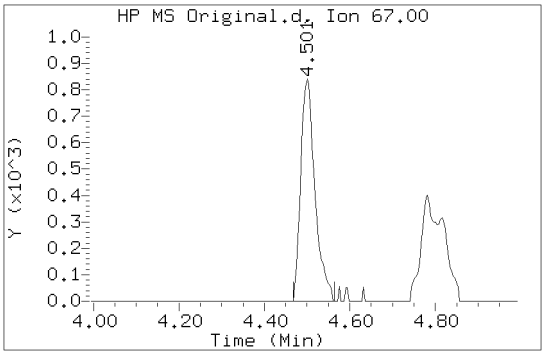
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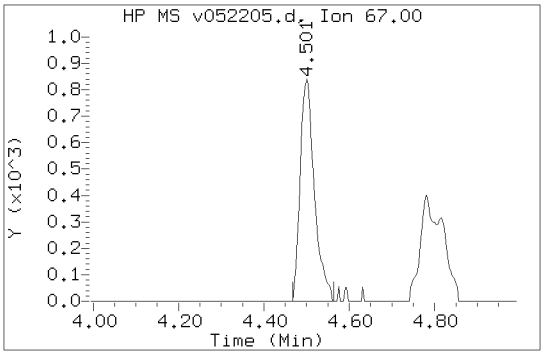
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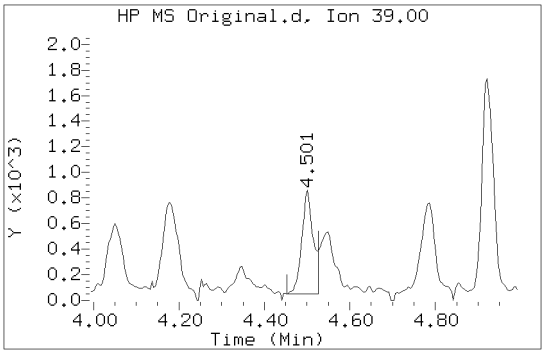
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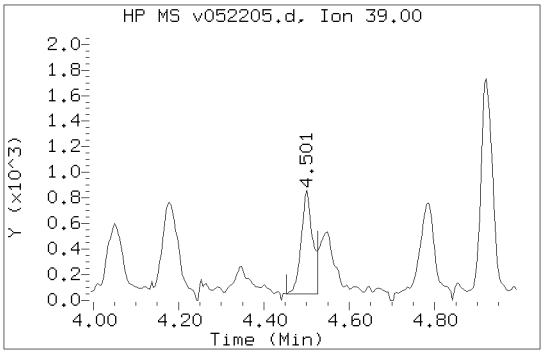
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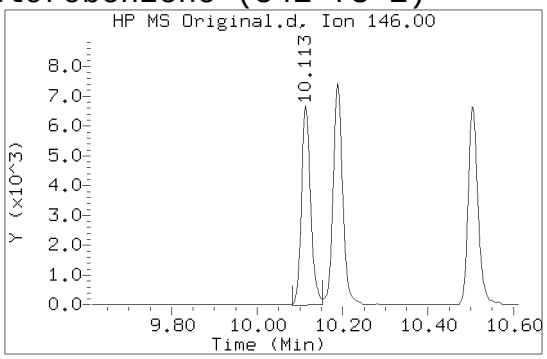
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InstruID : VOA9.i
LabSampID : VSTD002

1,3-Dichlorobenzene (541-73-1)

Reason Code:

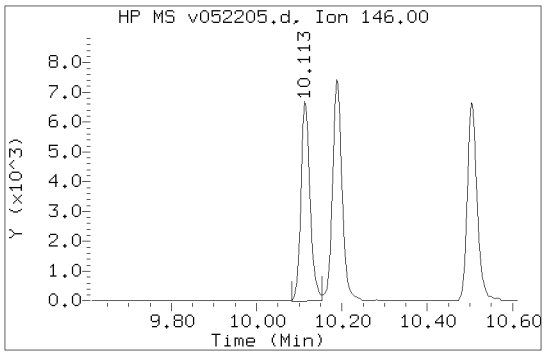
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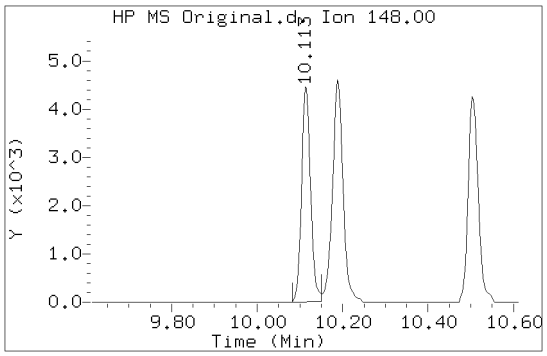
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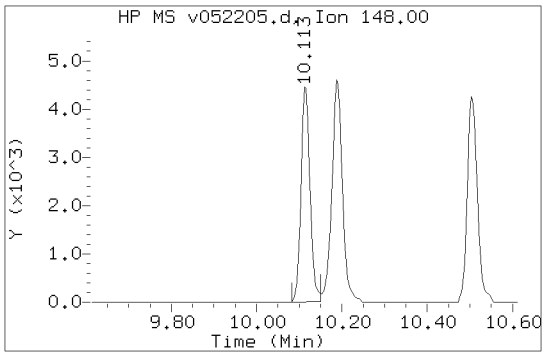
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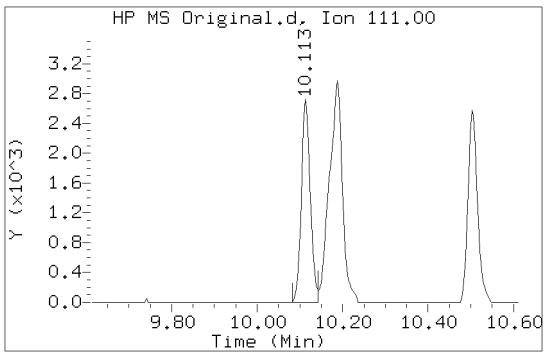
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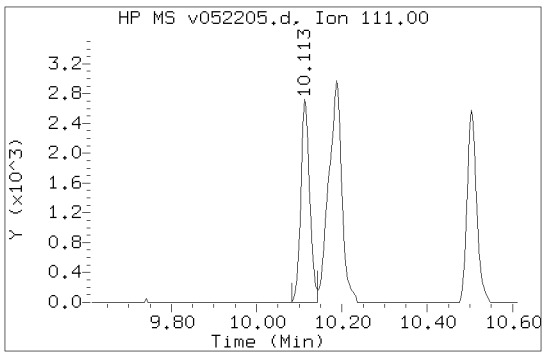
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AFTER

MASS
111
AREA
4008
HEIGHT
2720
23-May-2024
09:51
firat
tastan

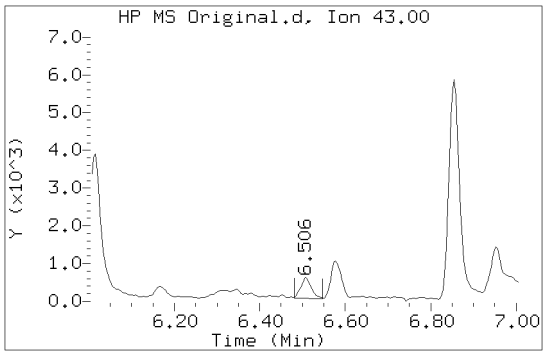


2-Nitropropane (79-46-9)

Reason Code:

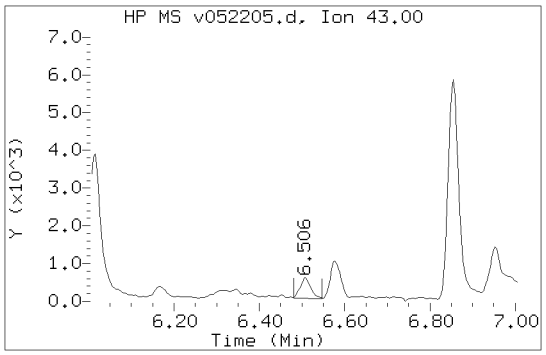
BEFORE

MASS
43
AREA
954
HEIGHT
546
23-May-2024
09:51
firat
tastan



AFTER

MASS
43
AREA
954
HEIGHT
546
23-May-2024
09:51
firat
tastan



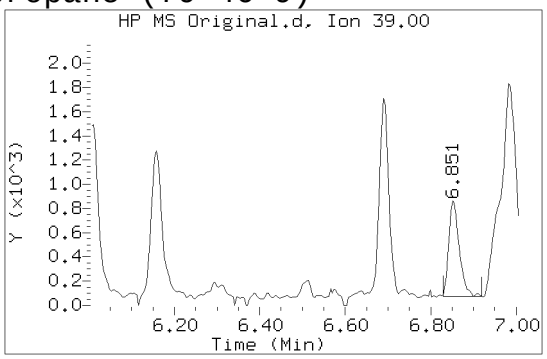
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

2-Nitropropane (79-46-9)

Reason Code:

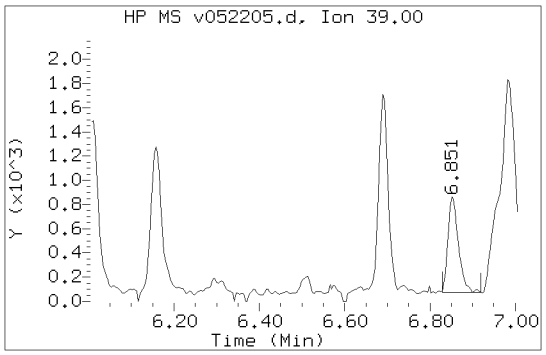
BEFORE

MASS
39
AREA
1361
HEIGHT
789
23-May-2024
09:51
firat
tastan



AFTER

MASS
39
AREA
1361
HEIGHT
789
23-May-2024
09:51
firat
tastan

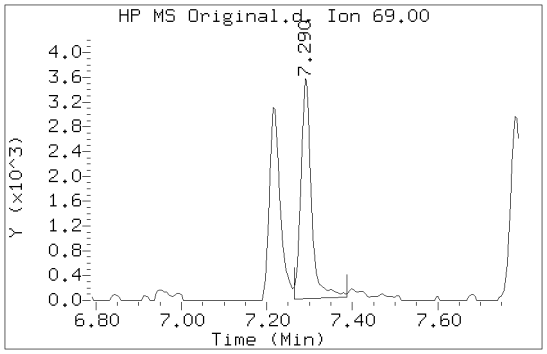


Ethyl Methacrylate (97-63-2)

Reason Code:

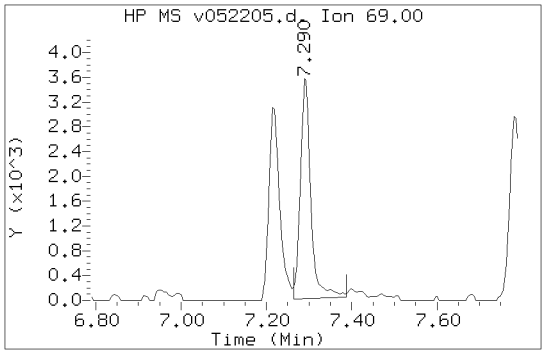
BEFORE

MASS
69
AREA
6218
HEIGHT
3553
23-May-2024
09:51
firat
tastan



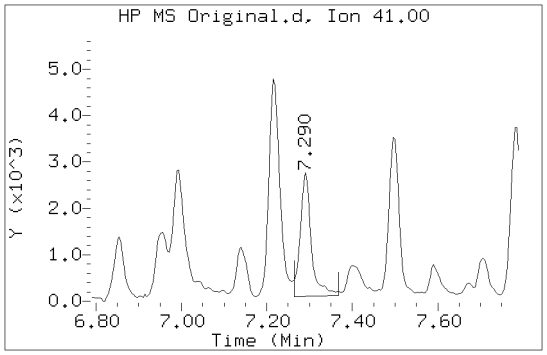
AFTER

MASS
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AREA
6218
HEIGHT
3553
23-May-2024
09:51
firat
tastan



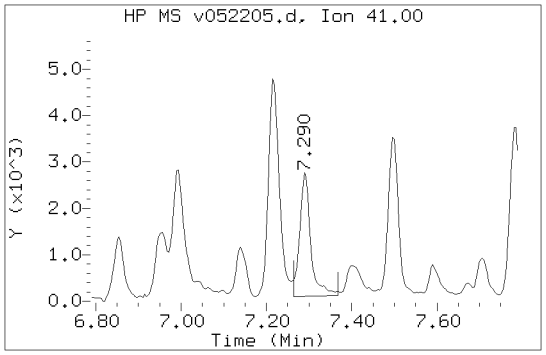
BEFORE

MASS
41
AREA
4964
HEIGHT
2670
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
4964
HEIGHT
2670
23-May-2024
09:51
firat
tastan

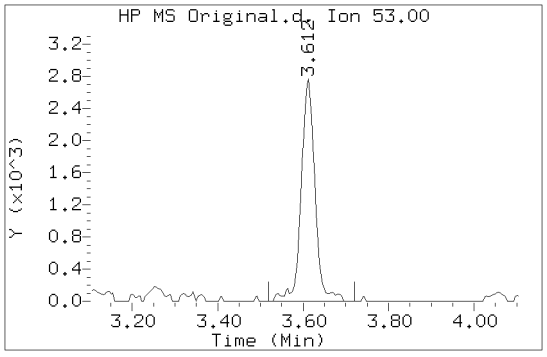


Chloroprene (126-99-8)

Reason Code:

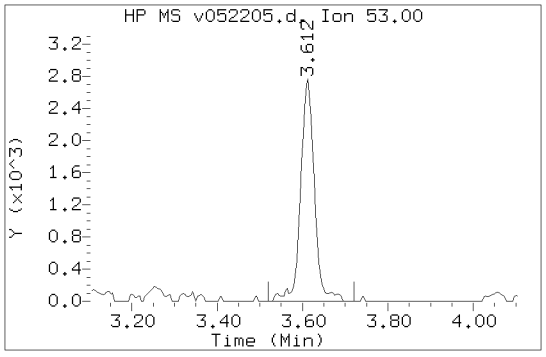
BEFORE

MASS
53
AREA
6360
HEIGHT
2769
23-May-2024
09:51
firat
tastan



AFTER

MASS
53
AREA
6360
HEIGHT
2769
23-May-2024
09:51
firat
tastan



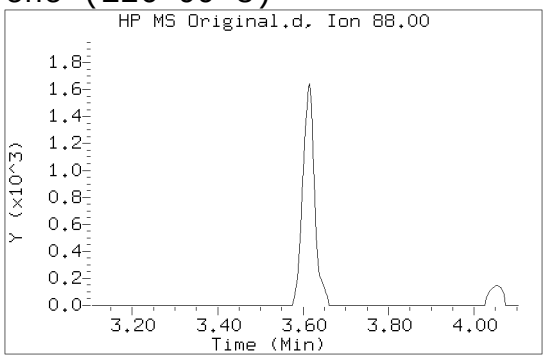
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Chloroprene (126-99-8)

Reason Code:

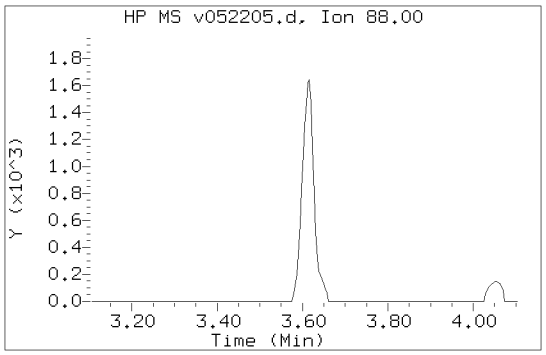
BEFORE

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

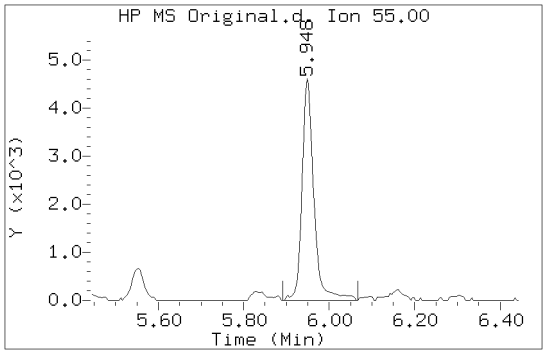


Ethyl Acrylate (140-88-5)

Reason Code:

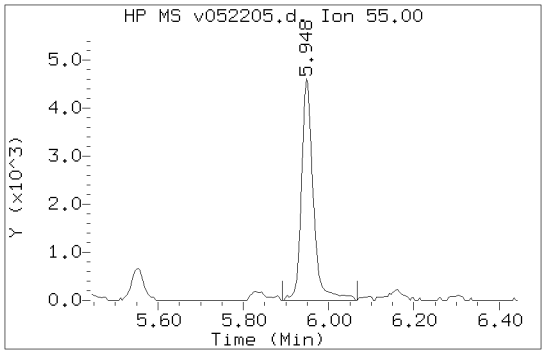
BEFORE

MASS
55
AREA
9098
HEIGHT
4617
23-May-2024
09:51
firat
tastan



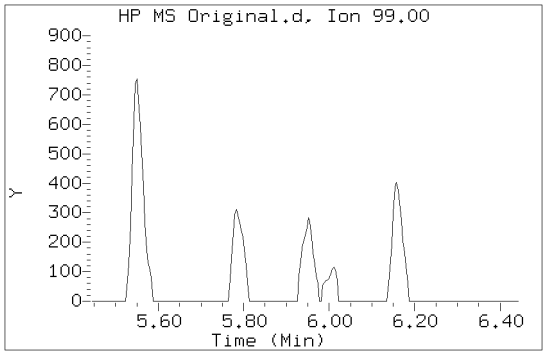
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AREA
9098
HEIGHT
4617
23-May-2024
09:51
firat
tastan



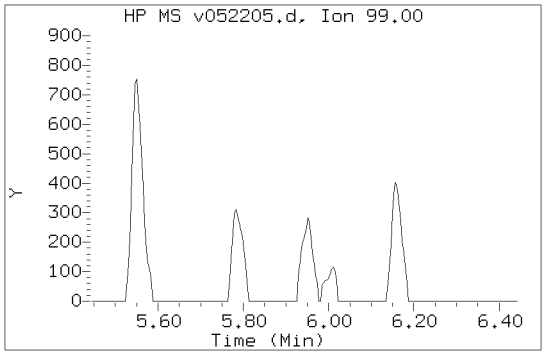
BEFORE

MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan

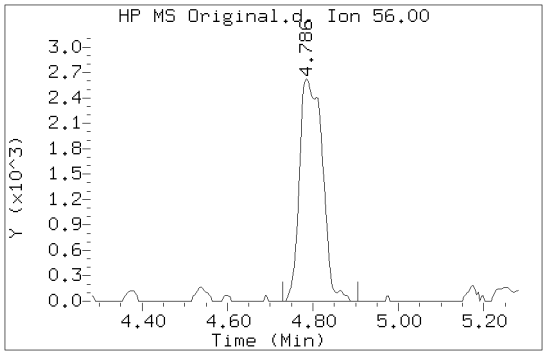


Cyclohexane (110-82-7)

Reason Code:

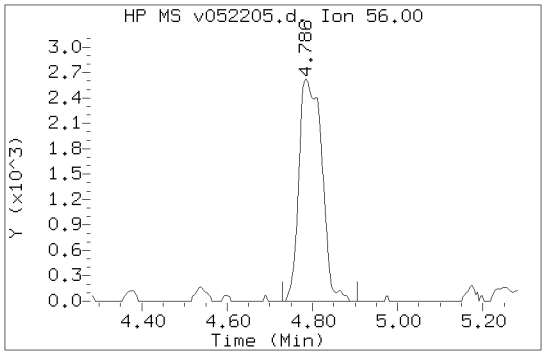
BEFORE

MASS
56
AREA
9869
HEIGHT
2624
23-May-2024
09:51
firat
tastan



AFTER

MASS
56
AREA
9869
HEIGHT
2624
23-May-2024
09:51
firat
tastan



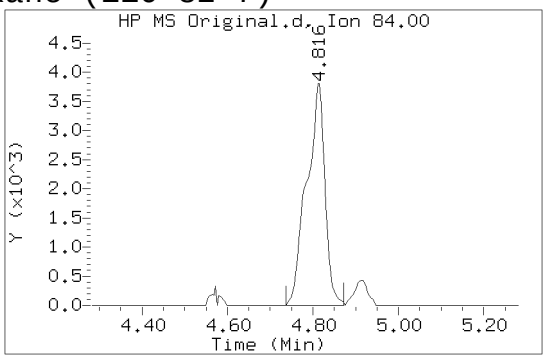
Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052205.d
Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

Cyclohexane (110-82-7)

Reason Code:

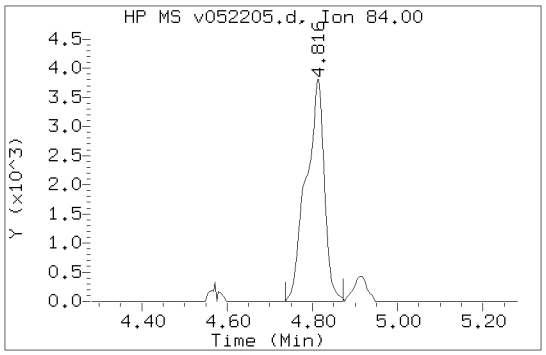
BEFORE

MASS
84
AREA
11391
HEIGHT
3803
23-May-2024
09:51
firat
tastan



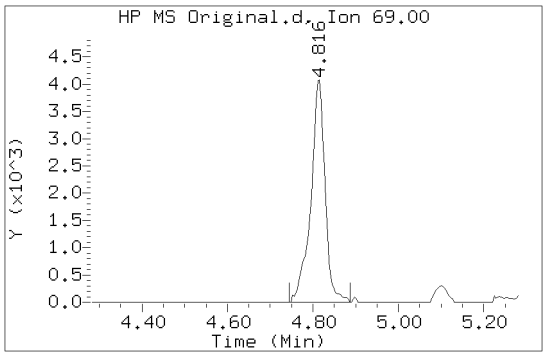
AFTER

MASS
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3803
23-May-2024
09:51
firat
tastan



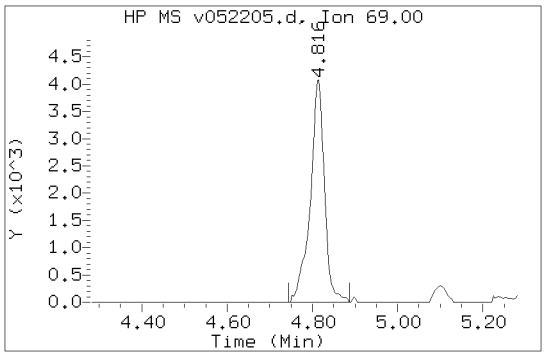
BEFORE

MASS
69
AREA
9488
HEIGHT
4077
23-May-2024
09:51
firat
tastan



AFTER

MASS
69
AREA
9488
HEIGHT
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23-May-2024
09:51
firat
tastan

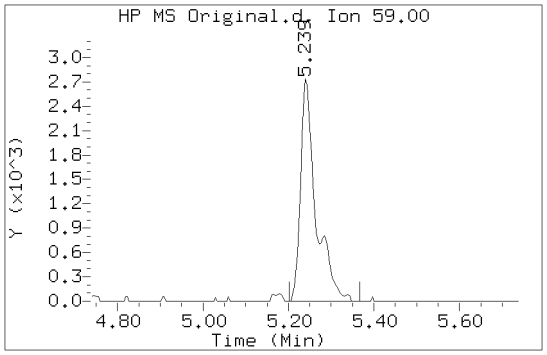


tert-Butyl formate (762-75-4)

Reason Code:

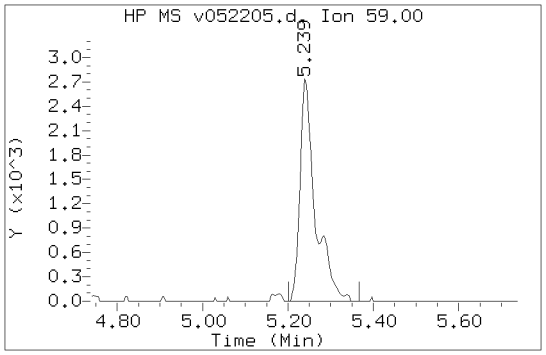
BEFORE

MASS
59
AREA
6942
HEIGHT
2737
23-May-2024
09:51
firat
tastan



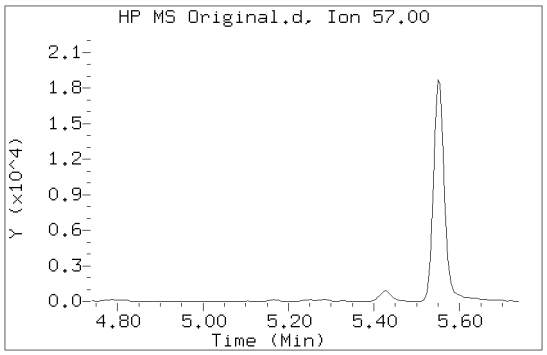
AFTER

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59
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6942
HEIGHT
2737
23-May-2024
09:51
firat
tastan



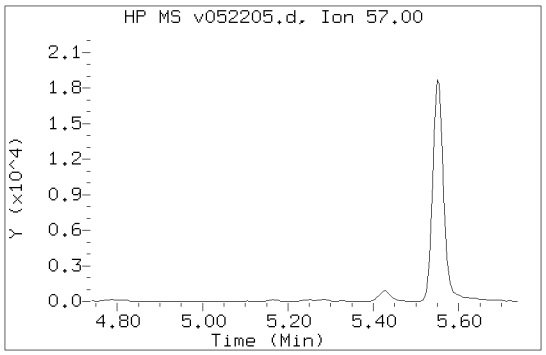
BEFORE

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AREA
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HEIGHT
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23-May-2024
09:51
firat
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AFTER

MASS
57
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



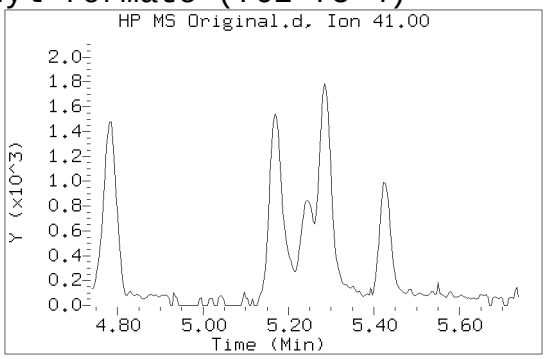
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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

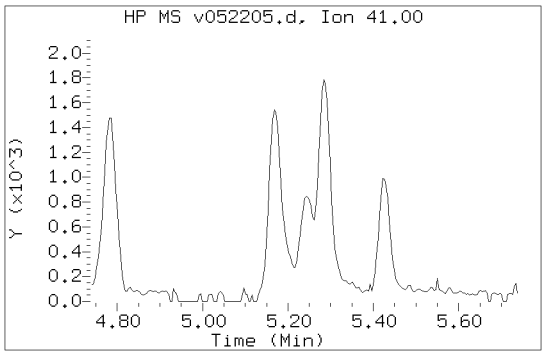
BEFORE

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

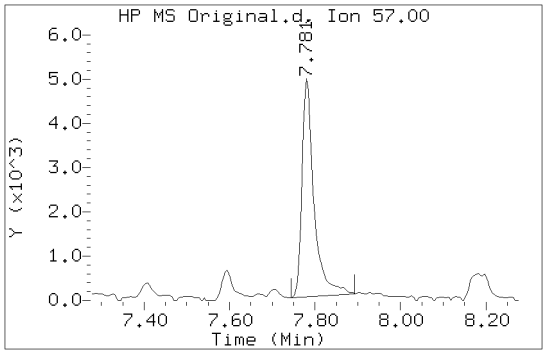


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

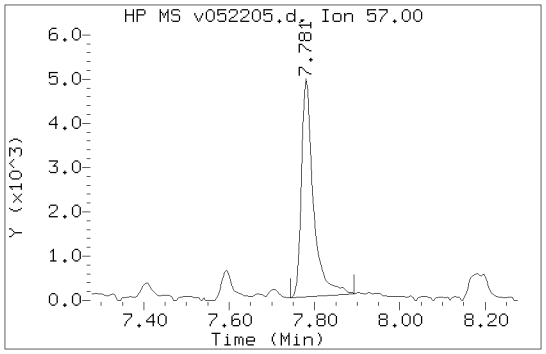
BEFORE

MASS
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AREA
9713
HEIGHT
4929
23-May-2024
09:51
firat
tastan



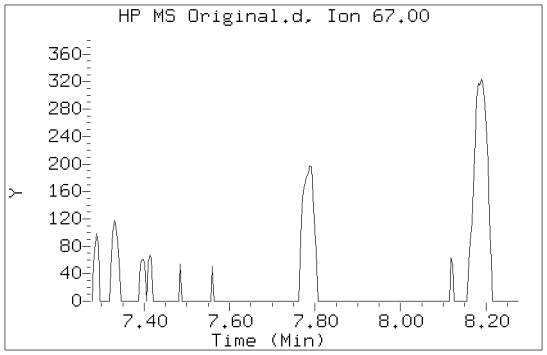
AFTER

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9713
HEIGHT
4929
23-May-2024
09:51
firat
tastan



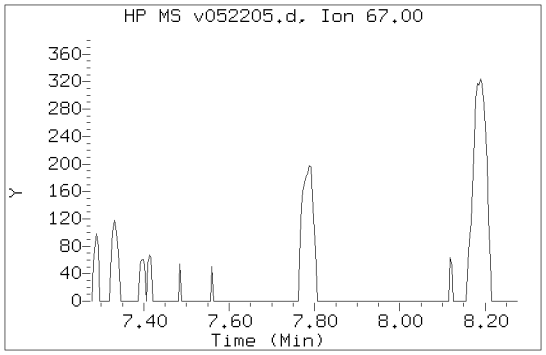
BEFORE

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67
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HEIGHT
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23-May-2024
09:51
firat
tastan



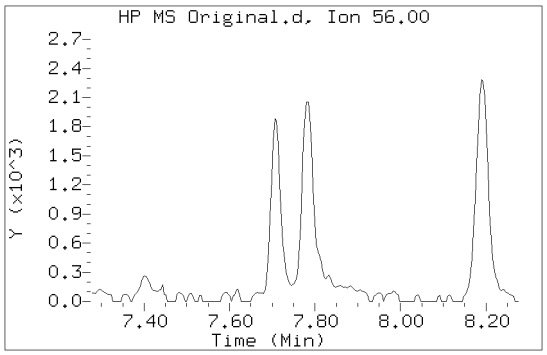
AFTER

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HEIGHT
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23-May-2024
09:51
firat
tastan



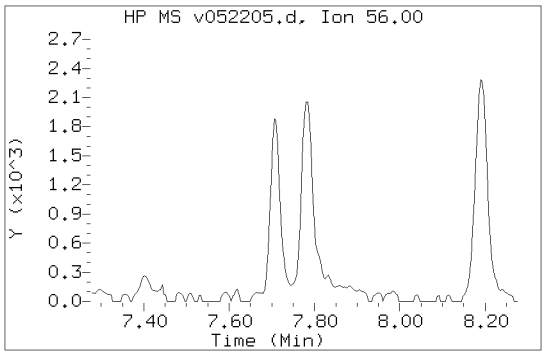
BEFORE

MASS
56
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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HEIGHT
0
23-May-2024
09:51
firat
tastan

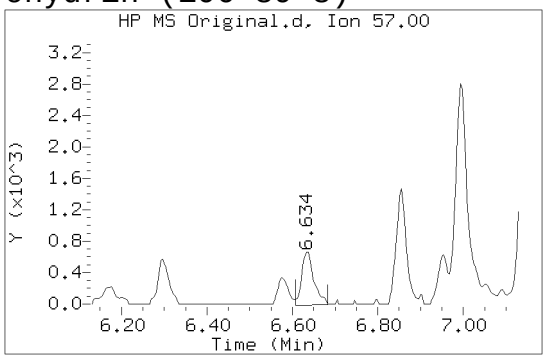


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Inj Date : 22-MAY-2024 21:27
InstruID : VOA9.i
LabSampID : VSTD002

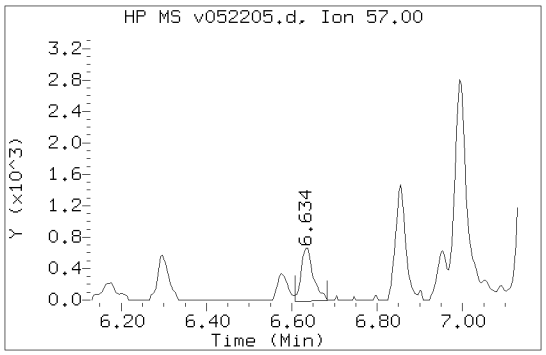
Epichlorohydrin (106-89-8)

Reason Code:

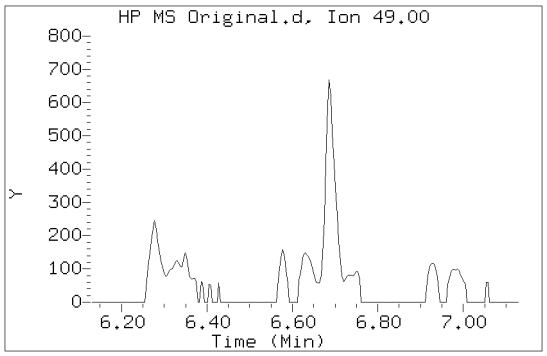
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AREA
1366
HEIGHT
677
23-May-2024
09:51
firat
tastan



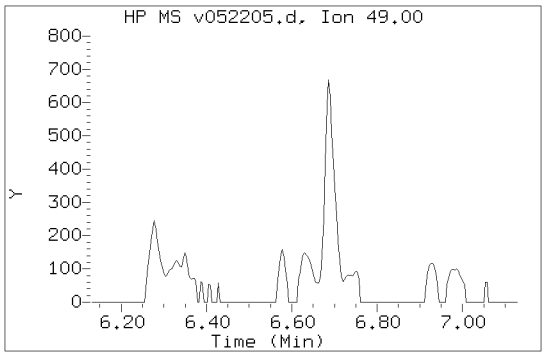
AFTER
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57
AREA
1366
HEIGHT
677
23-May-2024
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firat
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BEFORE
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



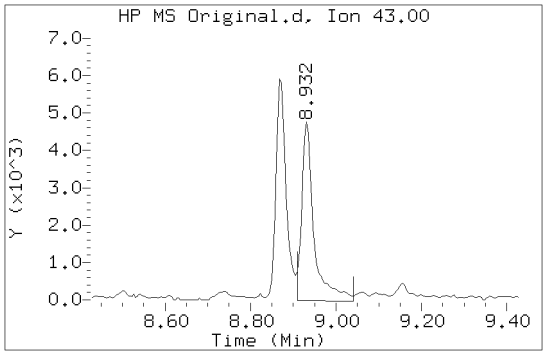
AFTER
MASS
49
AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



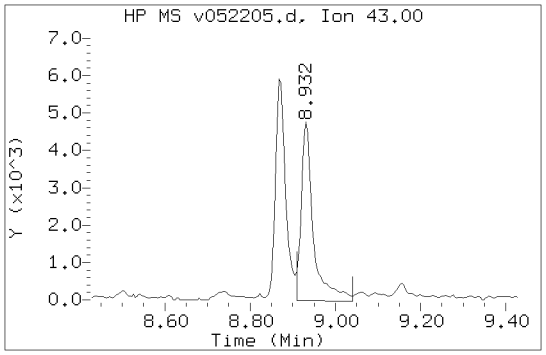
n-Amyl acetate (628-63-7)

Reason Code:

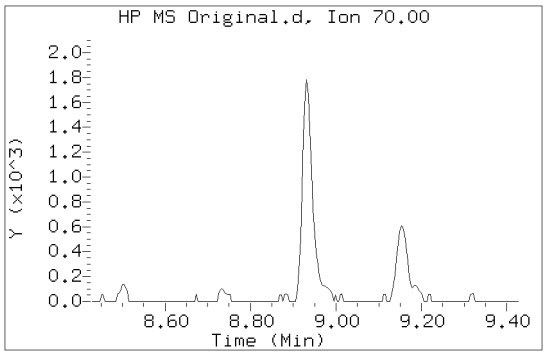
BEFORE
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9669
HEIGHT
4774
23-May-2024
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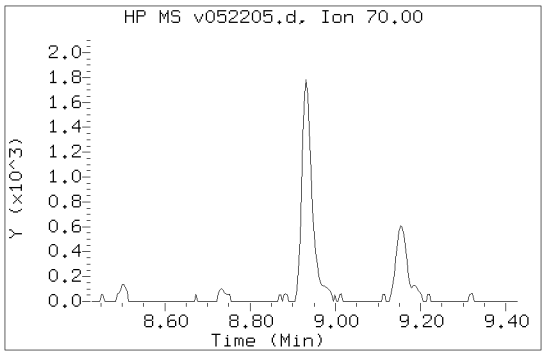
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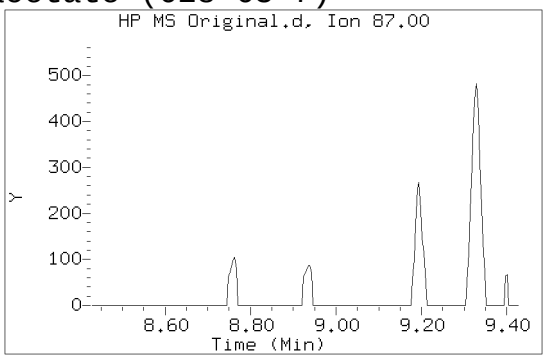
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InstruID : VOA9.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

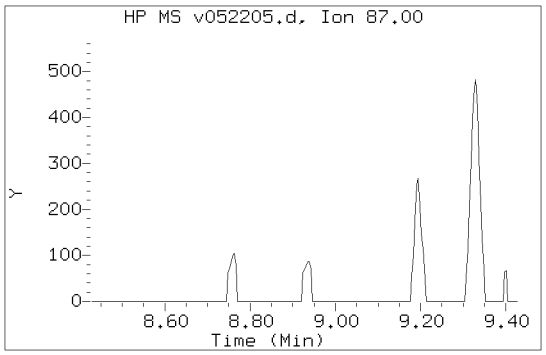
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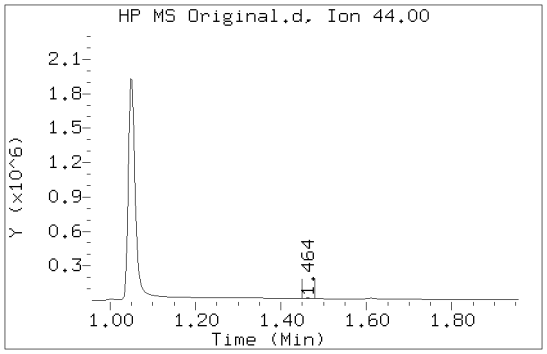


Acetaldehyde (75-07-0)

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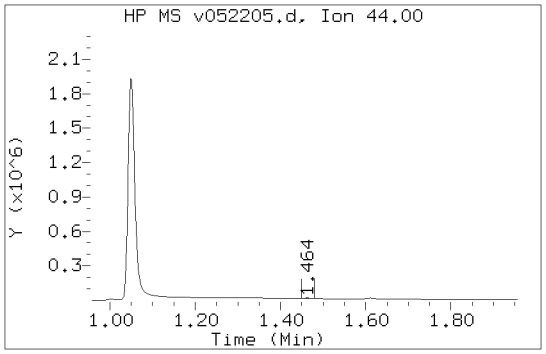
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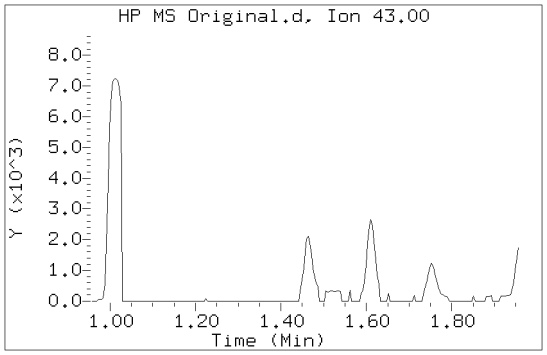
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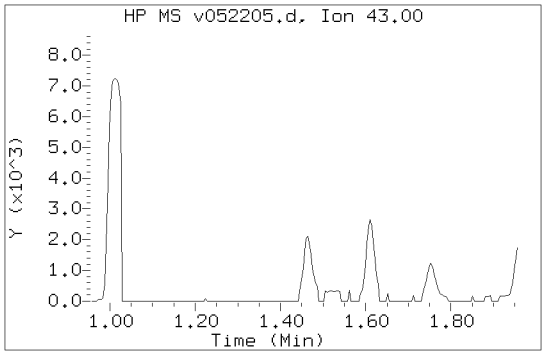
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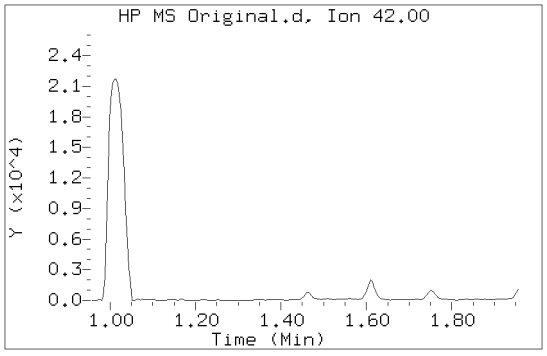
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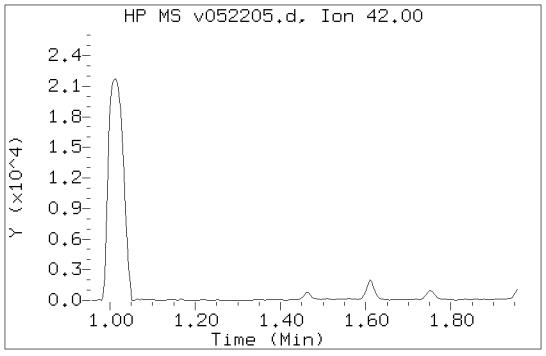
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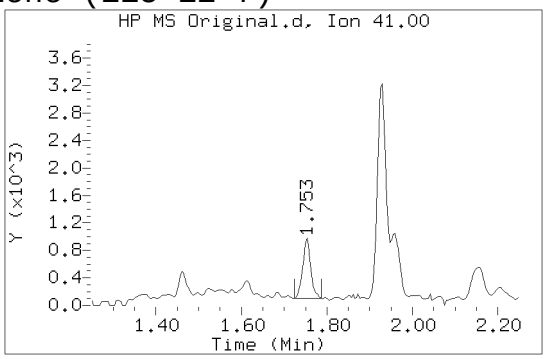


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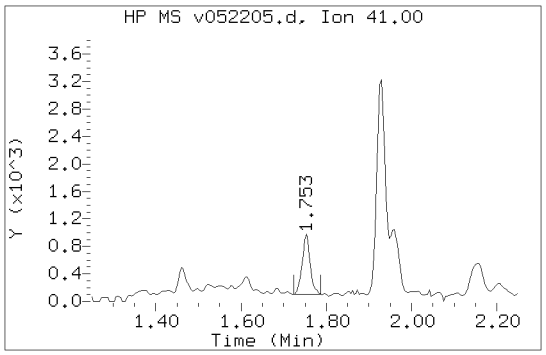
Isobutylene (115-11-7)

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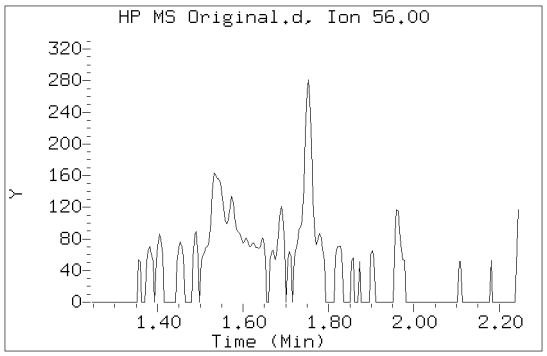
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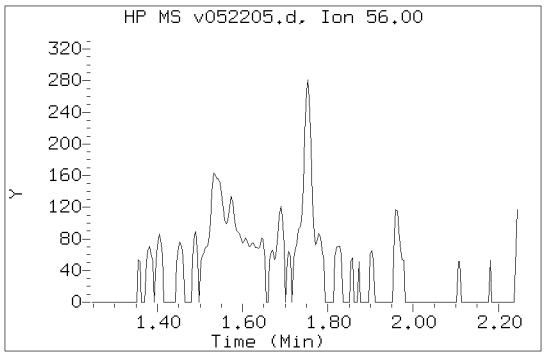
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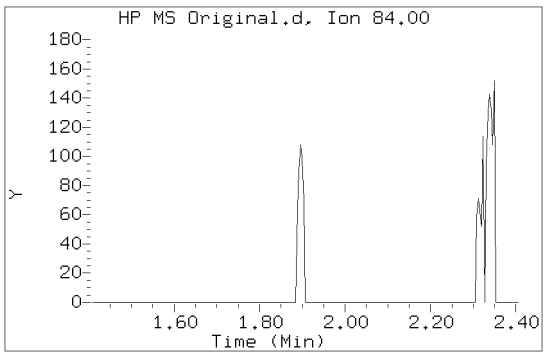
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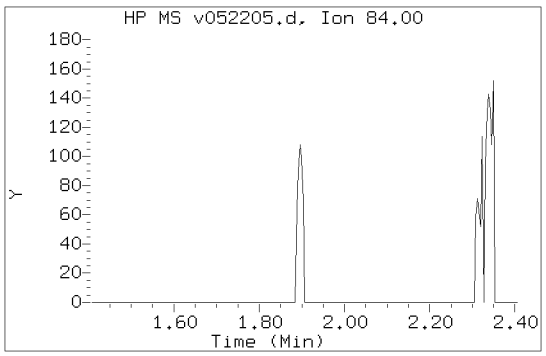
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BEFORE
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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052206.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052206.D
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Inj Date : 22-MAY-2024 21:48
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Smp Info : VSTD005;VSTD005;1;5
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Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 21:27 Cal File: V052205.D
Als bottle: 33 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	245120	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	6317	5.00000	4.83(M)
3	Chloromethane	50	1.291	1.291	(0.268)	27986	5.00000	3.67
4	Propionitrile	54	4.339	4.339	(0.902)	13197	50.0000	42.61(a)
5	Vinyl Chloride	62	1.374	1.374	(0.286)	10412	5.00000	4.69
6	Bromomethane	94	1.614	1.614	(0.335)	4737	5.00000	3.90
7	Chloroethane	64	1.696	1.696	(0.353)	7423	5.00000	4.84
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	12316	5.00000	4.86
9	Acrolein	56	2.262	2.262	(0.470)	1345	10.0000	10.54(a)
10	Acetone	43	2.405	2.405	(0.500)	9344	10.0000	10.56
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	7259	5.00000	4.70
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	23835	100.000	80.57(a)
13	Acetonitrile	39	2.663	2.663	(0.554)	8759	50.0000	43.26(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	23141	5.00000	4.44(a)
15	Iodomethane	142	2.461	2.461	(0.512)	2870	10.0000	6.24(T)
16	Acrylonitrile	53	3.061	3.061	(0.636)	6737	10.0000	8.67
17	Methylene Chloride	84	2.791	2.791	(0.580)	12092	5.00000	3.98
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	21791	5.00000	4.43
19	Carbon Disulfide	76	2.513	2.513	(0.522)	40927	10.0000	8.76
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	8073	5.00000	4.56

21 Vinyl Acetate	43	4.339	4.339 (0.902)	9530	10.0000	7.86(M)
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	15610	5.00000	4.44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	12743	5.00000	4.71(aM)
	24 2-Butanone	43	4.268	4.268	(0.887)	9381	10.0000	8.21
	25 Methacrylonitrile	41	4.496	4.496	(0.935)	4723	5.00000	3.66(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	8821	5.00000	4.07
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	9483	5.00000	4.46
	28 Chloroform	83	4.568	4.568	(0.949)	15738	5.00000	4.45
	29 Bromochloromethane	128	4.466	4.466	(0.928)	4773	5.00000	4.56
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	8395	5.00000	4.71
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	11202	5.00000	4.53
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	11619	5.00000	4.52
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	12613	5.00000	4.42
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	8623	5.00000	4.13
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	11168	5.00000	4.99
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	363477	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	35983	5.00000	4.33
	38 Trichloroethene	130	5.786	5.786	(1.043)	9366	5.00000	4.64(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	8991	5.00000	4.06(a)
	40 Methyl Methacrylate	41	5.827	5.827	(1.211)	3018	5.00000	3.93(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	5466	10.0000	7.73
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	9626	5.00000	4.18(a)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	1500	5.00000	3.56(aM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	5783	5.00000	4.61(a)
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	18552	10.0000	8.26
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	9538	5.00000	3.73(a)
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	325286	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	32218	5.00000	4.87(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	11035	5.00000	4.11(aM)
	50 Toluene	91	6.978	6.978	(0.853)	36895	5.00000	4.48(a)
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	7333	5.00000	3.68(a)
	52 2-Hexanone	43	7.593	7.593	(0.928)	12230	10.0000	8.13
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	7348	5.00000	4.52(a)
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	14915	5.00000	4.36(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	5962	5.00000	3.73(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	7207	5.00000	4.65(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	7387	5.00000	4.24(a)
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	10145	5.00000	3.48(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	25267	5.00000	4.51(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	7033	5.00000	4.14(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	11835	5.00000	4.49(a)
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	27975	10.0000	8.64(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	13646	5.00000	4.30(a)
	64 Styrene	104	8.762	8.762	(1.071)	23698	5.00000	4.41(a)
	66 Bromoform	173	8.916	8.916	(1.090)	3641	5.00000	3.66(Ta)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	34220	5.00000	4.35(a)
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	11307	5.00000	4.24(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.124)	12392	5.00000	4.91(a)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	173523	50.0000	
	71 1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	10722	5.00000	4.03(a)
	72 trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	2495	5.00000	4.29(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	38778	5.00000	4.32(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	10442	5.00000	4.57(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	25668	5.00000	4.15(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	25762	5.00000	4.43(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.942)	28612	5.00000	4.32(a)

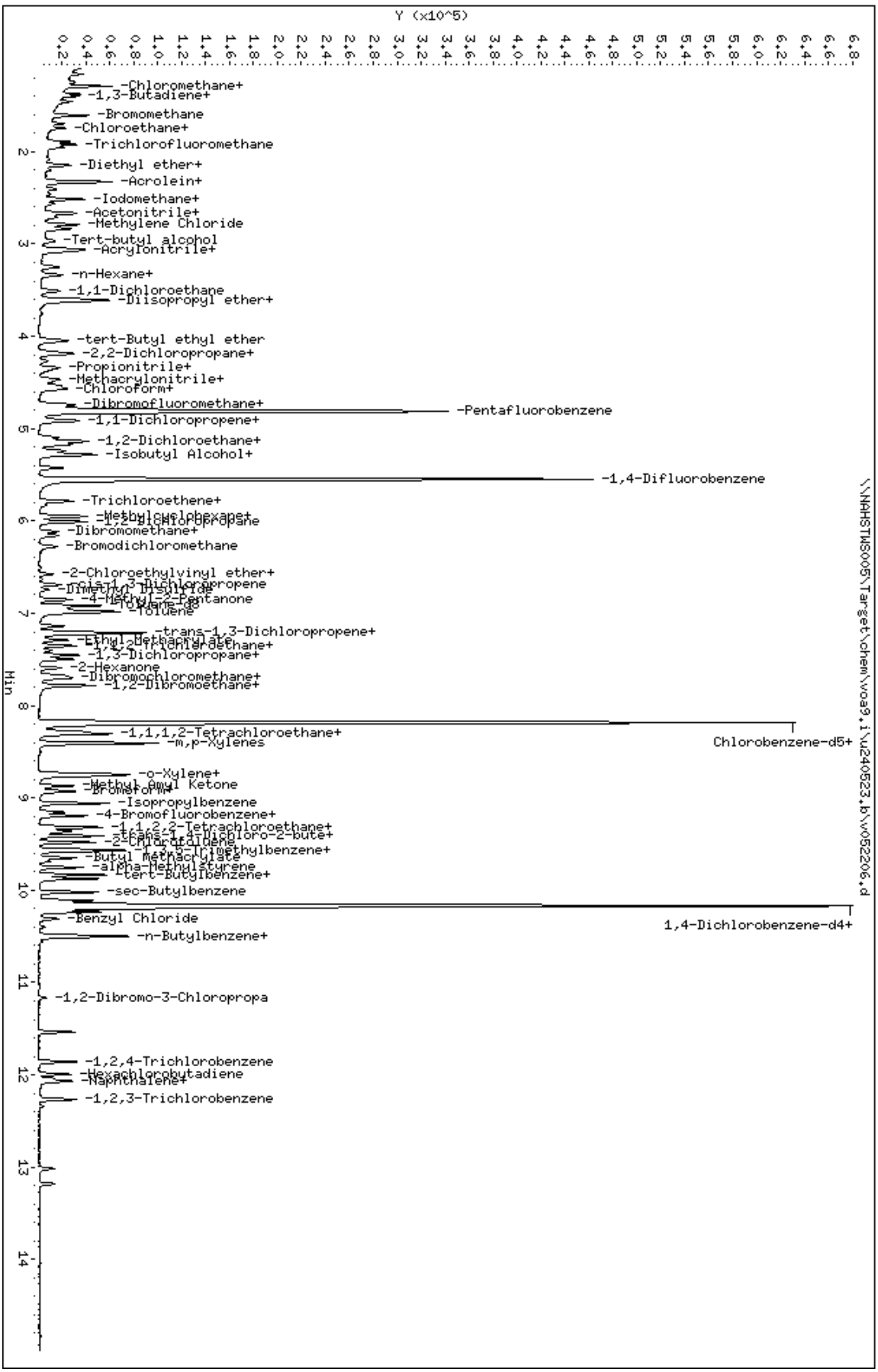
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	23621	5.00000	4.35(a)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	25634	5.00000	4.04(a)
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	31236	5.00000	4.33(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	26510	5.00000	4.22(a)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	17996	5.00000	4.38(aM)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	19669	5.00000	4.29(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	10330	5.00000	2.90(a)
87	n-Butylbenzene	91	10.491	10.491	(1.032)	24166	5.00000	3.96(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	17994	5.00000	4.33(a)
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	1114	5.00000	3.79(a)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	10292	5.00000	3.95(a)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	4784	5.00000	4.17(a)
92	Naphthalene	128	12.069	12.069	(1.187)	20220	5.00000	3.65(a)
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	9782	5.00000	4.03(a)
146	Methyl acetate	43	2.708	2.708	(0.563)	11741	5.00000	4.80(a)
138	Freon TF	101	2.330	2.330	(0.484)	13429	5.00000	5.08
141	Cyclohexane	56	4.778	4.778	(0.993)	16026	5.00000	3.60(a)
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	3112	10.0000	6.70
147	Methylcyclohexane	55	5.947	5.947	(1.072)	19782	5.00000	4.53(a)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	2038	100.000	73.42
132	n-Butanol	56	5.827	5.827	(1.211)	3558	100.000	77.06(a)
136	n-Hexane	57	3.334	3.334	(0.693)	8824	5.00000	4.60(a)
139	Diethyl ether	59	2.139	2.139	(0.445)	6208	5.00000	4.57(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	12384	100.000	84.94
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	9227	100.000	78.52(T)
152	Amyl alcohol	42	7.402	7.402	(0.905)	4202	100.000	73.64
156	Diisopropyl ether	45	3.619	3.619	(0.752)	28630	5.00000	4.45(Ta)
162	Butyl acrylate	55	8.732	8.732	(1.067)	14069	5.00000	4.08(a)
187	n-Amyl acetate	43	8.931	8.931	(1.092)	15463	5.00000	4.20(aM)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	39000	5.00000	4.34(a)
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	25410	5.00000	4.31(a)
167	Ethanol	45	2.082	2.082	(0.433)	2037	100.000	84.94
172	tert-Butyl formate	59	5.239	5.239	(1.089)	12331	10.0000	8.73(M)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	17497	100.000	81.38(M)
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	24148	5.00000	4.45(a)
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	23682	5.00000	4.34(a)
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	11797	100.000	83.98
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	42496	100.000	78.18
140	1,3-Butadiene	54	1.400	1.400	(0.291)	4494	5.00000	4.64(a)
182	Epichlorohydrin	57	6.629	6.629	(1.195)	2190	20.0000	16.55(M)
M 94	1,2-Dichloroethylene (total)	96				17556	10.0000	(a)
130	Ethyl Acetate	43	4.339	4.339	(0.902)	9900	5.00000	4.13(a)
131	Methyl Acrylate	55	4.369	4.369	(0.908)	9474	5.00000	4.03(a)
189	n-Butyl acetate	43	7.705	7.705	(0.942)	13508	5.00000	4.02(a)
134	Cyclohexanone	55	9.152	9.152	(0.900)	8573	100.000	85.45(a)
185	Isoprene	39	2.154	2.154	(0.448)	2160	5.00000	5.18(M)
188	Isopropyl acetate	43	5.280	5.280	(0.951)	23835	5.00000	3.91(a)
150	Allyl alcohol	57	3.334	3.334	(0.693)	8824	100.000	92.07
194	Acetaldehyde	44	1.456	1.456	(0.303)	5839	20.0000	17.67(M)
195	Methyl Amyl Ketone	43	8.867	8.867	(1.084)	17607	5.00000	4.31(a)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	3121	5.00000	3.03(a)
202	Isobutylene	41	1.745	1.745	(0.363)	3060	5.00000	5.46(M)

133 Ethyl Acrylate	55	5.947	5.947 (1.236)	19782	5.00000	4.57(a)
163 Butyl methacrylate	41	9.647	9.647 (0.949)	10657	5.00000	4.51(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.198	2.198	(0.457)	1170	10.0000	6.31
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	4851	5.00000	2.87(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052206.d
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Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

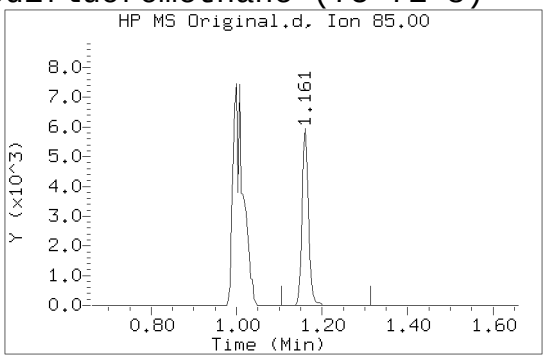
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InstruID : VOA9.i
LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

Reason Code:

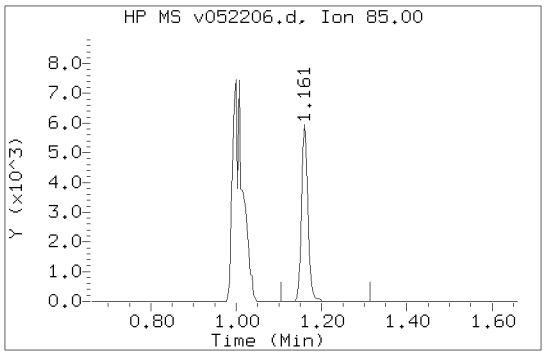
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HEIGHT
5963
23-May-2024
09:51
firat
tastan



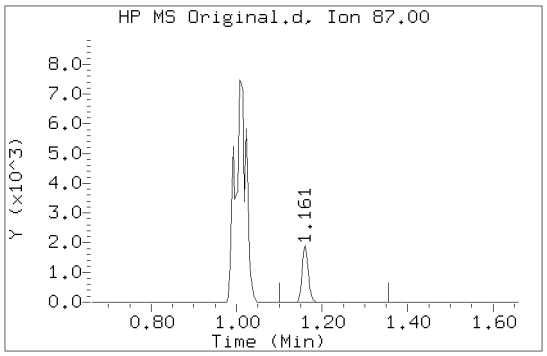
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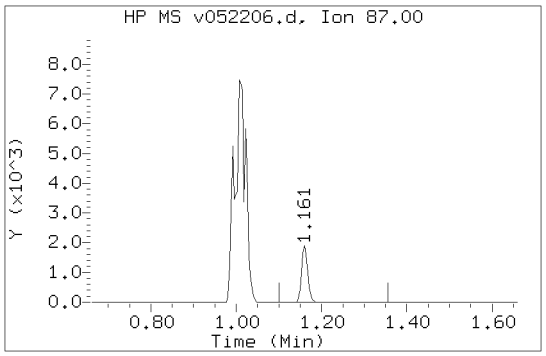
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23-May-2024
09:51
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tastan



AFTER

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23-May-2024
09:51
firat
tastan

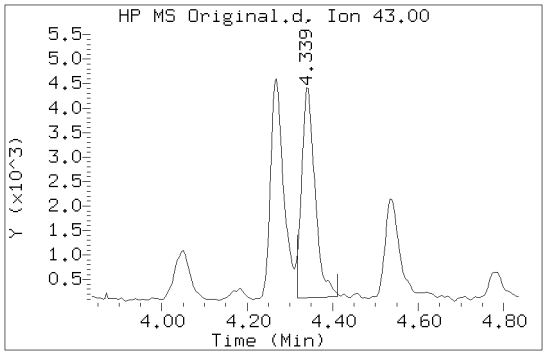


Vinyl Acetate (108-05-4)

Reason Code:

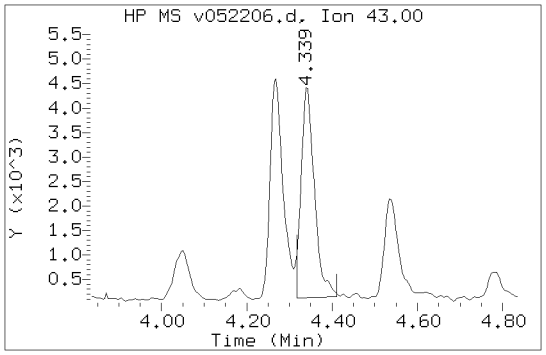
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23-May-2024
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firat
tastan



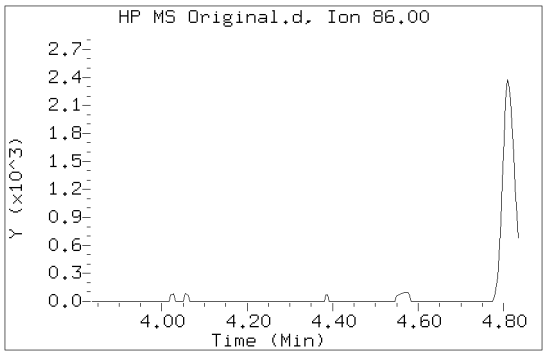
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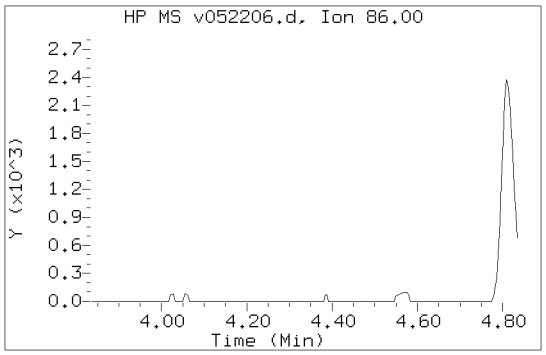
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23-May-2024
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AFTER

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HEIGHT
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firat
tastan



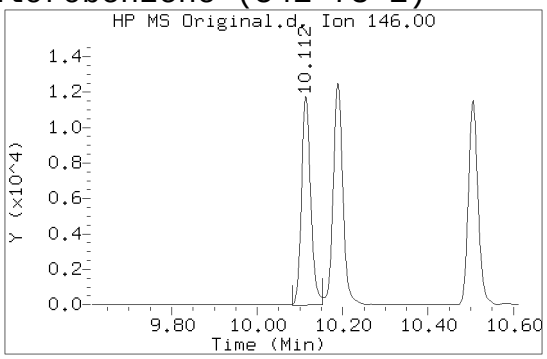
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InstruID : VOA9.i
LabSampID : VSTD005

1,3-Dichlorobenzene (541-73-1)

Reason Code:

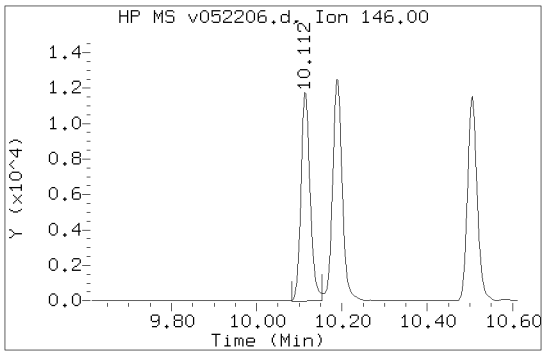
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HEIGHT
11777
23-May-2024
09:51
firat
tastan



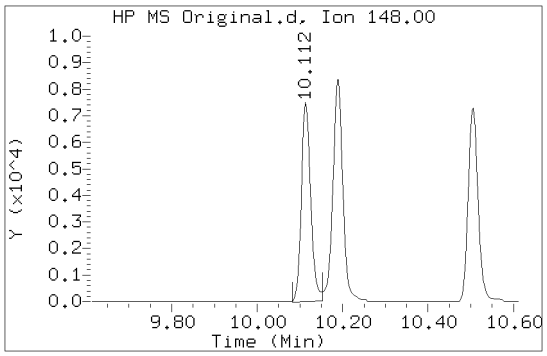
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23-May-2024
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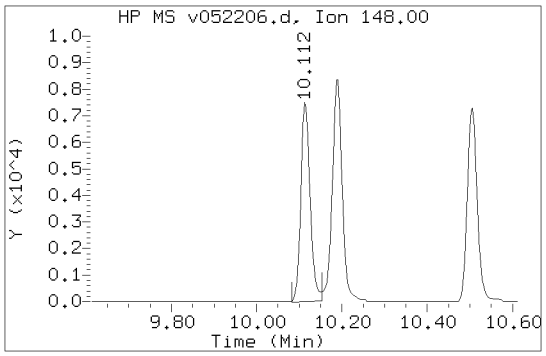
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23-May-2024
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firat
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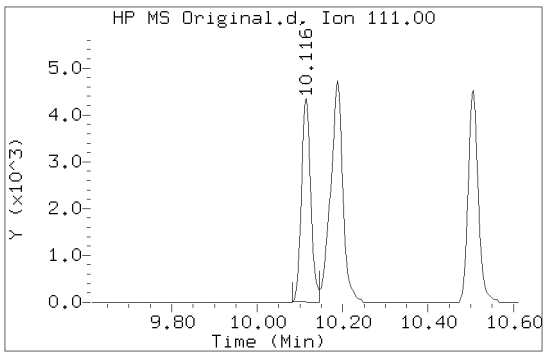
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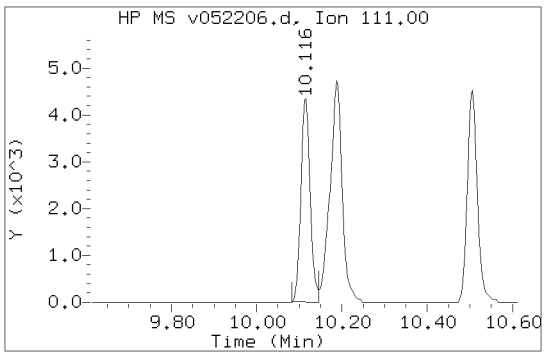
BEFORE

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23-May-2024
09:51
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AFTER

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23-May-2024
09:51
firat
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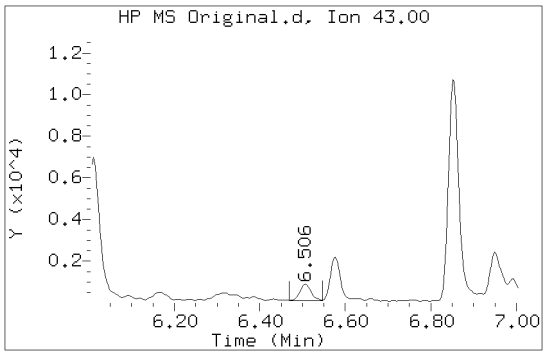


2-Nitropropane (79-46-9)

Reason Code:

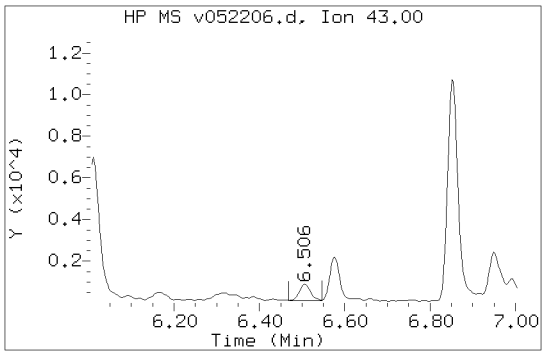
BEFORE

MASS
43
AREA
1500
HEIGHT
792
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
1500
HEIGHT
792
23-May-2024
09:51
firat
tastan



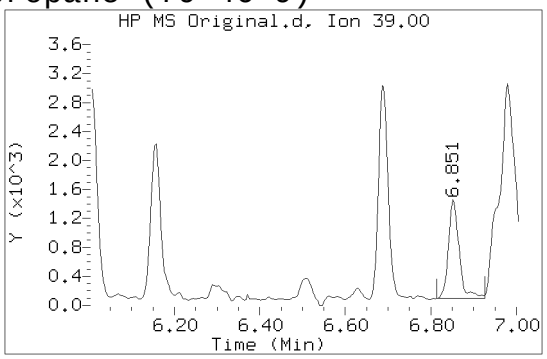
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

2-Nitropropane (79-46-9)

Reason Code:

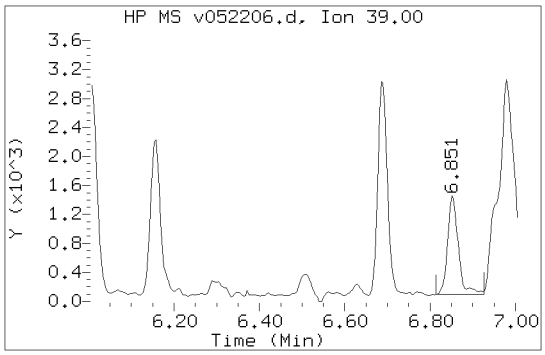
BEFORE

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23-May-2024
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AFTER

MASS
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HEIGHT
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23-May-2024
09:51
firat
tastan

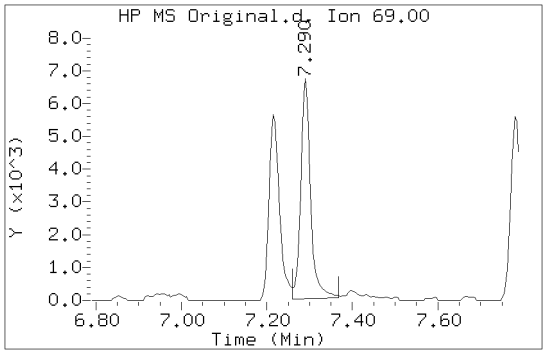


Ethyl Methacrylate (97-63-2)

Reason Code:

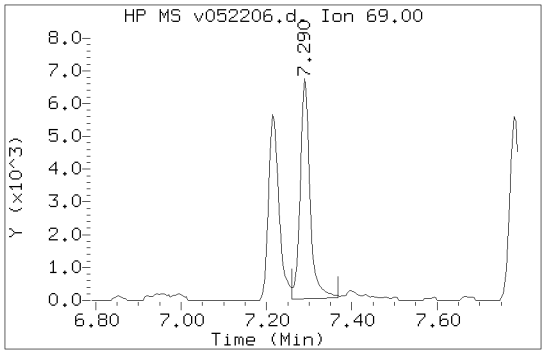
BEFORE

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AREA
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HEIGHT
6715
23-May-2024
09:51
firat
tastan



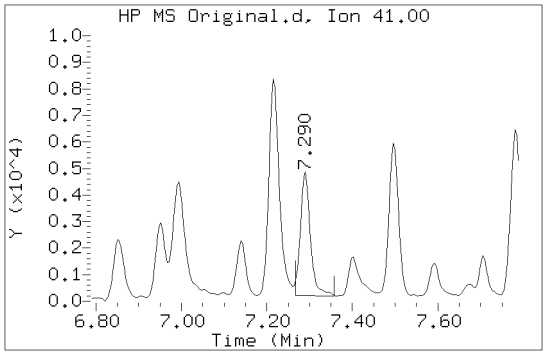
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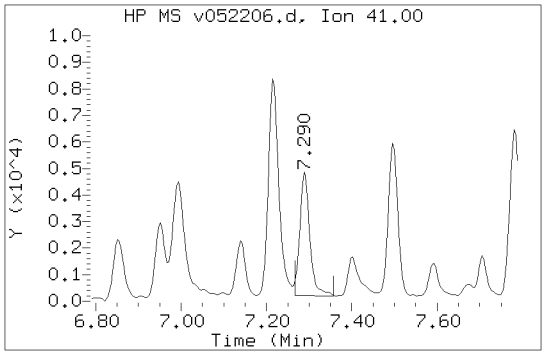
BEFORE

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HEIGHT
4657
23-May-2024
09:51
firat
tastan



AFTER

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7774
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23-May-2024
09:51
firat
tastan

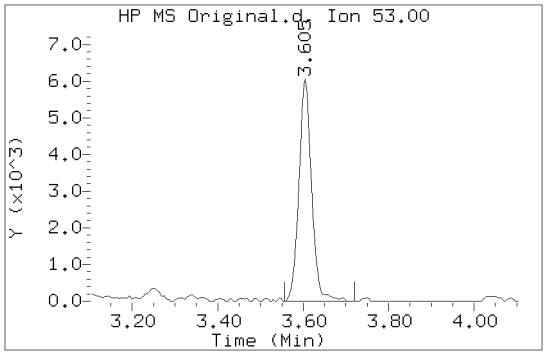


Chloroprene (126-99-8)

Reason Code:

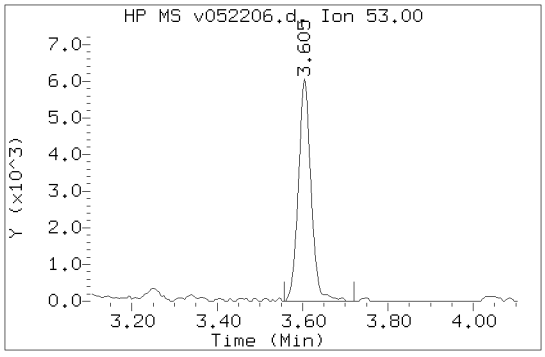
BEFORE

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HEIGHT
6062
23-May-2024
09:51
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tastan



AFTER

MASS
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HEIGHT
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23-May-2024
09:51
firat
tastan



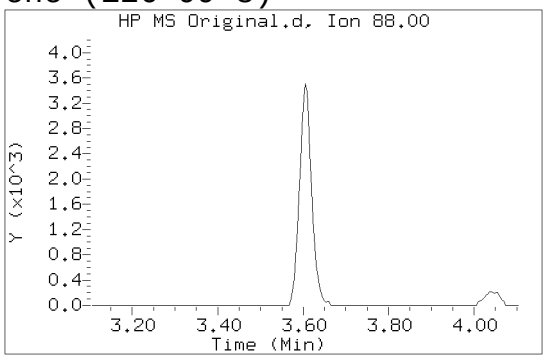
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InstruID : VOA9.i
LabSampID : VSTD005

Chloroprene (126-99-8)

Reason Code:

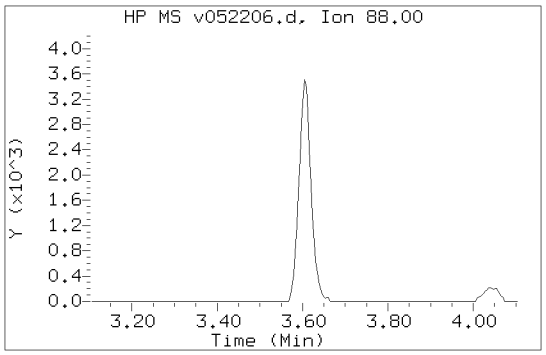
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HEIGHT
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23-May-2024
09:51
firat
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AFTER

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23-May-2024
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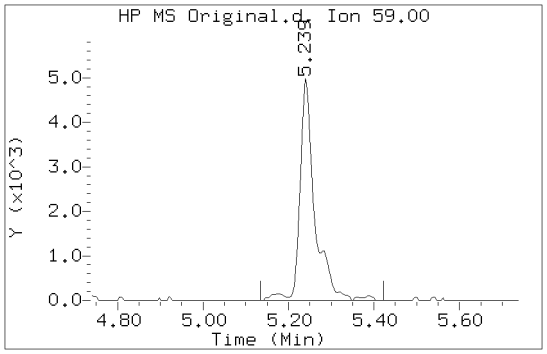


tert-Butyl formate (762-75-4)

Reason Code:

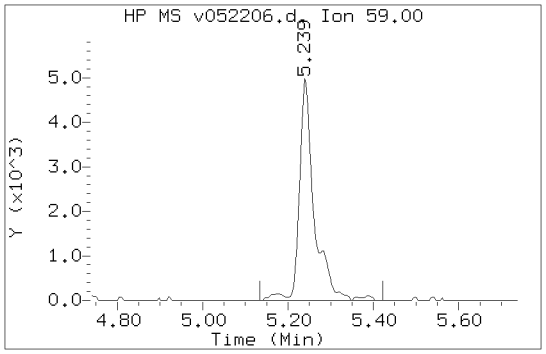
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HEIGHT
4979
23-May-2024
09:51
firat
tastan



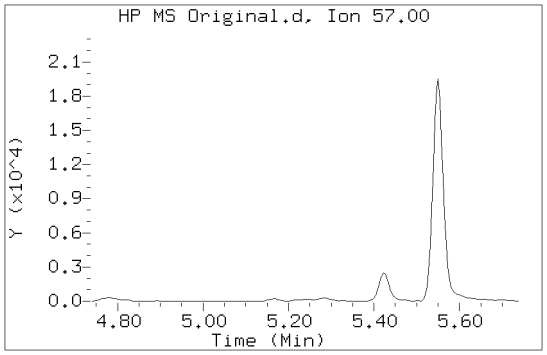
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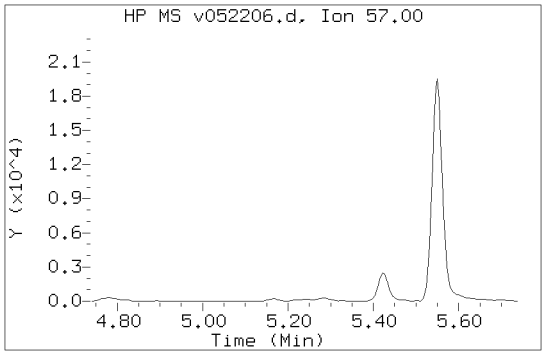
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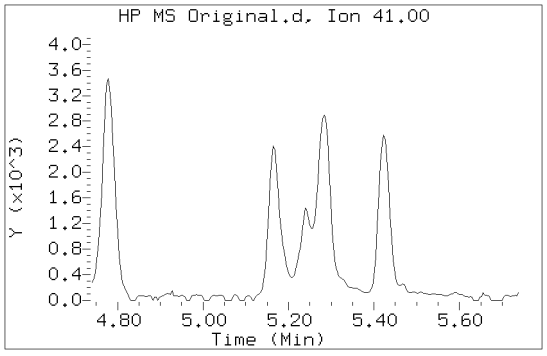
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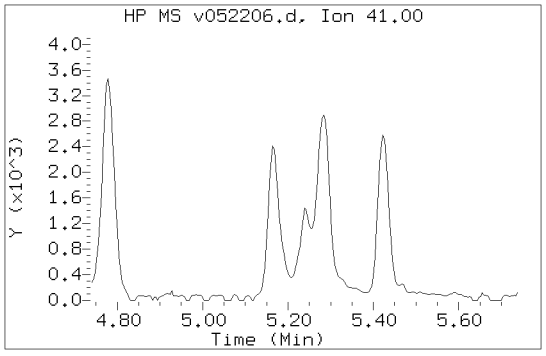
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23-May-2024
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AFTER

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firat
tastan



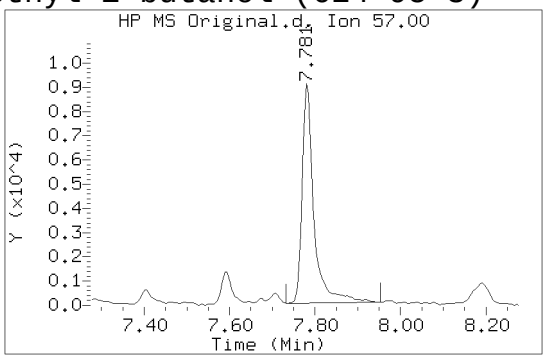
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

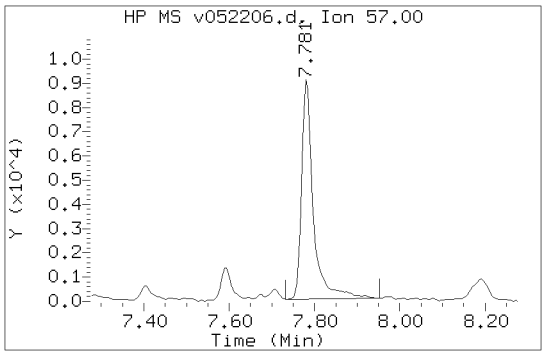
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23-May-2024
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firat
tastan



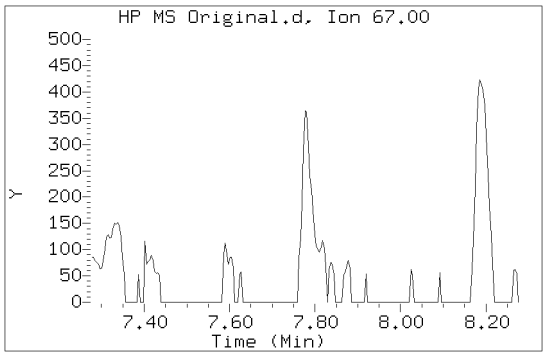
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23-May-2024
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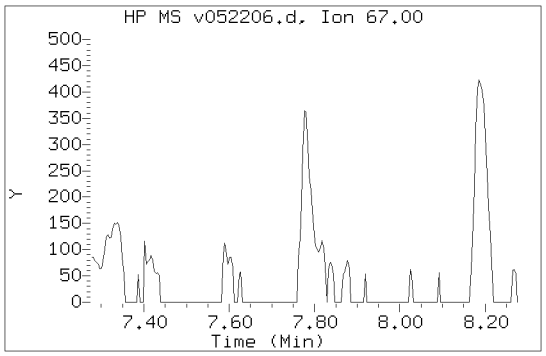
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23-May-2024
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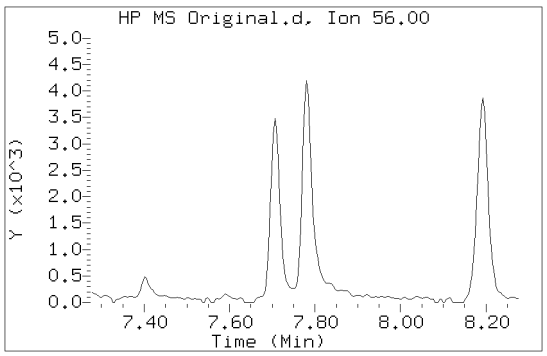
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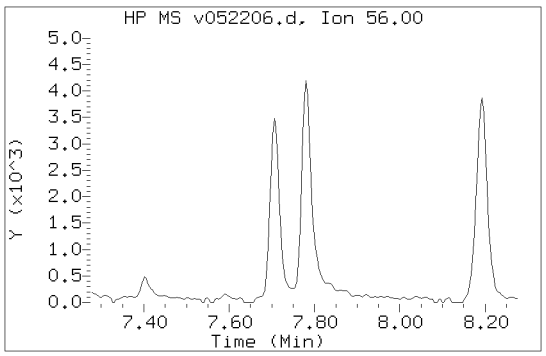
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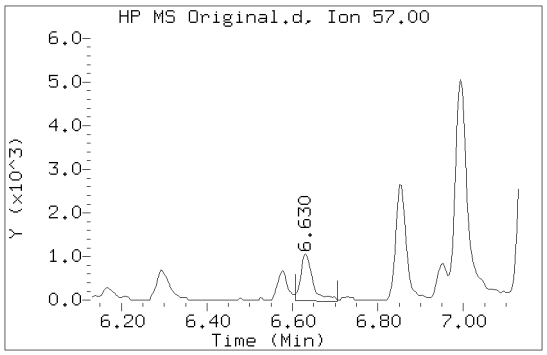


Epichlorohydrin (106-89-8)

Reason Code:

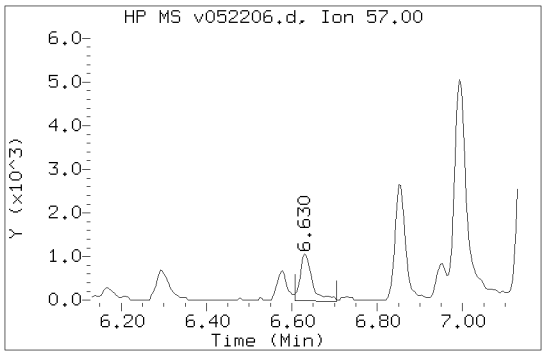
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AFTER

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tastan



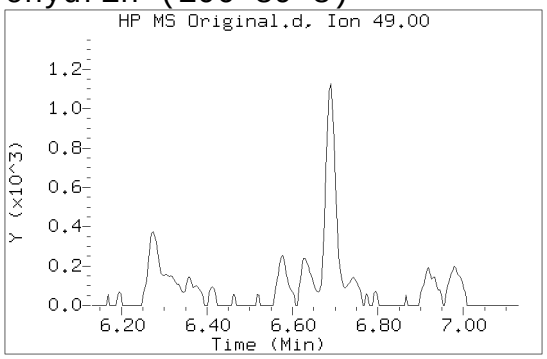
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

Epichlorohydrin (106-89-8)

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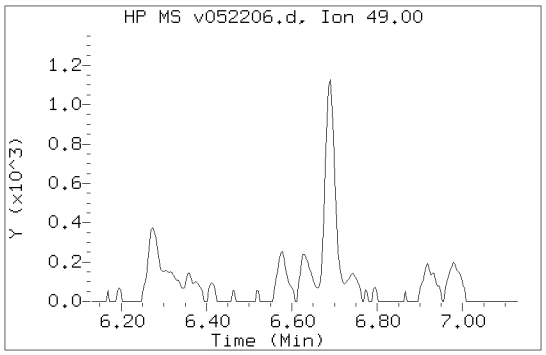
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AFTER

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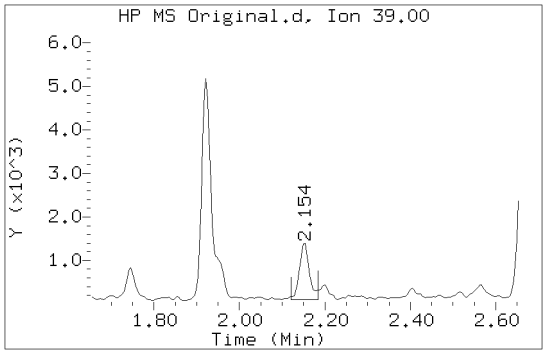


Isoprene (78-79-5)

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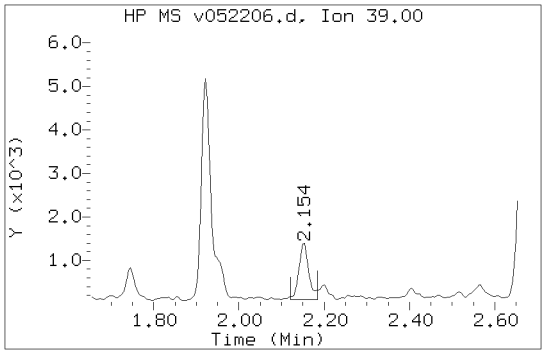
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firat
tastan



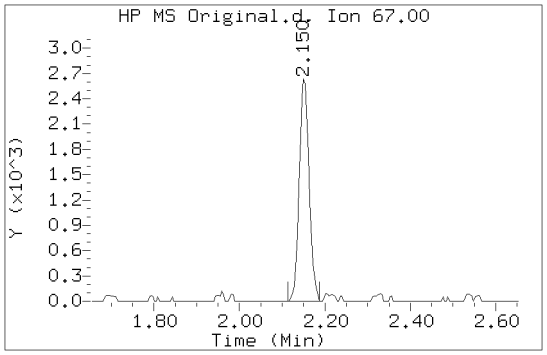
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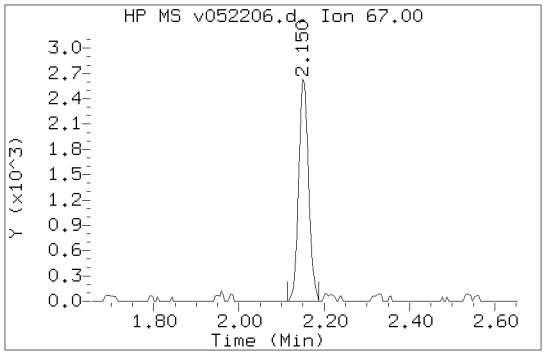
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tastan



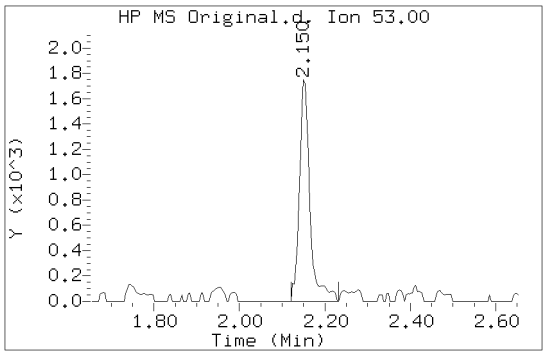
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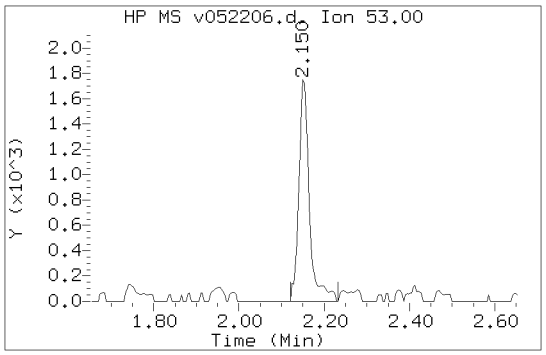
BEFORE

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1750
23-May-2024
09:51
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AFTER

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23-May-2024
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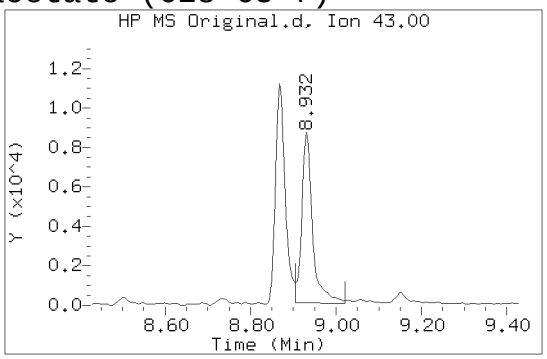
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

n-Amyl acetate (628-63-7)

Reason Code:

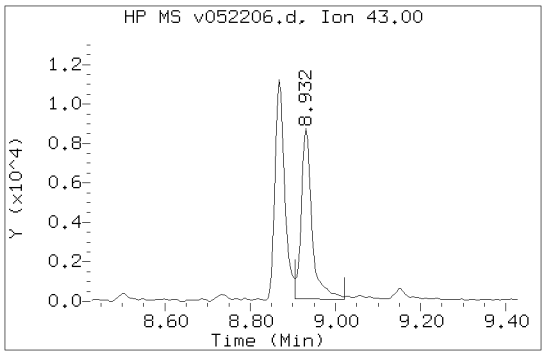
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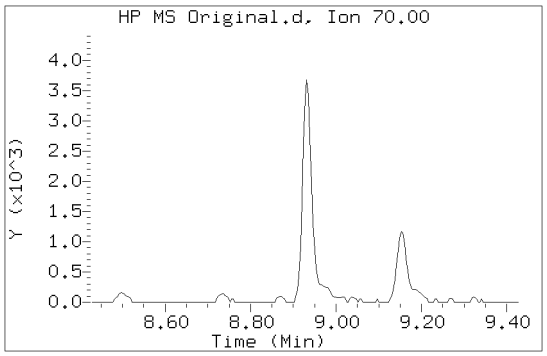
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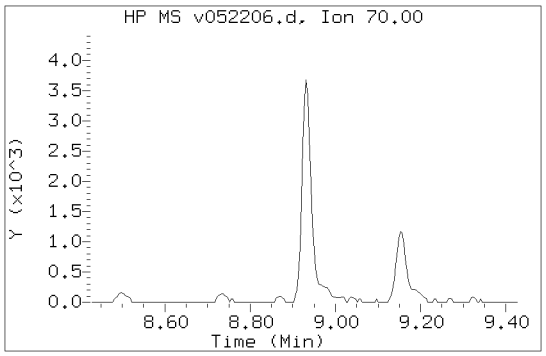
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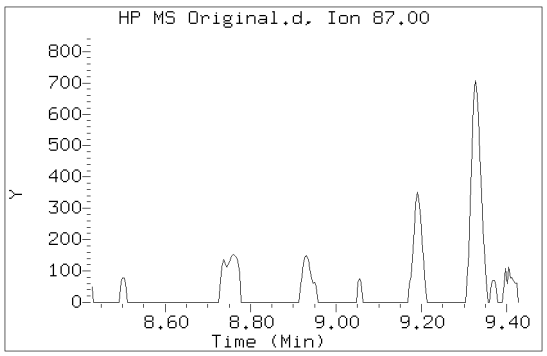
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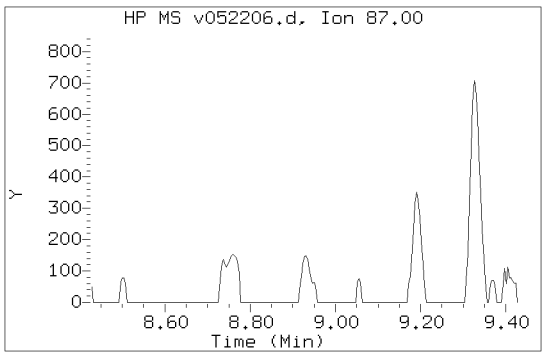
BEFORE

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AFTER

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09:51
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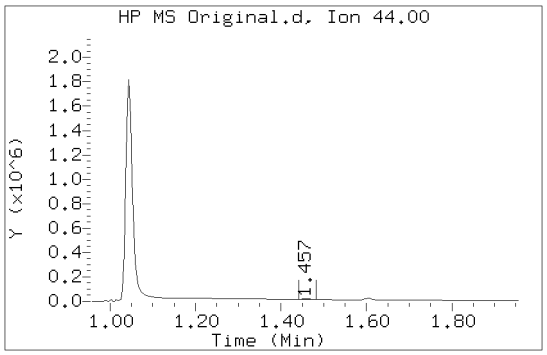


Acetaldehyde (75-07-0)

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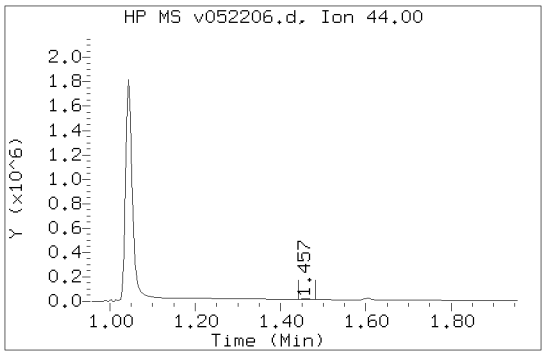
BEFORE

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5019
23-May-2024
09:51
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AFTER

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HEIGHT
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23-May-2024
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firat
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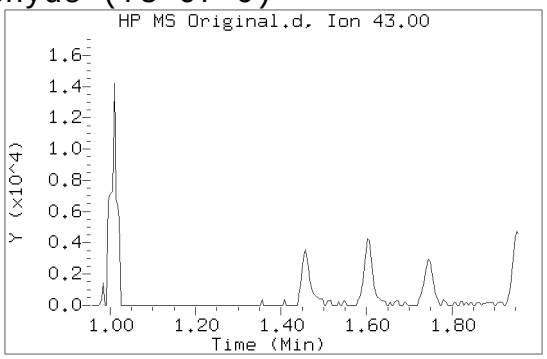
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

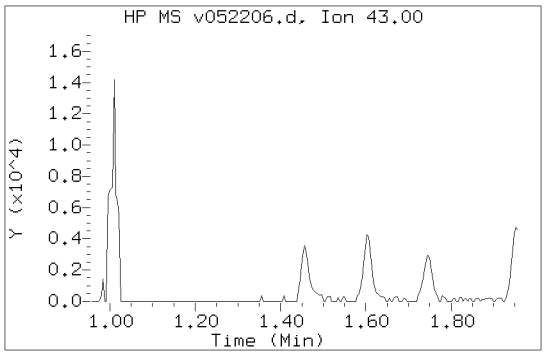
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09:51
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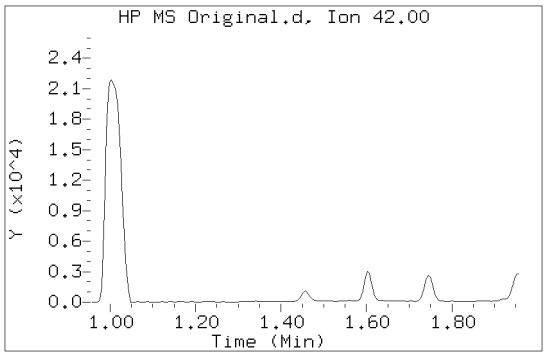
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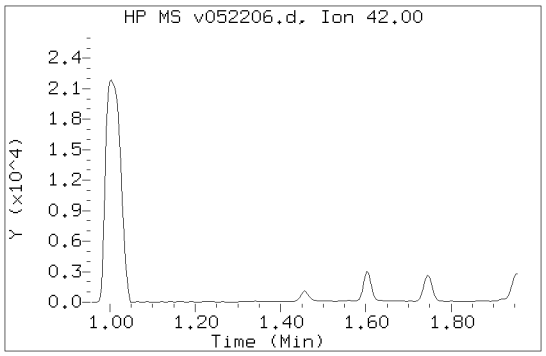
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AFTER

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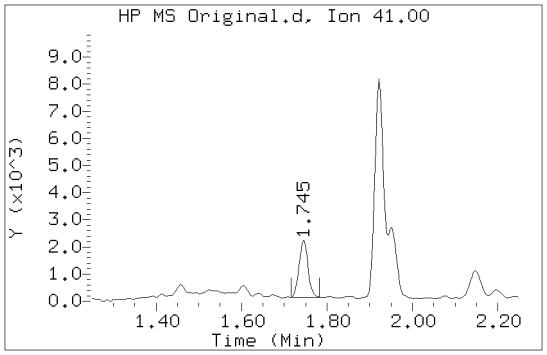


Isobutylene (115-11-7)

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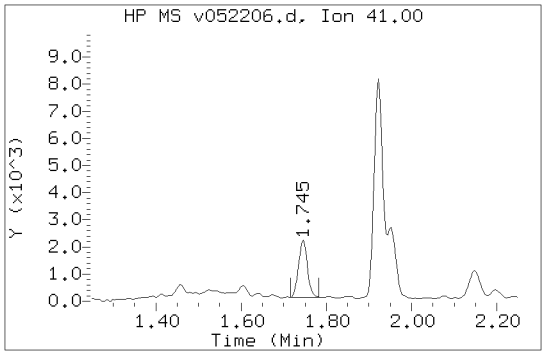
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tastan



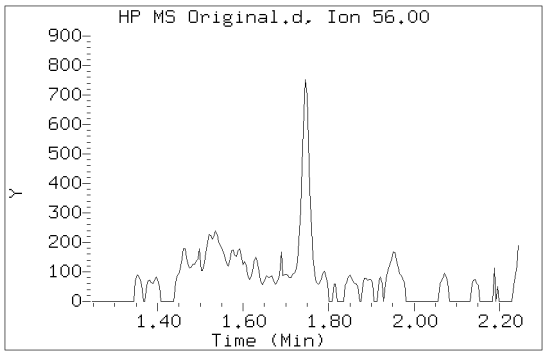
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09:51
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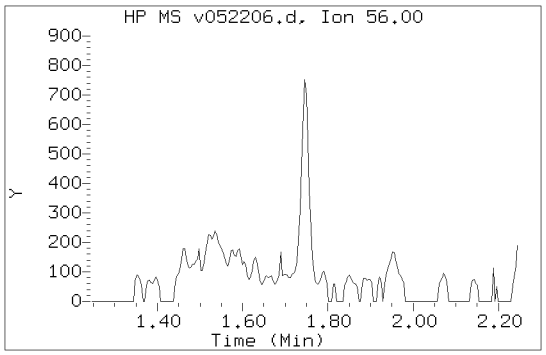
BEFORE

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AFTER

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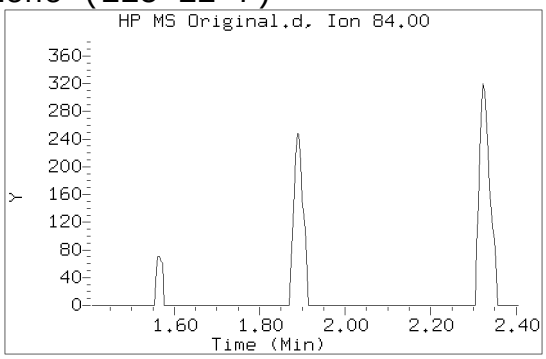
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Inj Date : 22-MAY-2024 21:48
InstruID : VOA9.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

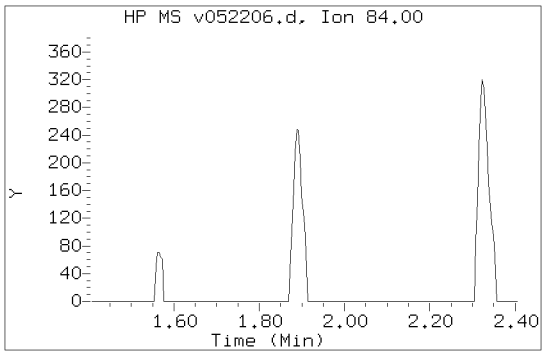
BEFORE

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09:51
firat
tastan



AFTER

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HEIGHT
0
23-May-2024
09:51
firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052207.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052207.D
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Inj Date : 22-MAY-2024 22:10
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 21:48 Cal File: V052206.D
Als bottle: 34 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.812	(1.000)	237051	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	25670	20.0000	20.29(M)
3	Chloromethane	50	1.295	1.295	(0.269)	92896	20.0000	12.62
4	Propionitrile	54	4.335	4.335	(0.901)	53459	200.000	178.48(a)
5	Vinyl Chloride	62	1.378	1.378	(0.286)	41938	20.0000	19.53
6	Bromomethane	94	1.618	1.618	(0.336)	14446	20.0000	12.30
7	Chloroethane	64	1.696	1.696	(0.353)	29580	20.0000	19.94
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	51124	20.0000	20.86
9	Acrolein	56	2.262	2.262	(0.470)	3650	40.0000	29.59
10	Acetone	43	2.409	2.409	(0.501)	29961	40.0000	35.01
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	29118	20.0000	19.51
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	100941	400.000	352.84(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	35775	200.000	182.72(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	88098	20.0000	17.47(a)
15	Iodomethane	142	2.461	2.461	(0.512)	8911	40.0000	20.04
16	Acrylonitrile	53	3.065	3.065	(0.637)	26132	40.0000	34.81
17	Methylene Chloride	84	2.795	2.795	(0.581)	38922	20.0000	13.27
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	83654	20.0000	17.59
19	Carbon Disulfide	76	2.517	2.517	(0.523)	173430	40.0000	38.41
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	32224	20.0000	18.84

21 Vinyl Acetate	43	4.339	4.339 (0.902)	40971	40.0000	34.95
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	61717	20.0000	18.16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	50213	20.0000	19.21(M)
	24 2-Butanone	43	4.264	4.264	(0.886)	38584	40.0000	34.92
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	20676	20.0000	16.56(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	39638	20.0000	18.95
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	39020	20.0000	19.01
	28 Chloroform	83	4.572	4.572	(0.950)	63122	20.0000	18.49
	29 Bromochloromethane	128	4.467	4.467	(0.928)	18597	20.0000	18.39
$	30 Dibromofluoromethane	113	4.748	4.748	(0.987)	33492	20.0000	19.45
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	48058	20.0000	20.11
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	46989	20.0000	19.12
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	50147	20.0000	18.37
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	38147	20.0000	19.10
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	41399	20.0000	19.14
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	347932	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	145783	20.0000	18.34
	38 Trichloroethene	130	5.786	5.786	(1.043)	36804	20.0000	19.08
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	40015	20.0000	18.88
	40 Methyl Methacrylate	41	5.824	5.824	(1.210)	11958	20.0000	16.13(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	25169	40.0000	37.20
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	39815	20.0000	18.06
	43 2-Nitropropane	43	6.506	6.506	(1.352)	6840	20.0000	16.81(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	22877	20.0000	19.06
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	80664	40.0000	37.23
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	46281	20.0000	18.94
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	314018	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	123251	20.0000	19.32
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	46429	20.0000	18.08(aM)
	50 Toluene	91	6.978	6.978	(0.853)	153438	20.0000	19.33
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	36762	20.0000	19.28
	52 2-Hexanone	43	7.589	7.589	(0.928)	51129	40.0000	35.24
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	29346	20.0000	18.72
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	61013	20.0000	18.51
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	29397	20.0000	19.10
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	29963	20.0000	20.02
	57 1,2-Dibromoethane	107	7.781	7.781	(0.951)	32376	20.0000	19.27
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	31204	20.0000	11.19
	59 Chlorobenzene	112	8.208	8.208	(1.003)	97577	20.0000	18.06
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	31195	20.0000	19.04
	61 Ethylbenzene	106	8.305	8.305	(1.015)	48129	20.0000	18.92
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	122657	40.0000	39.26
	63 o-Xylene	106	8.744	8.744	(1.069)	59411	20.0000	19.43
	64 Styrene	104	8.759	8.759	(1.071)	102416	20.0000	19.74
	66 Bromoform	173	8.916	8.916	(1.090)	17174	20.0000	17.92
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	149702	20.0000	19.74
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	47816	20.0000	18.32
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	46114	20.0000	18.94
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	170035	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	46169	20.0000	17.73
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	9783	20.0000	17.45(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	174297	20.0000	19.84
	74 Bromobenzene	156	9.314	9.314	(0.916)	41506	20.0000	18.56
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	120750	20.0000	19.92

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	106799	20.0000	18.76
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	123529	20.0000	19.06

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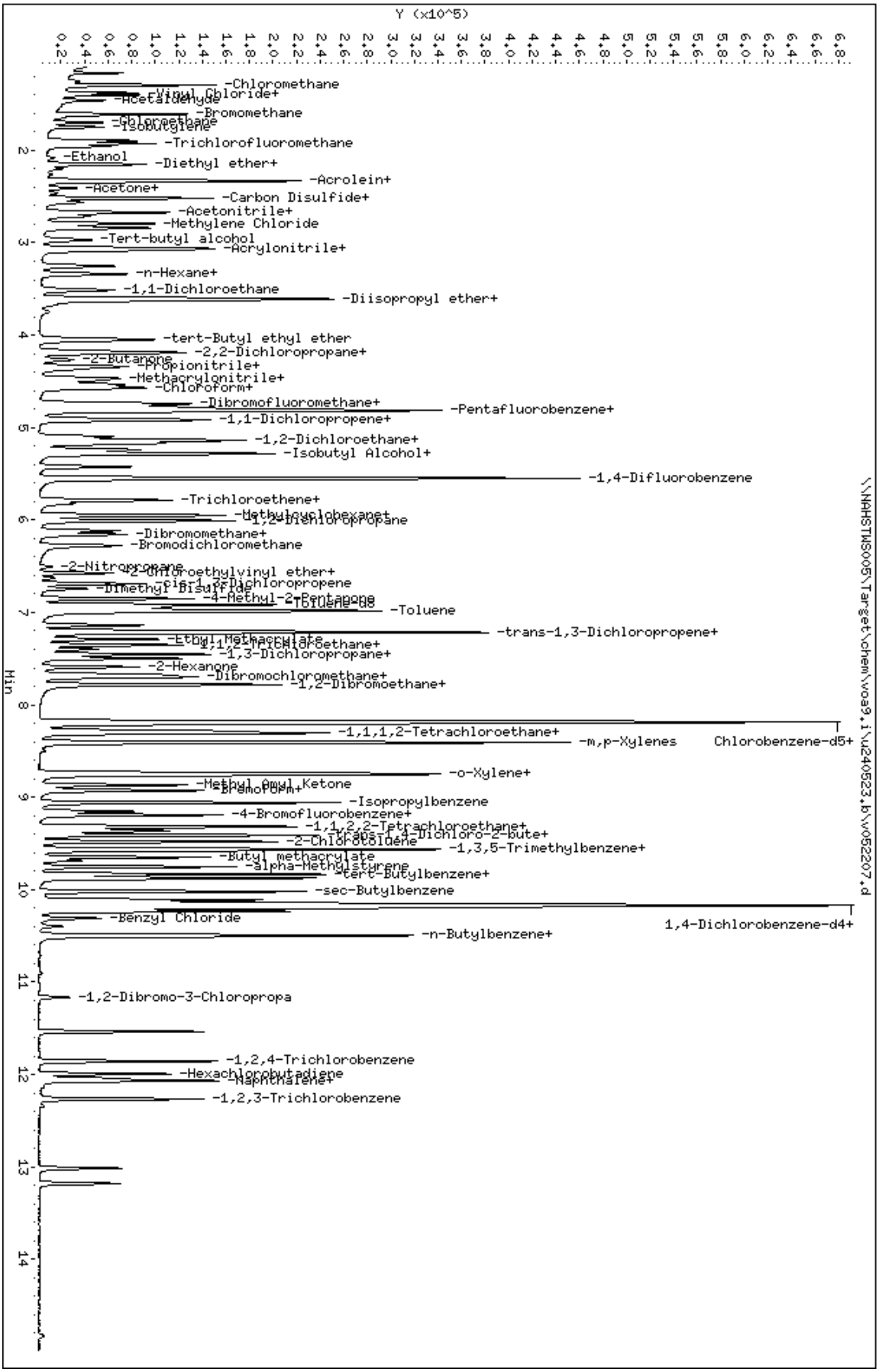
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	106932	20.0000	20.11
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	118805	20.0000	19.10
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	142054	20.0000	20.10
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	122382	20.0000	19.89
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	73922	20.0000	18.38(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	77028	20.0000	17.16
86	Benzyl Chloride	91	10.311	10.311	(1.260)	34867	20.0000	10.16
87	n-Butylbenzene	91	10.491	10.491	(1.032)	109317	20.0000	18.30
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	72010	20.0000	17.68
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	5037	20.0000	17.49
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	45971	20.0000	18.01
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	20767	20.0000	18.51
92	Naphthalene	128	12.065	12.065	(1.187)	103040	20.0000	19.03
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	43170	20.0000	18.16
146	Methyl acetate	43	2.712	2.712	(0.564)	40129	20.0000	16.98
138	Freon TF	101	2.334	2.334	(0.485)	53626	20.0000	21.00
141	Cyclohexane	56	4.782	4.782	(0.994)	56651	20.0000	13.18
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	14728	40.0000	32.80
147	Methylcyclohexane	55	5.944	5.944	(1.071)	80527	20.0000	19.27
135	1,4-Dioxane	88	6.169	6.169	(1.282)	6932	400.000	258.25(M)
132	n-Butanol	56	5.824	5.824	(1.210)	15565	400.000	348.61(a)
136	n-Hexane	57	3.338	3.338	(0.694)	35519	20.0000	19.16
139	Diethyl ether	59	2.142	2.142	(0.445)	23422	20.0000	17.83
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	47273	400.000	335.30
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	36513	400.000	321.31(T)
152	Amyl alcohol	42	7.398	7.398	(0.904)	17278	400.000	313.67
156	Diisopropyl ether	45	3.619	3.619	(0.752)	111300	20.0000	17.89(T)
162	Butyl acrylate	55	8.733	8.733	(1.067)	56775	20.0000	17.09
187	n-Amyl acetate	43	8.928	8.928	(1.091)	63254	20.0000	17.80
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	147876	20.0000	16.79
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	109398	20.0000	18.97
167	Ethanol	45	2.083	2.083	(0.433)	7268	400.000	313.39
172	tert-Butyl formate	59	5.239	5.239	(1.089)	47935	40.0000	35.11
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	74287	400.000	357.94
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	97788	20.0000	18.65
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	93982	20.0000	17.83
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	47935	400.000	352.85
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	197066	400.000	378.76
140	1,3-Butadiene	54	1.400	1.400	(0.291)	19106	20.0000	20.39
182	Epichlorohydrin	57	6.630	6.630	(1.195)	9275	80.0000	73.24
M 94	1,2-Dichloroethylene (total)	96				71244	40.0000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	46445	20.0000	18.64
130	Ethyl Acetate	43	4.339	4.339	(0.902)	40345	20.0000	17.44
131	Methyl Acrylate	55	4.369	4.369	(0.908)	41236	20.0000	18.15
189	n-Butyl acetate	43	7.702	7.702	(0.941)	58533	20.0000	18.07
134	Cyclohexanone	55	9.153	9.153	(0.900)	32764	400.000	333.30(a)
185	Isoprene	39	2.154	2.154	(0.448)	8497	20.0000	21.08
188	Isopropyl acetate	43	5.284	5.284	(0.952)	101323	20.0000	17.38
150	Allyl alcohol	57	3.338	3.338	(0.694)	35519	400.000	383.22
194	Acetaldehyde	44	1.460	1.460	(0.304)	25470	80.0000	79.71(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.084)	71357	20.0000	18.12
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	15182	20.0000	15.30

202 Isobutylene	41	1.749	1.749 (0.364)	11735	20.0000	21.65(M)
133 Ethyl Acrylate	55	5.944	5.944 (1.235)	80527	20.0000	19.26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	43896	20.0000	18.97
159 Propylene oxide	43	2.199	2.199	(0.457)	5236	40.0000	29.20
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	25358	20.0000	15.35

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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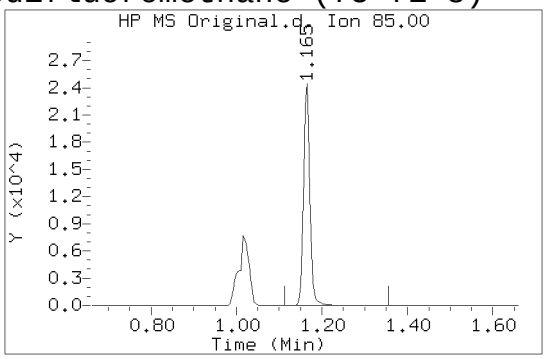
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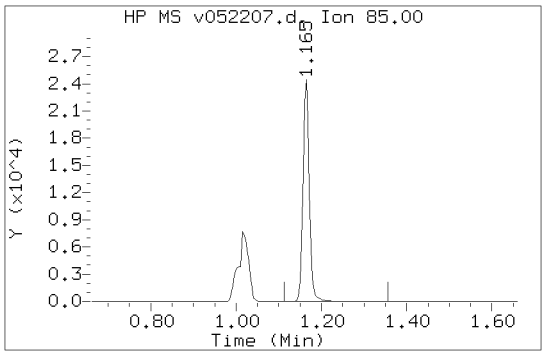
Dichlorodifluoromethane (75-71-8)

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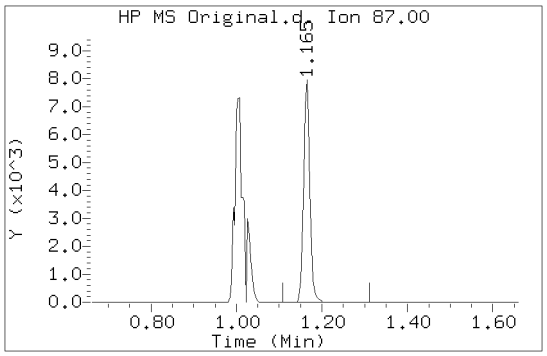
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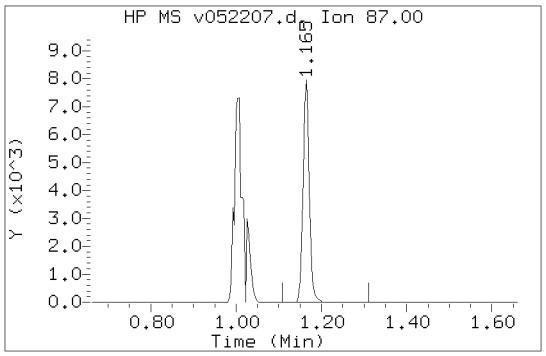
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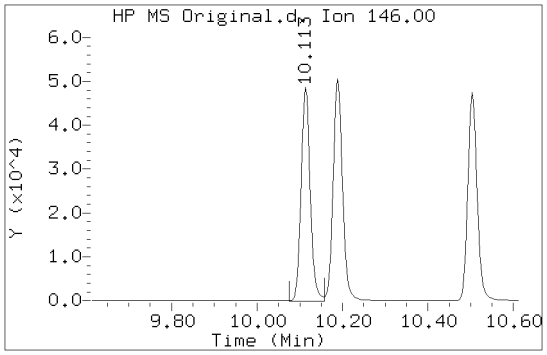
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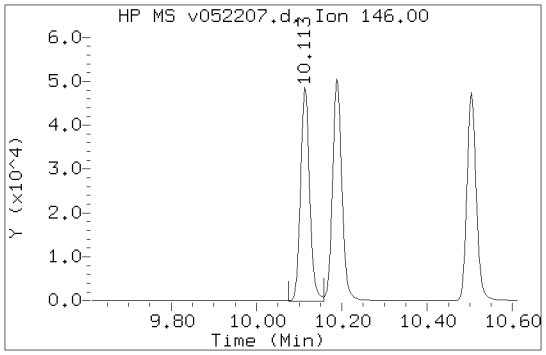
1,3-Dichlorobenzene (541-73-1)

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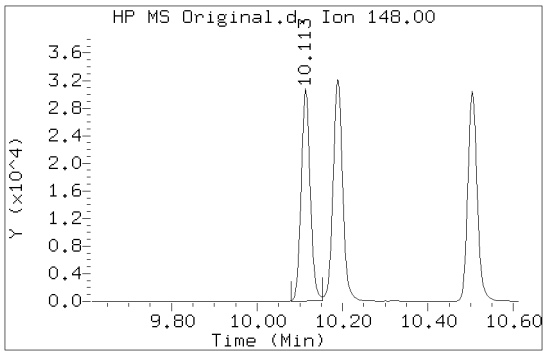
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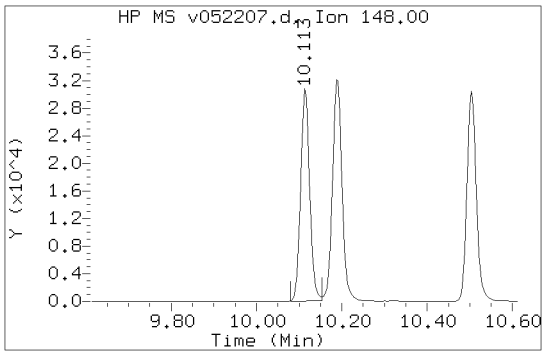
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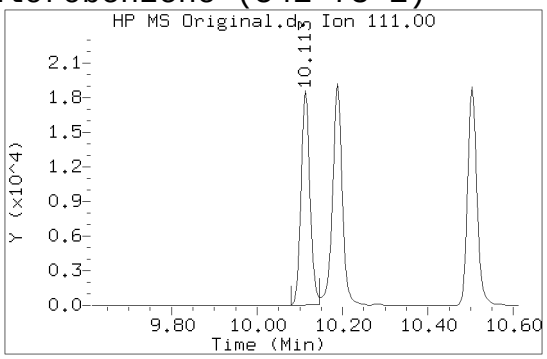


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1,3-Dichlorobenzene (541-73-1)

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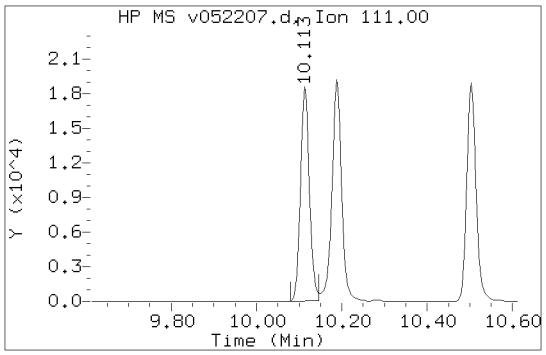
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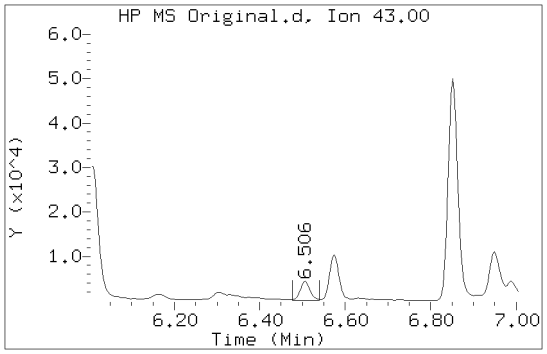
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2-Nitropropane (79-46-9)

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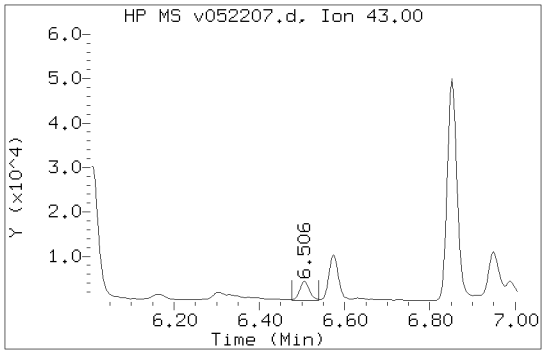
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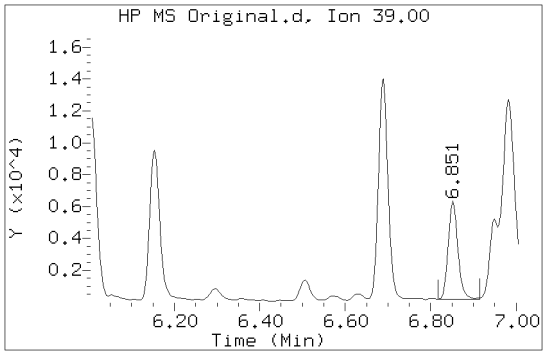
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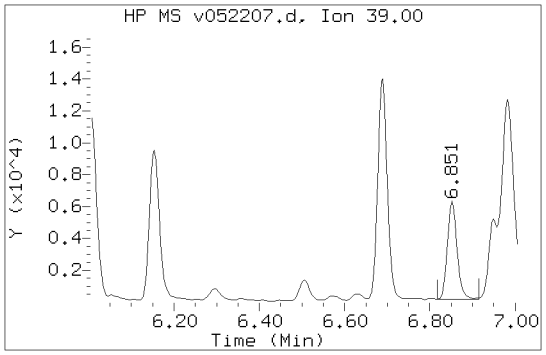
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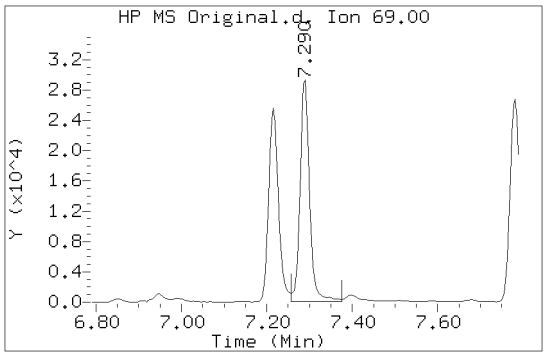
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Ethyl Methacrylate (97-63-2)

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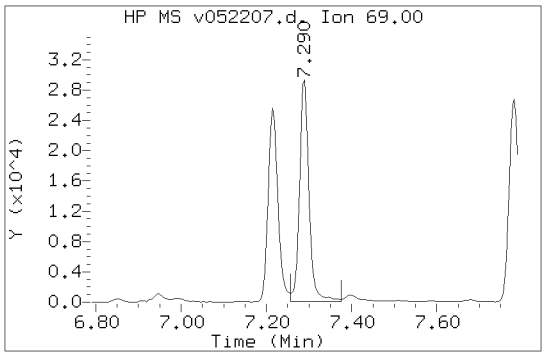
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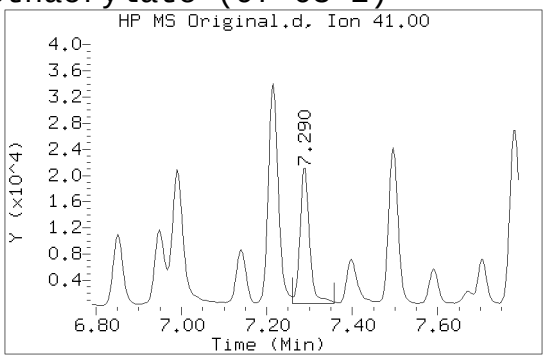


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Ethyl Methacrylate (97-63-2)

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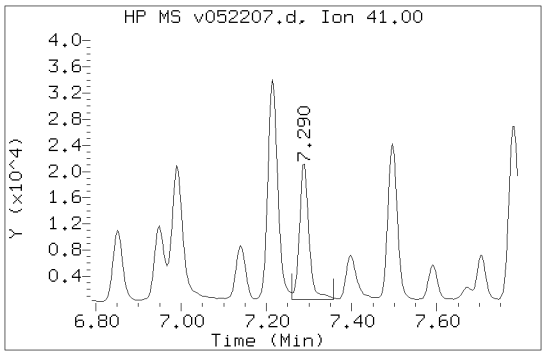
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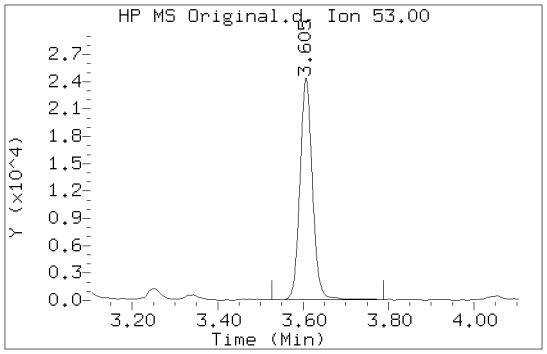
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Chloroprene (126-99-8)

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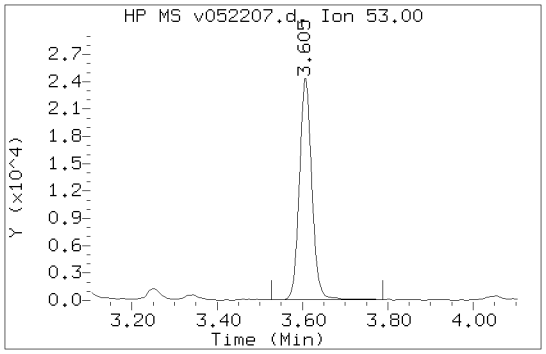
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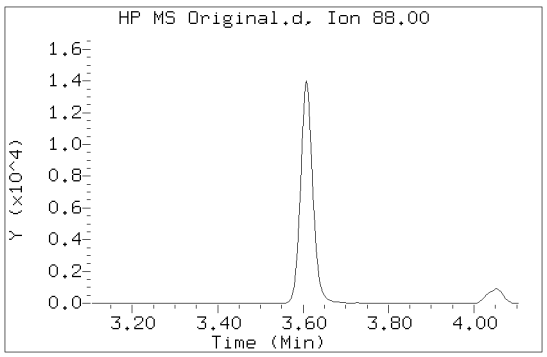
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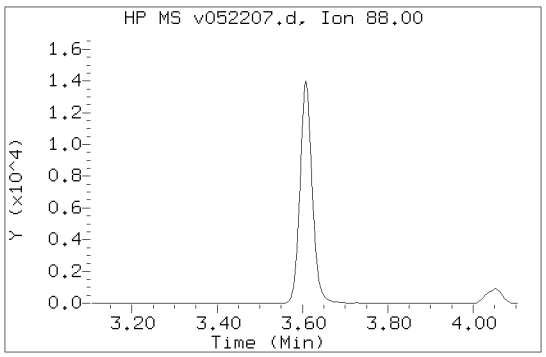
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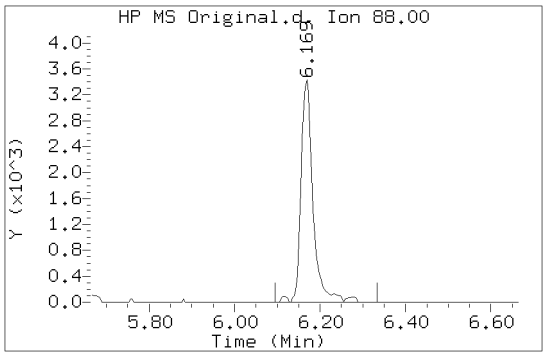


1,4-Dioxane ()

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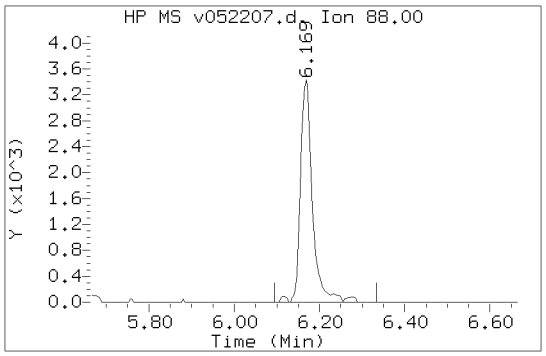
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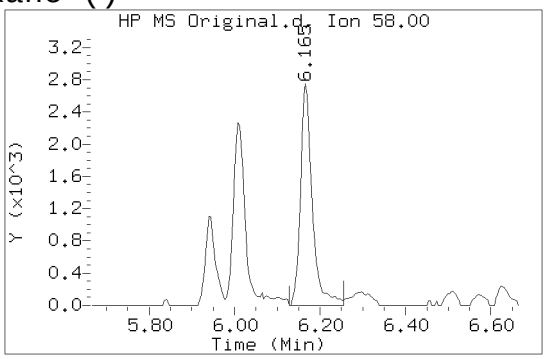
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InstruID : VOA9.i
LabSampID : VSTD020

1,4-Dioxane ()

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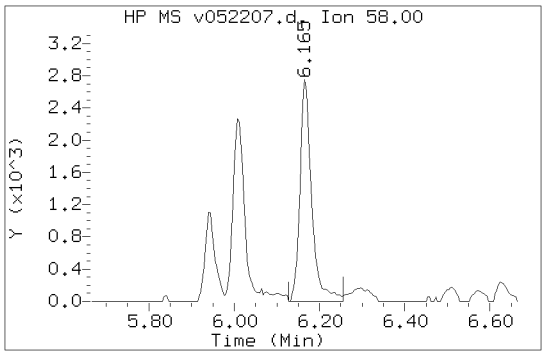
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AFTER

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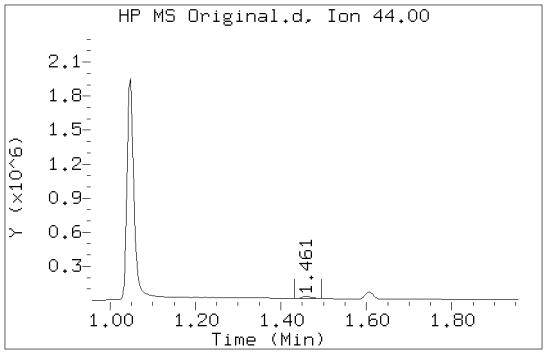


Acetaldehyde (75-07-0)

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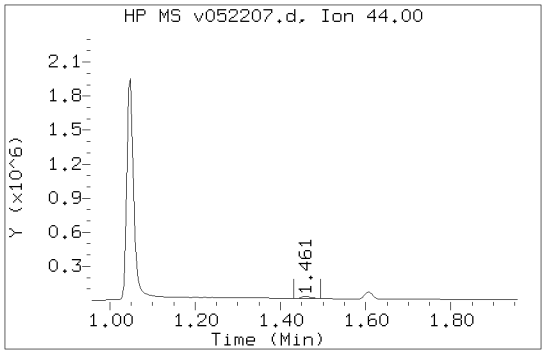
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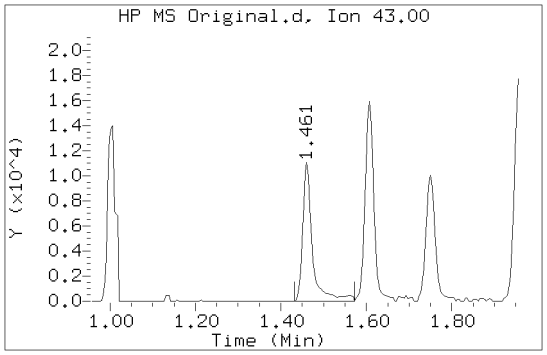
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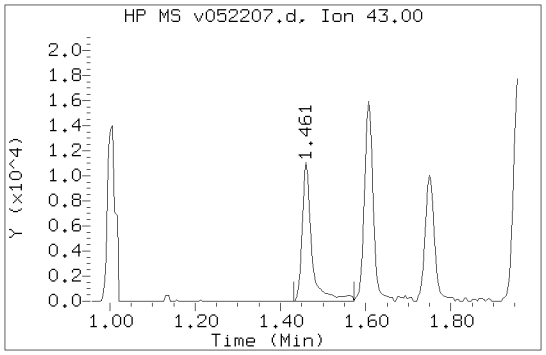
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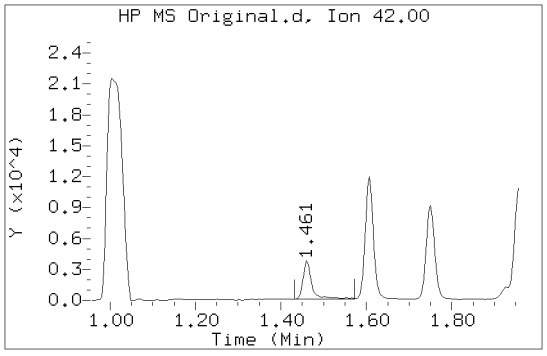
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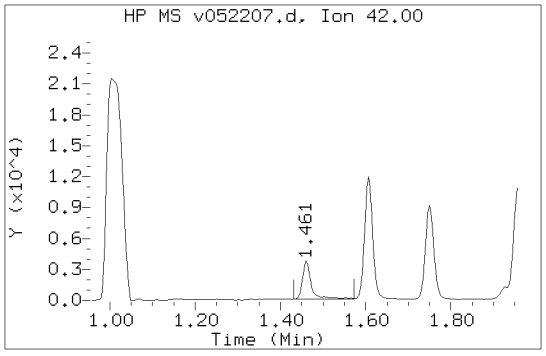
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AFTER

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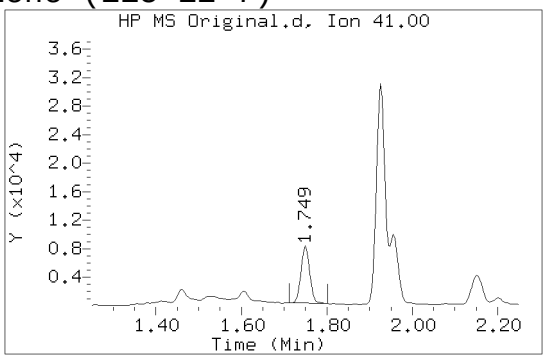


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InstruID : VOA9.i
LabSampID : VSTD020

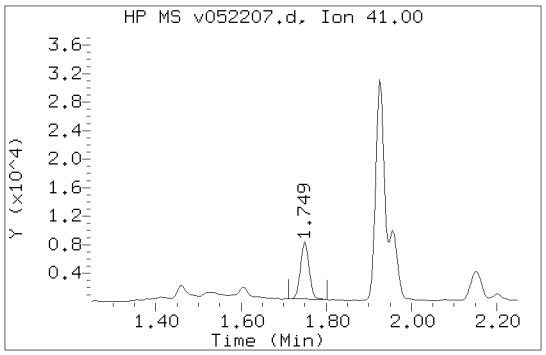
Isobutylene (115-11-7)

Reason Code:

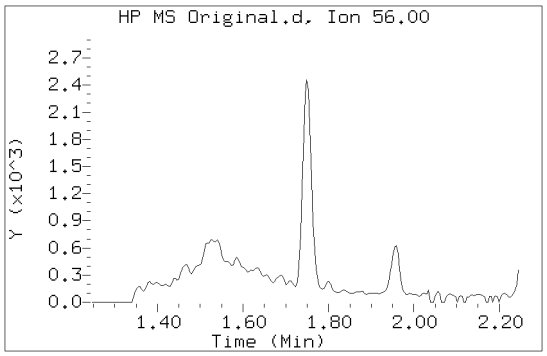
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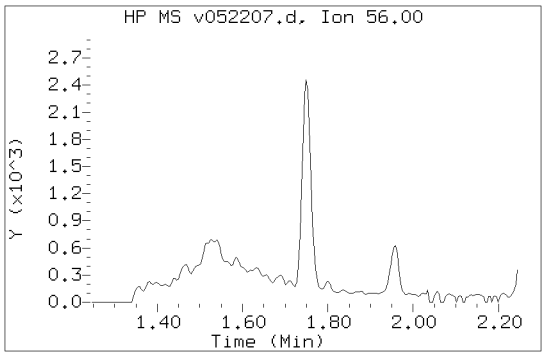
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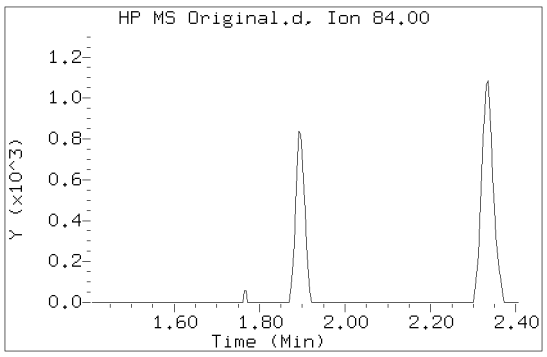
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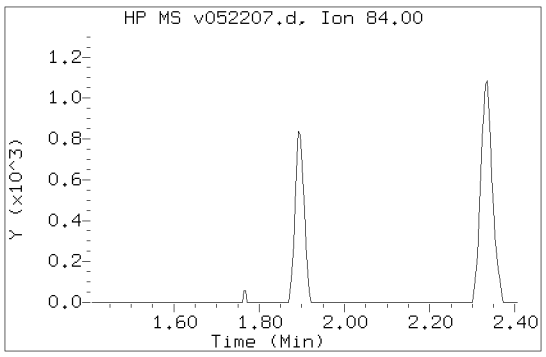
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BEFORE
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firat
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AFTER
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23-May-2024
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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052208.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052208.D
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Inj Date : 22-MAY-2024 22:31
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
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Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 22:10 Cal File: V052207.D
Als bottle: 35 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	236594	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	59029	50.0000	46.76(M)
3	Chloromethane	50	1.299	1.299	(0.270)	201352	50.0000	27.42
4	Propionitrile	54	4.336	4.336	(0.900)	125590	500.000	420.11
5	Vinyl Chloride	62	1.378	1.378	(0.286)	95440	50.0000	44.54
6	Bromomethane	94	1.618	1.618	(0.336)	32231	50.0000	27.51
7	Chloroethane	64	1.700	1.700	(0.353)	64350	50.0000	43.48
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	113583	50.0000	46.44
9	Acrolein	56	2.266	2.266	(0.471)	9239	100.000	75.04
10	Acetone	43	2.409	2.409	(0.500)	74341	100.000	87.05
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	64498	50.0000	43.31
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	249577	1000.00	874.09
13	Acetonitrile	39	2.671	2.671	(0.555)	86871	500.000	444.57
14	Allyl Chloride	41	2.675	2.675	(0.556)	214149	50.0000	42.57
15	Iodomethane	142	2.469	2.469	(0.513)	25516	100.000	57.52
16	Acrylonitrile	53	3.068	3.068	(0.637)	61198	100.000	81.68
17	Methylene Chloride	84	2.795	2.795	(0.580)	83846	50.0000	28.64
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	203281	50.0000	42.83
19	Carbon Disulfide	76	2.521	2.521	(0.524)	408623	100.000	90.67
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	73673	50.0000	43.17

21 Vinyl Acetate	43	4.339	4.339 (0.901)	96737	100.000	82.68
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	141547	50.0000	41.74

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	115753	50.0000	44.37(M)
	24 2-Butanone	43	4.264	4.264	(0.886)	96203	100.000	87.23
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	54977	50.0000	44.13(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	93753	50.0000	44.91
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	88190	50.0000	43.06
	28 Chloroform	83	4.572	4.572	(0.949)	146139	50.0000	42.90
	29 Bromochloromethane	128	4.470	4.470	(0.928)	43607	50.0000	43.21
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	76667	50.0000	44.62
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	114556	50.0000	48.04
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	108766	50.0000	45.07
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	116826	50.0000	43.59
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	91306	50.0000	46.56
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	92816	50.0000	43.01
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	341655	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	340081	50.0000	43.59
	38 Trichloroethene	130	5.786	5.786	(1.043)	86167	50.0000	45.50
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	99254	50.0000	47.71
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	29014	50.0000	39.22
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	68317	100.000	102.83
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	92414	50.0000	42.69
	43 2-Nitropropane	43	6.506	6.506	(1.351)	17807	50.0000	43.86(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	53648	50.0000	45.53
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	195280	100.000	92.29
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	120791	50.0000	50.34
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	306747	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	283574	50.0000	45.51
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	117493	50.0000	46.61(M)
	50 Toluene	91	6.978	6.978	(0.853)	351915	50.0000	45.39
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	97757	50.0000	52.21
	52 2-Hexanone	43	7.589	7.589	(0.928)	128281	100.000	90.53
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	66596	50.0000	43.50
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	144932	50.0000	45.02
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	77857	50.0000	51.78
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	68312	50.0000	46.74
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	78506	50.0000	47.85
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	71175	50.0000	26.00
	59 Chlorobenzene	112	8.208	8.208	(1.003)	224627	50.0000	42.56
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	77170	50.0000	48.22
	61 Ethylbenzene	106	8.305	8.305	(1.015)	114025	50.0000	45.88
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	289961	100.000	95.02
	63 o-Xylene	106	8.744	8.744	(1.069)	143189	50.0000	47.94
	64 Styrene	104	8.759	8.759	(1.071)	247125	50.0000	48.77
	66 Bromoform	173	8.916	8.916	(1.090)	47869	50.0000	51.13
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	357215	50.0000	48.22
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	108865	50.0000	42.50
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	106600	50.0000	44.82
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	166868	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	110579	50.0000	43.28
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	23825	50.0000	43.51
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	419609	50.0000	48.68
	74 Bromobenzene	156	9.314	9.314	(0.916)	97663	50.0000	44.50
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	294254	50.0000	49.47

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	255439	50.0000	45.74
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	296111	50.0000	46.55

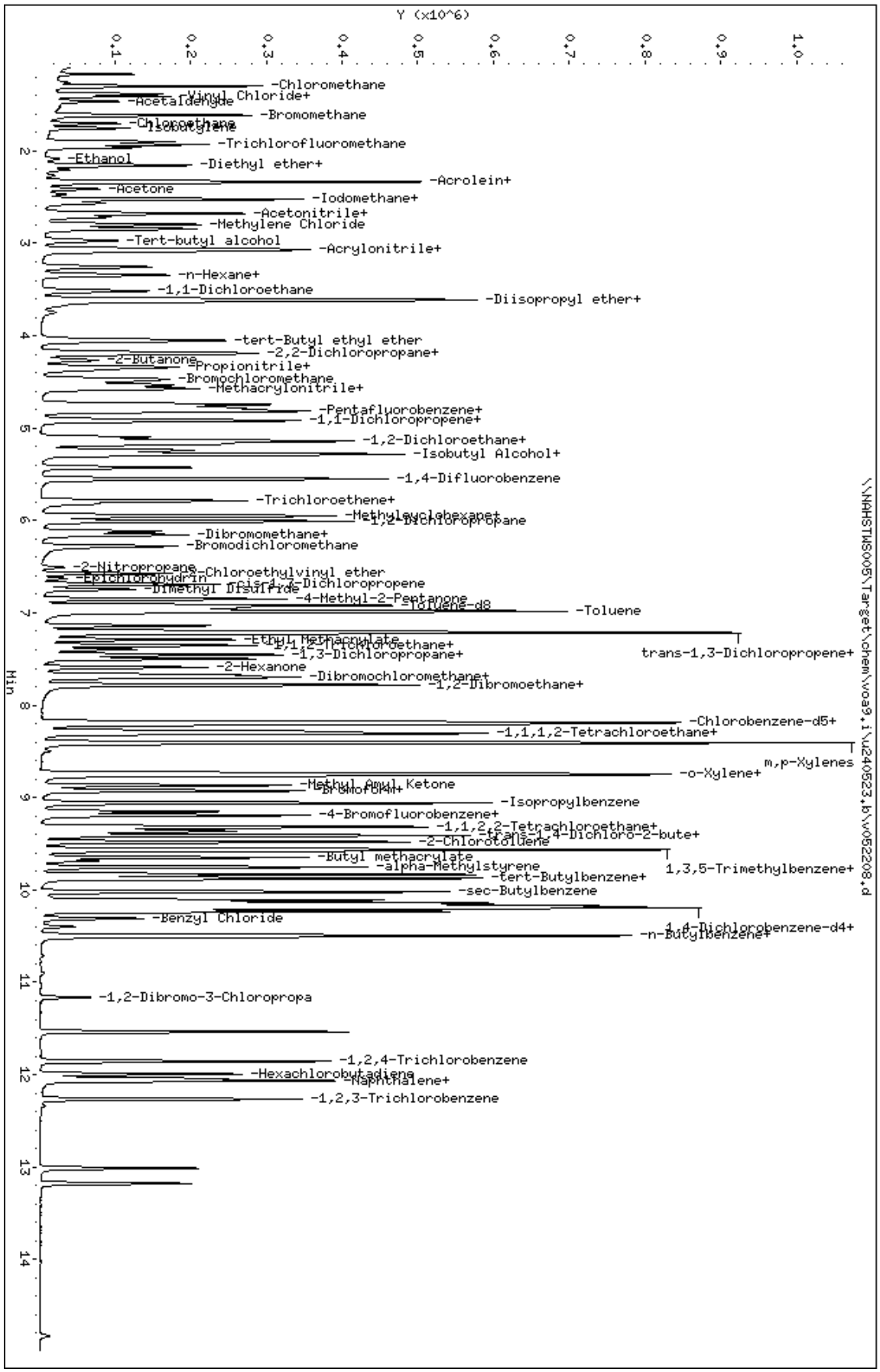
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	254668	50.0000	48.81
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	289810	50.0000	47.49
81	sec-Butylbenzene	105	10.019	10.019	(0.985)	340659	50.0000	49.13
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	303056	50.0000	50.20
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	173337	50.0000	43.93(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	180977	50.0000	41.08
86	Benzyl Chloride	91	10.307	10.307	(1.260)	89212	50.0000	26.62
87	n-Butylbenzene	91	10.491	10.491	(1.032)	268963	50.0000	45.90
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	173036	50.0000	43.31
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	13422	50.0000	47.49
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	115032	50.0000	45.92
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	49023	50.0000	44.53
92	Naphthalene	128	12.065	12.065	(1.187)	270352	50.0000	50.87
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	106158	50.0000	45.51
146	Methyl acetate	43	2.716	2.716	(0.564)	89430	50.0000	37.92
138	Freon TF	101	2.337	2.337	(0.485)	123931	50.0000	48.64
141	Cyclohexane	56	4.785	4.785	(0.994)	125569	50.0000	29.28
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	31799	100.000	70.95
147	Methylcyclohexane	55	5.944	5.944	(1.071)	201212	50.0000	49.05
135	1,4-Dioxane	88	6.165	6.165	(1.280)	16410	1000.00	612.53(M)
132	n-Butanol	56	5.820	5.820	(1.209)	39842	1000.00	894.06
136	n-Hexane	57	3.342	3.342	(0.694)	81645	50.0000	44.12
139	Diethyl ether	59	2.146	2.146	(0.446)	56732	50.0000	43.27
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	110717	1000.00	786.83
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	91636	1000.00	807.96
152	Amyl alcohol	42	7.394	7.394	(0.904)	45025	1000.00	836.77
156	Diisopropyl ether	45	3.623	3.623	(0.752)	270843	50.0000	43.62
162	Butyl acrylate	55	8.729	8.729	(1.067)	146428	50.0000	45.13
187	n-Amyl acetate	43	8.928	8.928	(1.091)	146447	50.0000	42.19
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	365706	50.0000	42.33
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	276950	50.0000	48.95
167	Ethanol	45	2.086	2.086	(0.433)	17713	1000.00	765.25
172	tert-Butyl formate	59	5.239	5.239	(1.088)	98001	100.000	71.93
173	3,3-Dimethyl-1-butanol	57	7.781	7.781	(0.951)	172267	1000.00	849.73
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	234456	50.0000	44.80
175	tert-Butyl ethyl ether	59	4.051	4.051	(0.841)	235572	50.0000	44.78
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	98001	1000.00	722.78
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.300)	494612	1000.00	968.10
140	1,3-Butadiene	54	1.404	1.404	(0.292)	42015	50.0000	44.94
182	Epichlorohydrin	57	6.630	6.630	(1.195)	23006	200.000	185.00
M 94	1,2-Dichloroethylene (total)	96				161863	100.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	121144	50.0000	49.55
130	Ethyl Acetate	43	4.339	4.339	(0.901)	96737	50.0000	41.89
131	Methyl Acrylate	55	4.369	4.369	(0.907)	100487	50.0000	44.32
189	n-Butyl acetate	43	7.702	7.702	(0.941)	141944	50.0000	44.88
134	Cyclohexanone	55	9.149	9.149	(0.900)	91643	1000.00	949.97
185	Isoprene	39	2.158	2.158	(0.448)	19695	50.0000	48.97
188	Isopropyl acetate	43	5.284	5.284	(0.952)	246529	50.0000	43.08
150	Allyl alcohol	57	3.342	3.342	(0.694)	81645	1000.00	882.59
194	Acetaldehyde	44	1.464	1.464	(0.304)	60209	200.000	188.79(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	183664	50.0000	47.75
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	47587	50.0000	49.09

202 Isobutylene	41	1.753	1.753 (0.364)	28123	50.0000	52.00(M)
133 Ethyl Acrylate	55	5.944	5.944 (1.234)	201212	50.0000	48.23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	101384	50.0000	44.65
159 Propylene oxide	43	2.203	2.203	(0.457)	12428	100.000	69.44
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	82852	50.0000	51.11

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



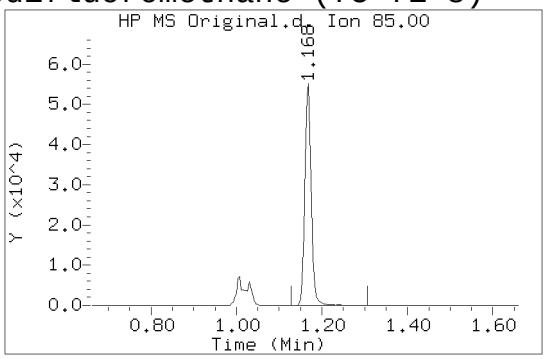
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Date : 22-MAY-2024 22:31
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052208.d
Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

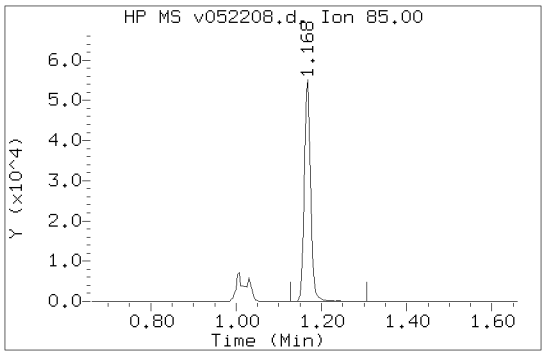
Dichlorodifluoromethane (75-71-8)

BEFORE
MASS
85
AREA
59029
HEIGHT
55136
23-May-2024
09:51
firat
tastan

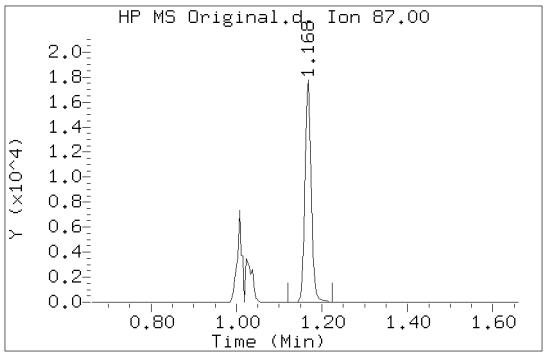


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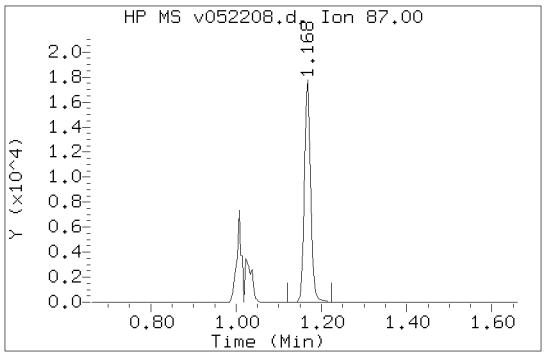
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HEIGHT
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23-May-2024
09:51
firat
tastan



BEFORE
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87
AREA
18757
HEIGHT
17768
23-May-2024
09:51
firat
tastan

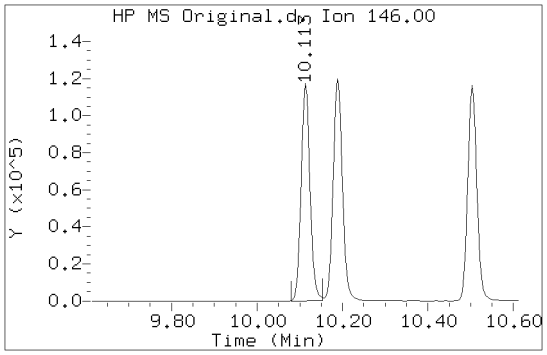


AFTER
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HEIGHT
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23-May-2024
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firat
tastan



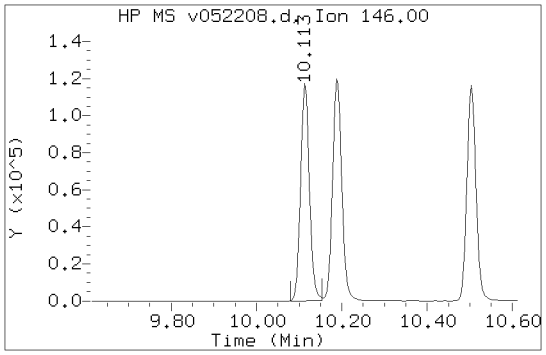
1,3-Dichlorobenzene (541-73-1)

BEFORE
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AREA
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HEIGHT
117583
23-May-2024
09:51
firat
tastan

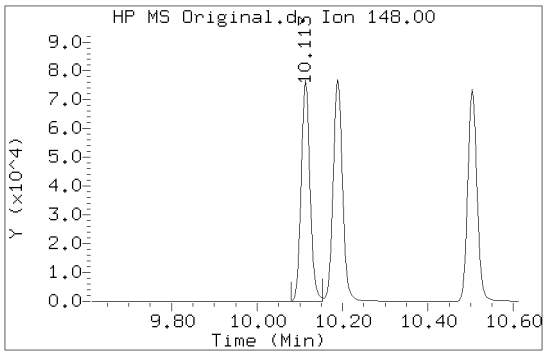


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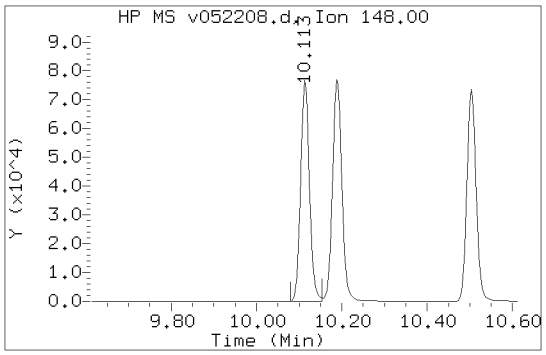
AFTER
MASS
146
AREA
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HEIGHT
117583
23-May-2024
09:51
firat
tastan



BEFORE
MASS
148
AREA
112515
HEIGHT
76709
23-May-2024
09:51
firat
tastan



AFTER
MASS
148
AREA
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HEIGHT
76709
23-May-2024
09:51
firat
tastan

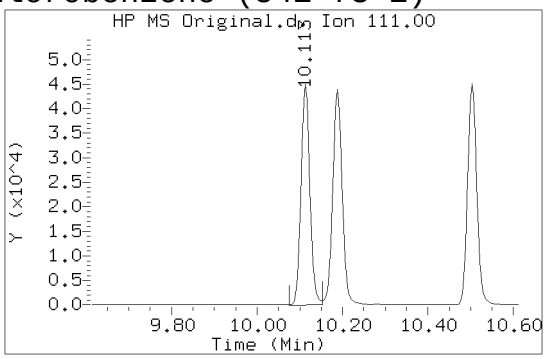


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Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

1,3-Dichlorobenzene (541-73-1)

BEFORE

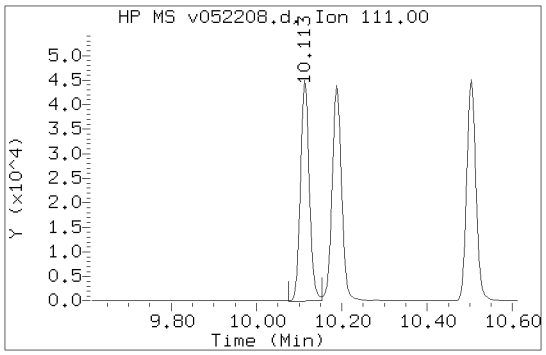
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AREA
66381
HEIGHT
45036
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

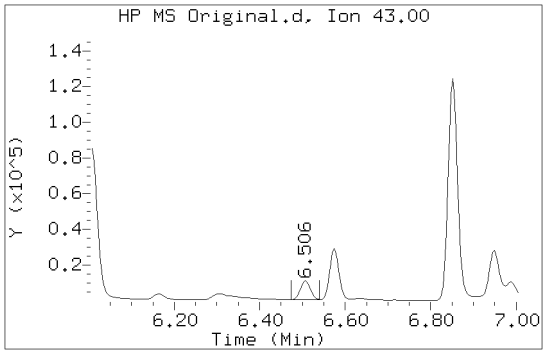
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HEIGHT
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23-May-2024
09:51
firat
tastan



2-Nitropropane (79-46-9)

BEFORE

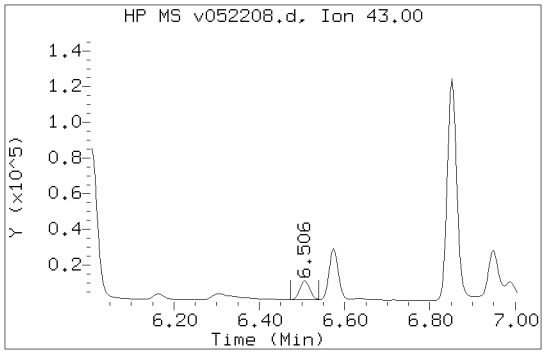
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AREA
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HEIGHT
10781
23-May-2024
09:51
firat
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Reason Code:

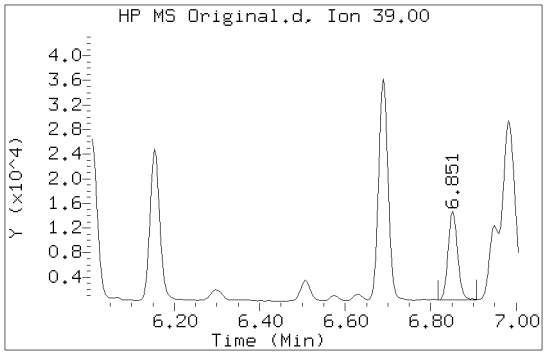
AFTER

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HEIGHT
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23-May-2024
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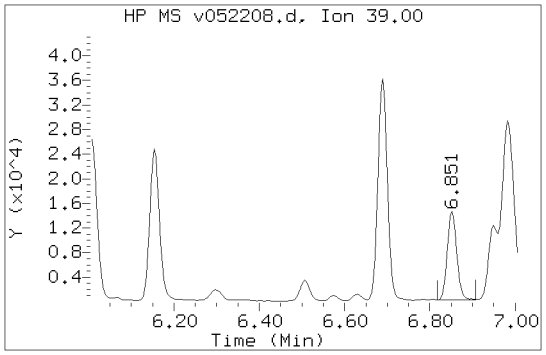
BEFORE

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14460
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09:51
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AFTER

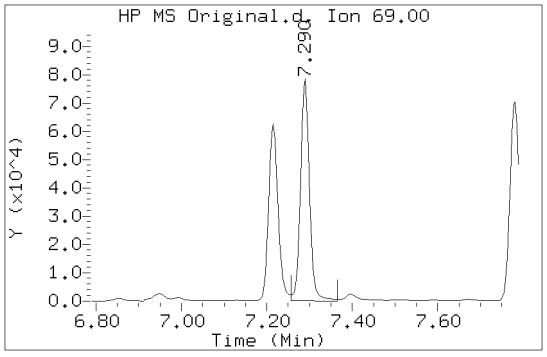
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HEIGHT
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09:51
firat
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Ethyl Methacrylate (97-63-2)

BEFORE

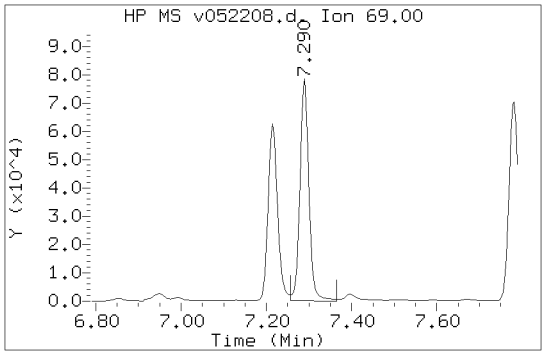
MASS
69
AREA
117493
HEIGHT
78401
23-May-2024
09:51
firat
tastan



Reason Code:

AFTER

MASS
69
AREA
117493
HEIGHT
78401
23-May-2024
09:51
firat
tastan



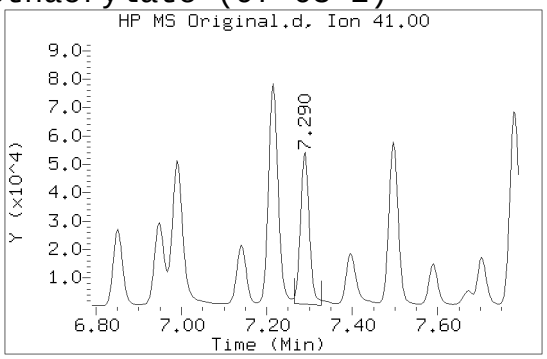
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Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Methacrylate (97-63-2)

Reason Code:

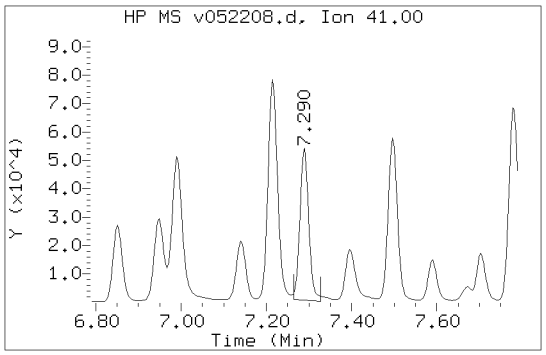
BEFORE

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AREA
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HEIGHT
53563
23-May-2024
09:51
firat
tastan



AFTER

MASS
41
AREA
79597
HEIGHT
53563
23-May-2024
09:51
firat
tastan

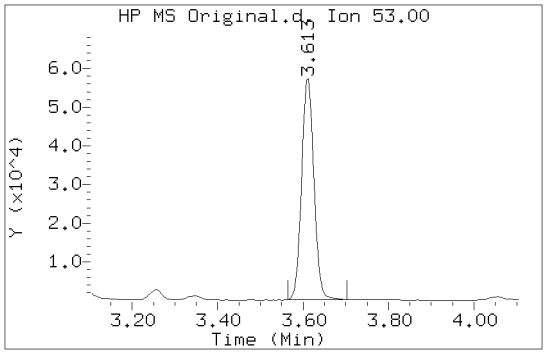


Chloroprene (126-99-8)

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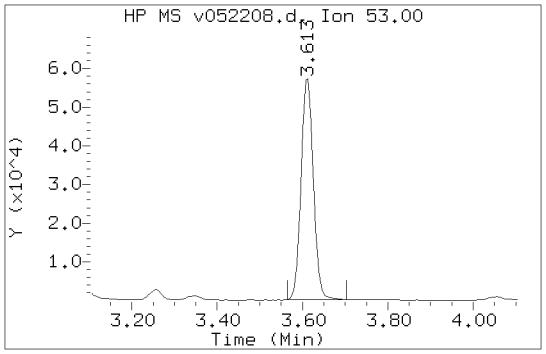
BEFORE

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AREA
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HEIGHT
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23-May-2024
09:51
firat
tastan



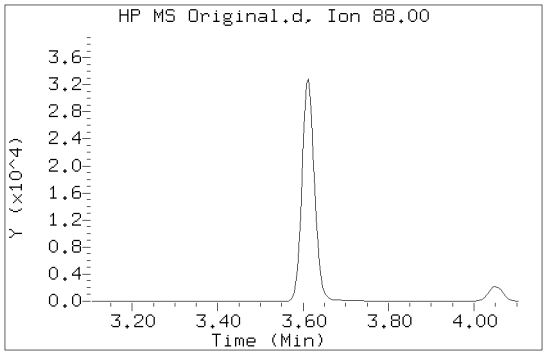
AFTER

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23-May-2024
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firat
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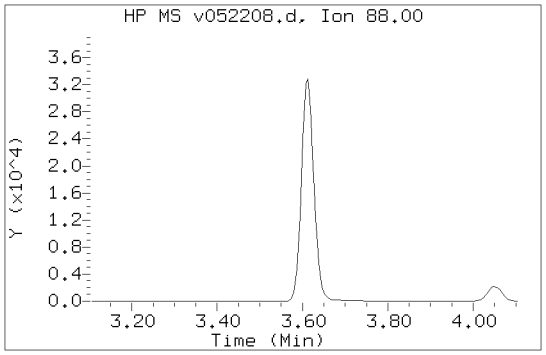
BEFORE

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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
23-May-2024
09:51
firat
tastan

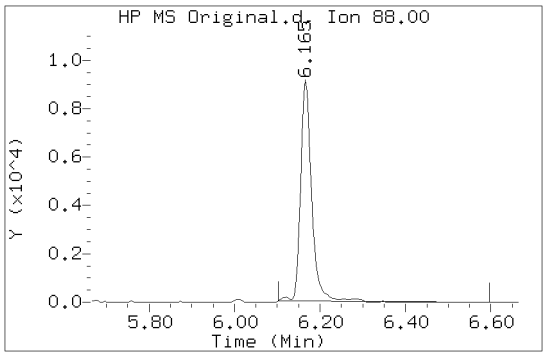


1,4-Dioxane ()

Reason Code:

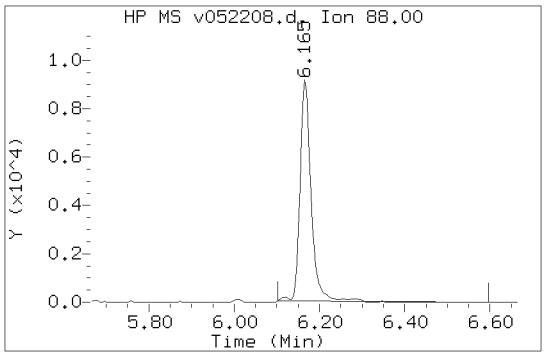
BEFORE

MASS
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AREA
16410
HEIGHT
9132
23-May-2024
09:51
firat
tastan



AFTER

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16410
HEIGHT
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23-May-2024
09:51
firat
tastan



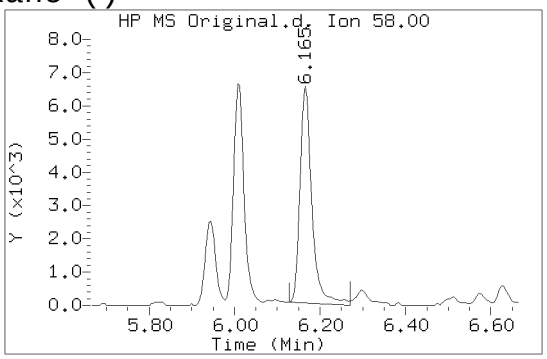
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Inj Date : 22-MAY-2024 22:31
InstruID : VOA9.i
LabSampID : VSTD050

1,4-Dioxane ()

Reason Code:

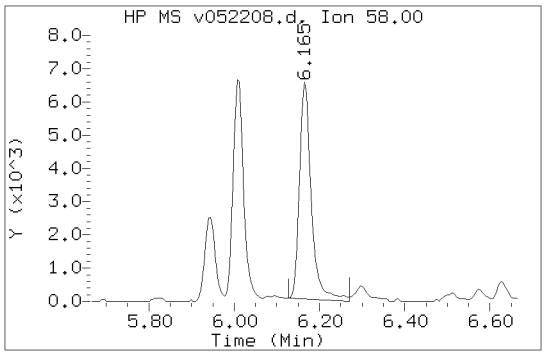
BEFORE

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AREA
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HEIGHT
6530
23-May-2024
09:51
firat
tastan



AFTER

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HEIGHT
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23-May-2024
09:51
firat
tastan

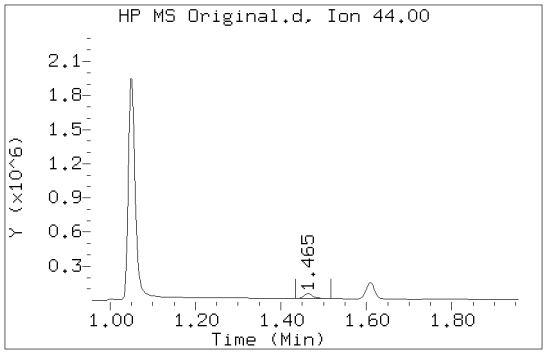


Acetaldehyde (75-07-0)

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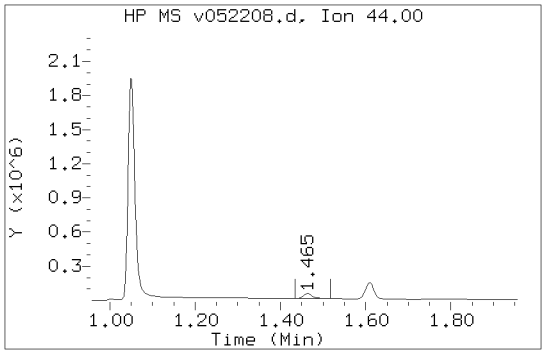
BEFORE

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HEIGHT
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23-May-2024
09:51
firat
tastan



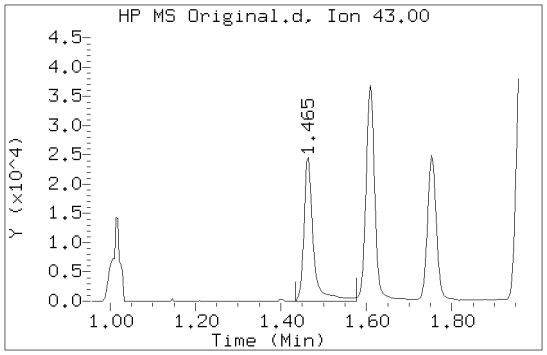
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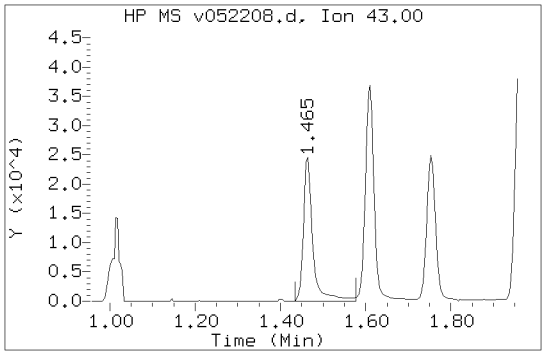
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HEIGHT
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23-May-2024
09:51
firat
tastan



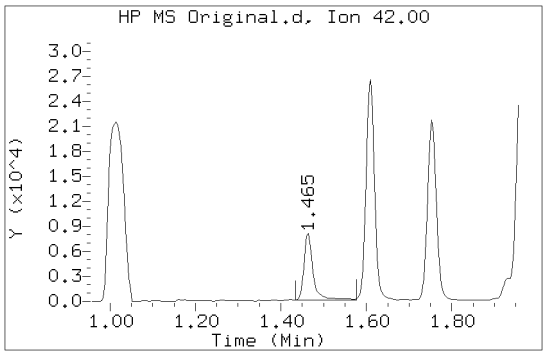
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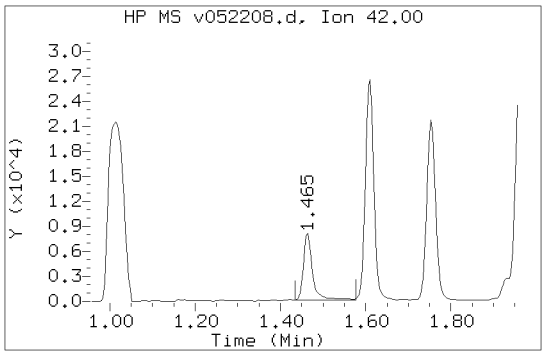
BEFORE

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23-May-2024
09:51
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AFTER

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23-May-2024
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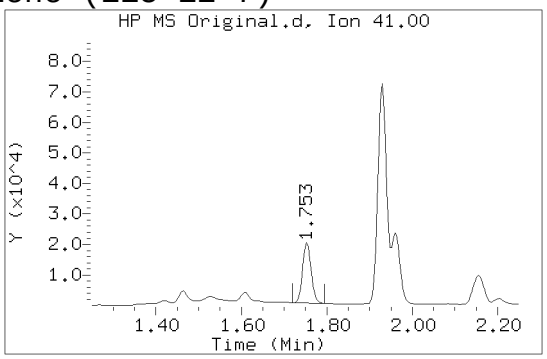


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Inj Date : 22-MAY-2024 22:31
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LabSampID : VSTD050

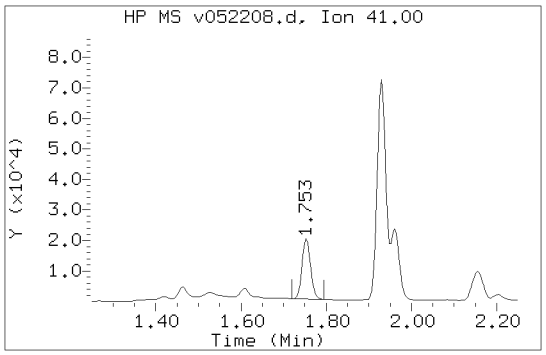
Isobutylene (115-11-7)

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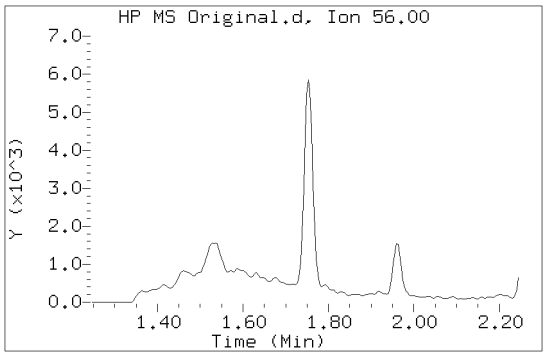
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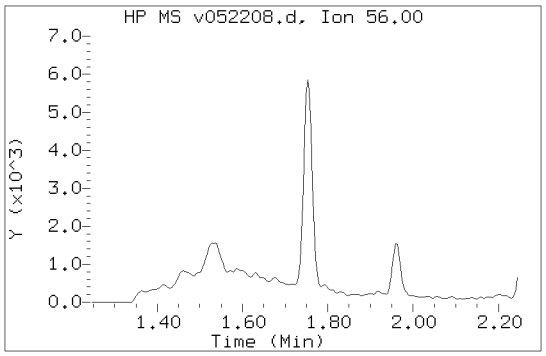
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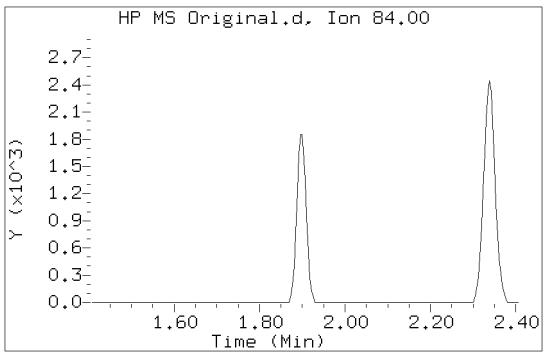
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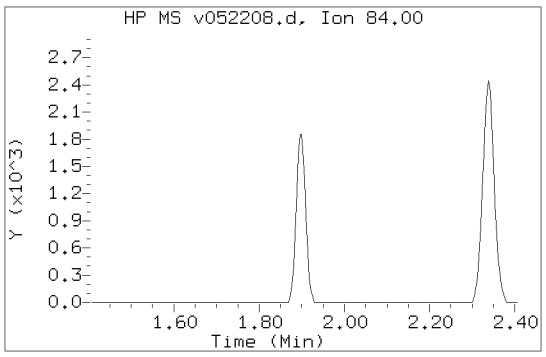
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Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052209.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052209.D
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Operator : FT Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
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Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 22:31 Cal File: V052208.D
Als bottle: 36 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	244638	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	124883	100.000	95.68(M)
3 Chloromethane	50	1.291	1.291	(0.268)	415448	100.000	54.71
4 Propionitrile	54	4.335	4.335	(0.901)	247974	1000.00	802.23
5 Vinyl Chloride	62	1.374	1.374	(0.286)	205327	100.000	92.67
6 Bromomethane	94	1.606	1.606	(0.334)	65774	100.000	54.29
7 Chloroethane	64	1.692	1.692	(0.352)	137646	100.000	89.95
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	242118	100.000	95.75
9 Acrolein	56	2.258	2.258	(0.469)	16522	200.000	129.79
10 Acetone	43	2.405	2.405	(0.500)	142776	200.000	161.70
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	140549	100.000	91.28
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	519730	2000.00	1760.39
13 Acetonitrile	39	2.667	2.667	(0.554)	175761	1000.00	869.90
14 Allyl Chloride	41	2.667	2.667	(0.554)	428574	100.000	82.39
15 Iodomethane	142	2.461	2.461	(0.512)	74208	200.000	161.79
16 Acrylonitrile	53	3.061	3.061	(0.636)	120448	200.000	155.48
17 Methylene Chloride	84	2.791	2.791	(0.580)	174302	100.000	57.59
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	403076	100.000	82.14
19 Carbon Disulfide	76	2.517	2.517	(0.523)	880167	200.000	188.89
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	155751	100.000	88.26

21 Vinyl Acetate	43	4.335	4.335 (0.901)	197614	200.000	163.36
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	296135	100.000	84.45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.604	3.604	(0.749)	249311	100.000	92.43(M)
24	2-Butanone	43	4.260	4.260	(0.885)	197983	200.000	173.62
25	Methacrylonitrile	41	4.489	4.489	(0.933)	114272	100.000	88.72(a)
26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	208299	100.000	96.51
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	185945	100.000	87.81
28	Chloroform	83	4.568	4.568	(0.949)	305959	100.000	86.87
29	Bromochloromethane	128	4.466	4.466	(0.928)	90371	100.000	86.61
$ 30	Dibromofluoromethane	113	4.744	4.744	(0.986)	155928	100.000	87.77
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	245190	100.000	99.44
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	232450	100.000	93.19
33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	238700	100.000	86.16
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	204530	100.000	100.90
$ 35	1,2-Dichloroethane-d4	65	5.092	5.092	(1.058)	186459	100.000	83.56
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	353172	50.0000	
37	Benzene	78	5.137	5.137	(0.926)	712365	100.000	88.33
38	Trichloroethene	130	5.786	5.786	(1.043)	177670	100.000	90.75
39	Bromodichloromethane	83	6.277	6.277	(1.131)	219113	100.000	101.89
40	Methyl Methacrylate	41	5.820	5.820	(1.210)	61390	100.000	80.26
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	152634	200.000	222.25
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	192490	100.000	86.03
43	2-Nitropropane	43	6.506	6.506	(1.352)	39659	100.000	94.47(M)
44	Dibromomethane	93	6.116	6.116	(1.102)	109064	100.000	89.55
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	413580	200.000	187.01
46	cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	270110	100.000	108.90
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	320606	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	582672	100.000	89.46
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	244348	100.000	93.78(M)
50	Toluene	91	6.978	6.978	(0.853)	729405	100.000	90.02
51	trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	223156	100.000	115.30
52	2-Hexanone	43	7.589	7.589	(0.928)	278725	200.000	188.20
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	137987	100.000	86.23
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	297425	100.000	88.39
55	Dibromochloromethane	129	7.690	7.690	(0.940)	173114	100.000	110.17
56	Tetrachloroethene	164	7.454	7.454	(0.911)	141354	100.000	92.54
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	161828	100.000	94.37
58	1-Chlorohexane	55	8.193	8.193	(1.476)	154985	100.000	54.78
59	Chlorobenzene	112	8.208	8.208	(1.003)	465190	100.000	84.33
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	165486	100.000	98.93
61	Ethylbenzene	106	8.305	8.305	(1.015)	238607	100.000	91.87
62	m,p-Xylenes	106	8.406	8.406	(1.027)	602773	200.000	189.00
63	o-Xylene	106	8.744	8.744	(1.069)	294378	100.000	94.30
64	Styrene	104	8.759	8.759	(1.071)	516455	100.000	97.53
66	Bromoform	173	8.916	8.916	(1.090)	111672	100.000	114.13
67	Isopropylbenzene	105	9.059	9.059	(1.107)	752303	100.000	97.18
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	229364	100.000	86.30
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	213520	100.000	85.89
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	173149	50.0000	
71	1,2,3-Trichloropropane	75	9.358	9.358	(0.920)	238259	100.000	89.87
72	trans-1,4-Dichloro-2-butene	53	9.373	9.373	(1.146)	51909	100.000	90.70
73	n-Propylbenzene	91	9.411	9.411	(0.926)	878233	100.000	98.20
74	Bromobenzene	156	9.314	9.314	(0.916)	202370	100.000	88.86
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	623339	100.000	100.99

76	2-Chlorotoluene	91	9.478	9.478 (0.932)	530900	100.000	91.61
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	608997	100.000	92.28

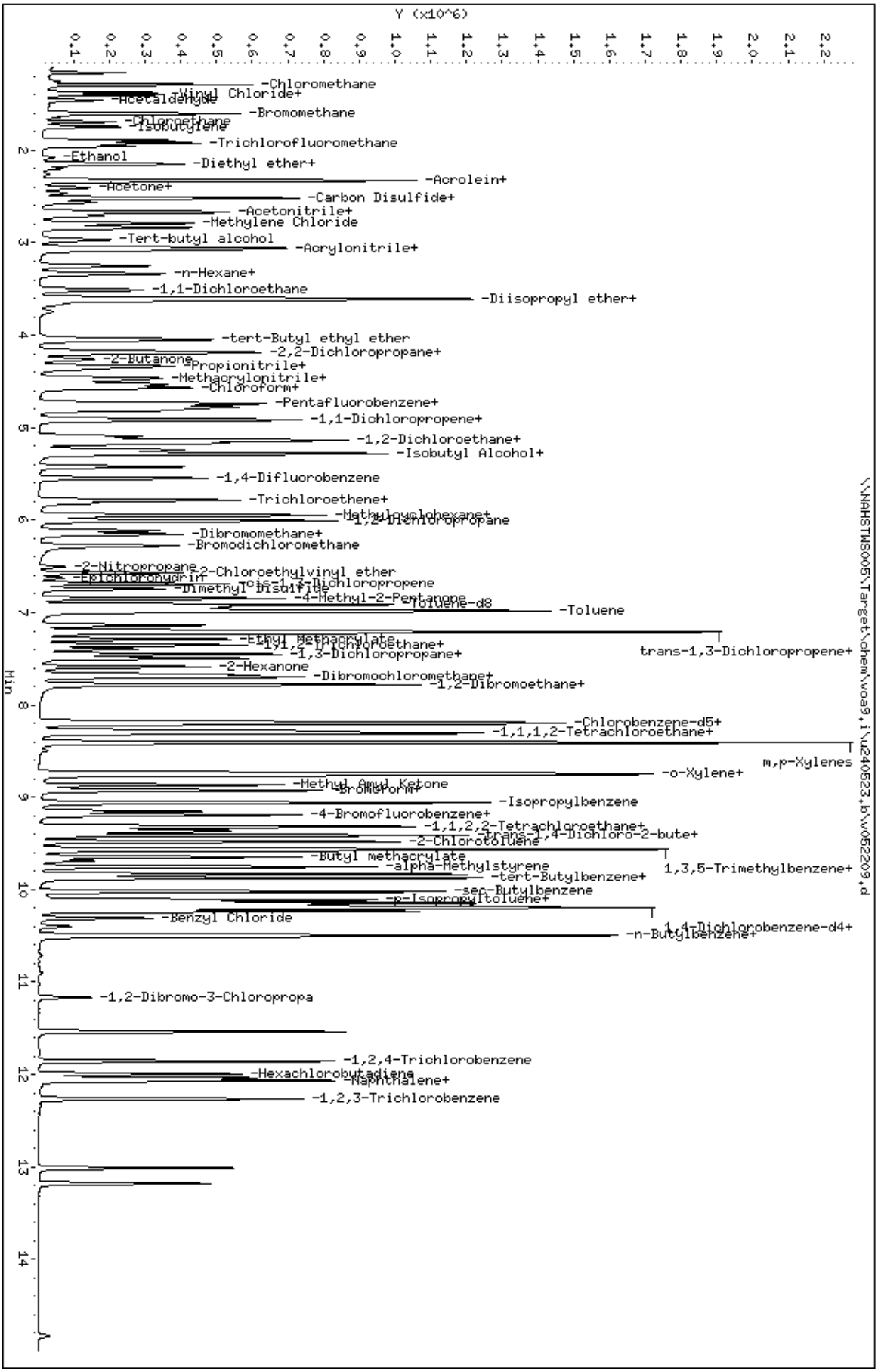
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	527600	100.000	97.45
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	610547	100.000	96.43
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	724626	100.000	100.72
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	643268	100.000	102.69
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	357696	100.000	87.36(M)
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	370133	100.000	80.98
86	Benzyl Chloride	91	10.311	10.311	(1.260)	210396	100.000	60.08
87	n-Butylbenzene	91	10.491	10.491	(1.032)	572951	100.000	94.23
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	351398	100.000	84.76
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	30092	100.000	102.61
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	245972	100.000	94.63
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	104037	100.000	91.09
92	Naphthalene	128	12.065	12.065	(1.187)	569634	100.000	103.31
93	1,2,3-Trichlorobenzene	180	12.267	12.267	(1.206)	222501	100.000	91.92
146	Methyl acetate	43	2.708	2.708	(0.563)	184062	100.000	75.49
138	Freon TF	101	2.330	2.330	(0.484)	259877	100.000	98.65
141	Cyclohexane	56	4.781	4.781	(0.994)	262264	100.000	59.14
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	62998	200.000	135.94
147	Methylcyclohexane	55	5.943	5.943	(1.071)	418747	100.000	98.76
135	1,4-Dioxane	88	6.165	6.165	(1.281)	34583	2000.00	1248.42(M)
132	n-Butanol	56	5.820	5.820	(1.210)	84580	2000.00	1835.59
136	n-Hexane	57	3.338	3.338	(0.694)	173931	100.000	90.92
139	Diethyl ether	59	2.142	2.142	(0.445)	112971	100.000	83.33
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	224546	2000.00	1543.30
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	182354	2000.00	1554.96
152	Amyl alcohol	42	7.394	7.394	(0.904)	96345	2000.00	1713.14
156	Diisopropyl ether	45	3.619	3.619	(0.752)	542852	100.000	84.56
162	Butyl acrylate	55	8.729	8.729	(1.067)	324941	100.000	95.82
187	n-Amyl acetate	43	8.927	8.927	(1.091)	324241	100.000	89.39
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	734991	100.000	81.99
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	551693	100.000	93.97
167	Ethanol	45	2.082	2.082	(0.433)	34812	2000.00	1454.52
172	tert-Butyl formate	59	5.242	5.242	(1.090)	245253	200.000	174.10
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	356876	2000.00	1684.24
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	477690	100.000	88.29
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	479003	100.000	88.07
176	tert-Amyl alcohol	59	5.242	5.242	(1.090)	245253	2000.00	1749.34
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	1060087	2000.00	2007.25
140	1,3-Butadiene	54	1.400	1.400	(0.291)	91939	100.000	95.11
182	Epichlorohydrin	57	6.629	6.629	(1.195)	48090	400.000	374.11
M 94	1,2-Dichloroethylene (total)	96				341696	200.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	257528	100.000	101.52
130	Ethyl Acetate	43	4.335	4.335	(0.901)	197614	100.000	82.77
131	Methyl Acrylate	55	4.365	4.365	(0.907)	201900	100.000	86.12
189	n-Butyl acetate	43	7.702	7.702	(0.941)	313148	100.000	94.73
134	Cyclohexanone	55	9.149	9.149	(0.900)	177267	2000.00	1770.89
185	Isoprene	39	2.154	2.154	(0.448)	41413	100.000	99.58
188	Isopropyl acetate	43	5.280	5.280	(0.951)	520021	100.000	87.92
150	Allyl alcohol	57	3.338	3.338	(0.694)	173931	2000.00	1818.40
194	Acetaldehyde	44	1.456	1.456	(0.303)	116437	400.000	353.10(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	378859	100.000	94.24
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	138053	100.000	136.28

202 Isobutylene	41	1.745	1.745 (0.363)	59172	100.000	105.81(M)
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	418747	100.000	97.08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	184758	100.000	78.43
159 Propylene oxide	43	2.198	2.198	(0.457)	24845	200.000	134.26
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	192225	100.000	114.29

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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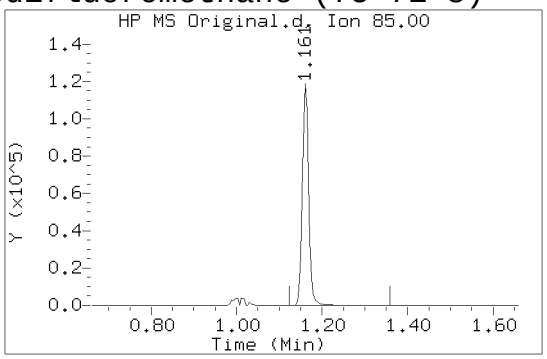
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Operator: FT
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Inj Date : 22-MAY-2024 22:53
InstruID : VOA9.i
LabSampID : VSTD100

Dichlorodifluoromethane (75-71-8)

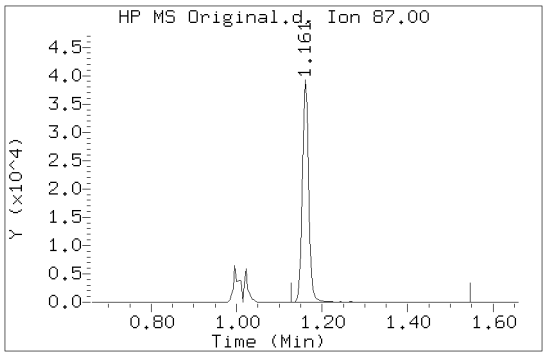
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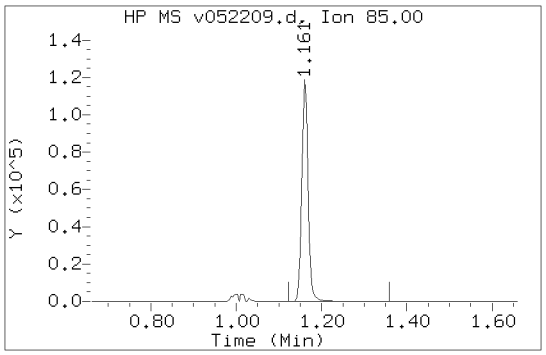
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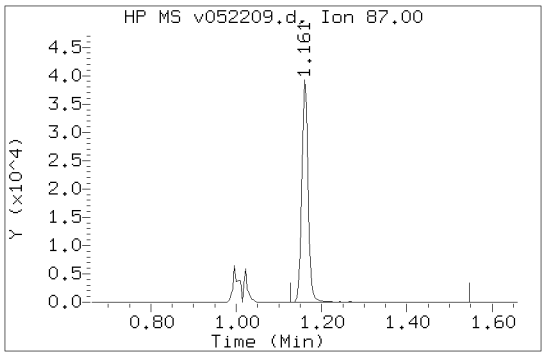
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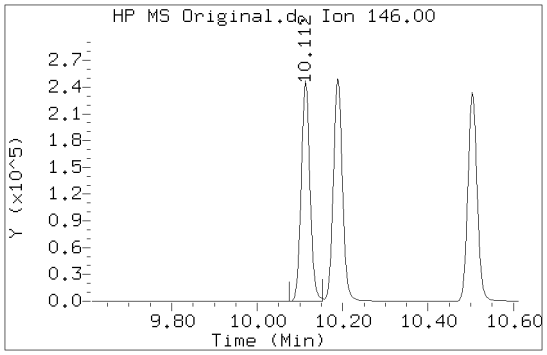
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1,3-Dichlorobenzene (541-73-1)

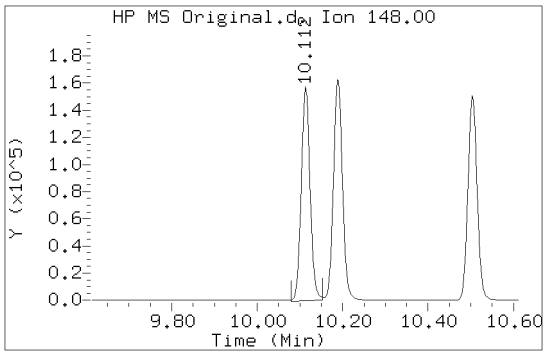
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BEFORE

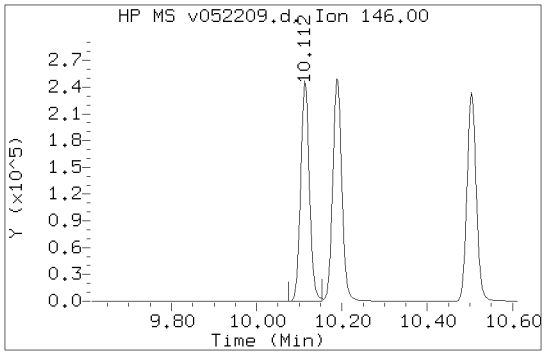
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148
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HEIGHT
157633
23-May-2024
09:51
firat
tastan



Reason Code:

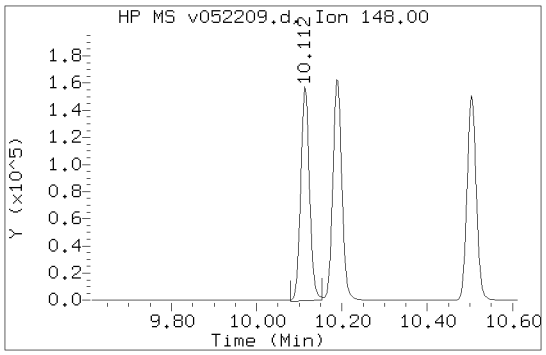
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23-May-2024
09:51
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AFTER

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23-May-2024
09:51
firat
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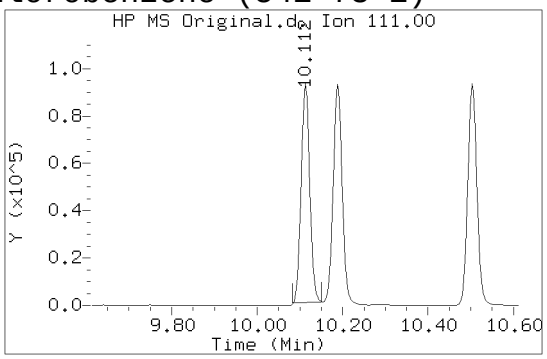
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Inj Date : 22-MAY-2024 22:53
InstruID : VOA9.i
LabSampID : VSTD100

1,3-Dichlorobenzene (541-73-1)

Reason Code:

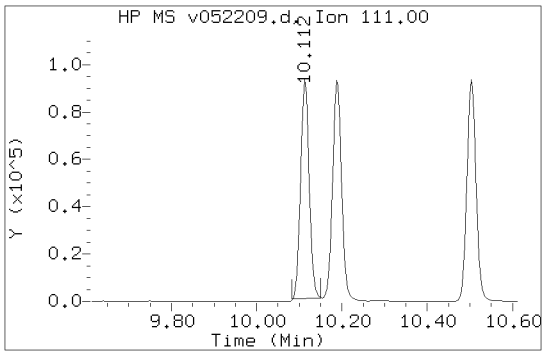
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AFTER

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23-May-2024
09:51
firat
tastan

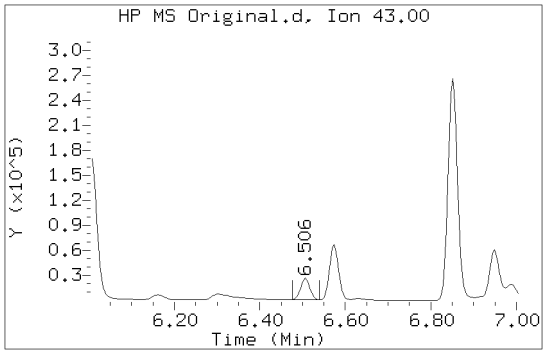


2-Nitropropane (79-46-9)

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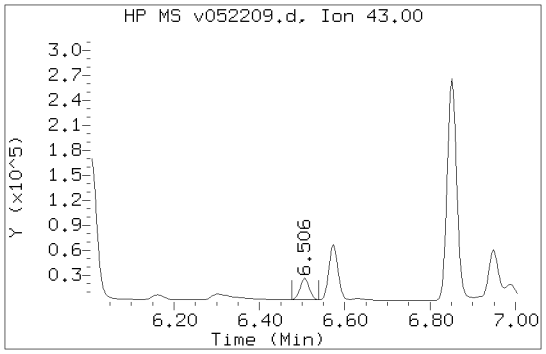
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23-May-2024
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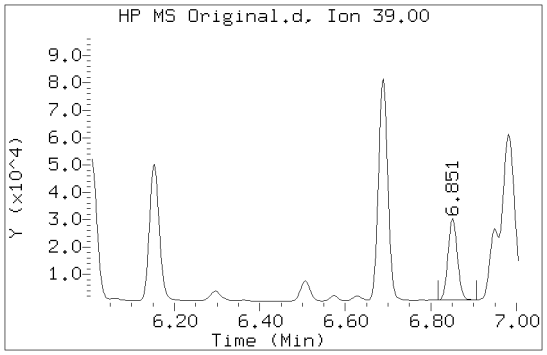
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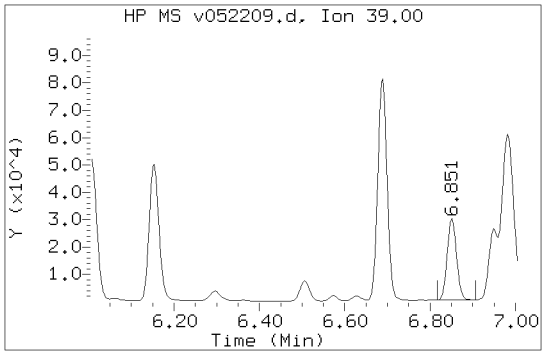
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23-May-2024
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AFTER

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23-May-2024
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firat
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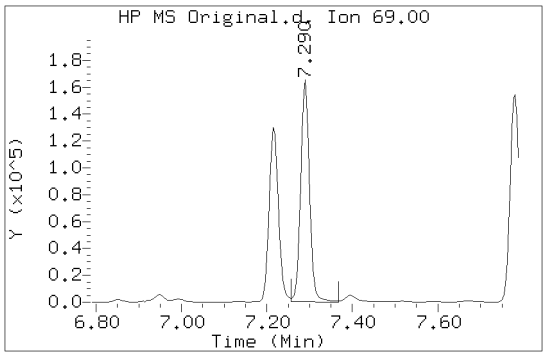


Ethyl Methacrylate (97-63-2)

Reason Code:

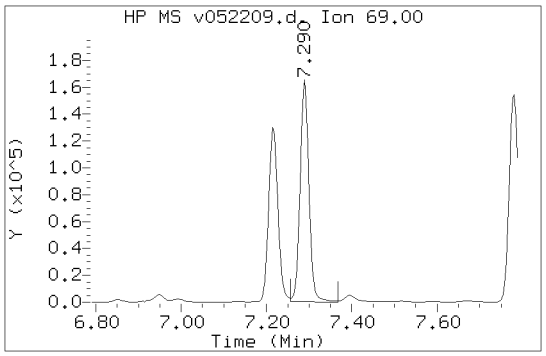
BEFORE

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165161
23-May-2024
09:51
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AFTER

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23-May-2024
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firat
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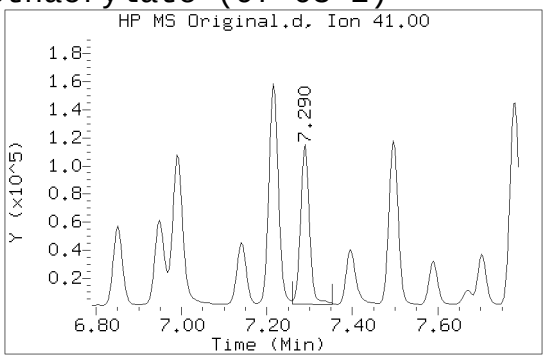
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Inj Date : 22-MAY-2024 22:53
InstruID : VOA9.i
LabSampID : VSTD100

Ethyl Methacrylate (97-63-2)

Reason Code:

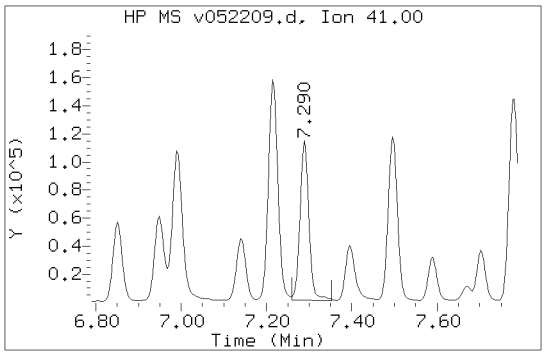
BEFORE

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HEIGHT
113997
23-May-2024
09:51
firat
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AFTER

MASS
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AREA
170285
HEIGHT
113997
23-May-2024
09:51
firat
tastan

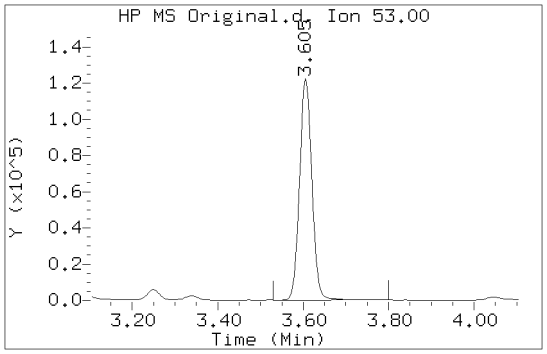


Chloroprene (126-99-8)

Reason Code:

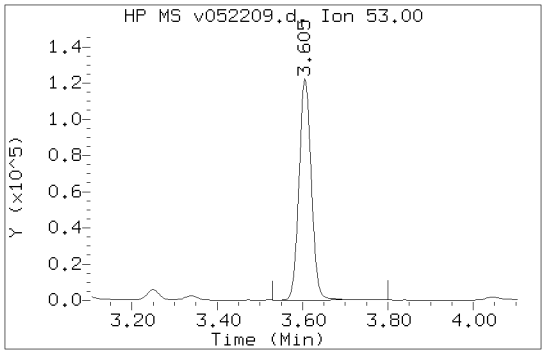
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122244
23-May-2024
09:51
firat
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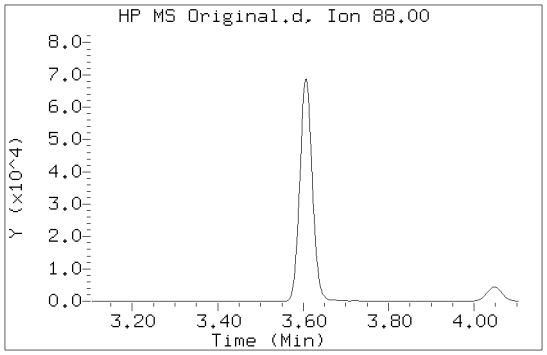
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23-May-2024
09:51
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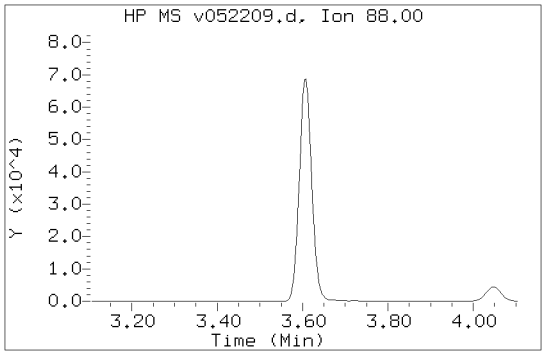
BEFORE

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0
23-May-2024
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AFTER

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23-May-2024
09:51
firat
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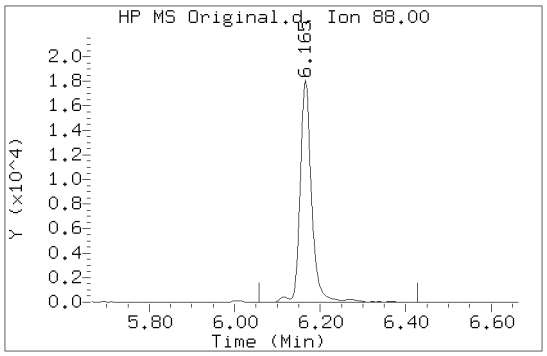


1,4-Dioxane ()

Reason Code:

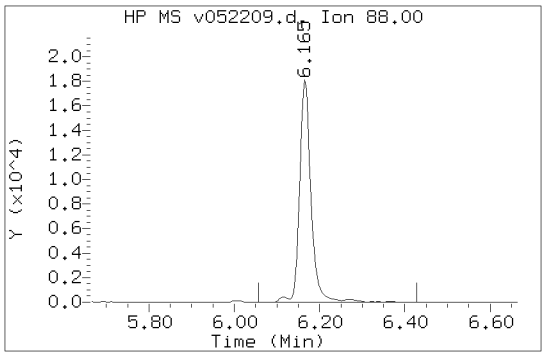
BEFORE

MASS
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34583
HEIGHT
18112
23-May-2024
09:51
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AFTER

MASS
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HEIGHT
18112
23-May-2024
09:51
firat
tastan



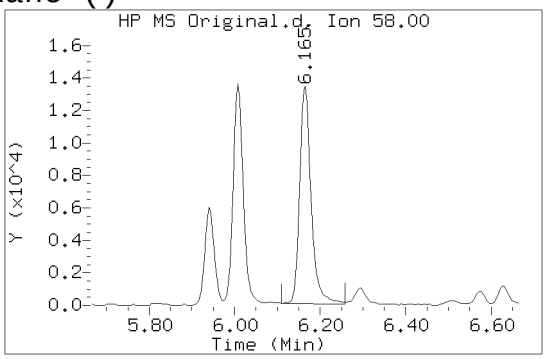
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Inj Date : 22-MAY-2024 22:53
InstruID : VOA9.i
LabSampID : VSTD100

1,4-Dioxane ()

Reason Code:

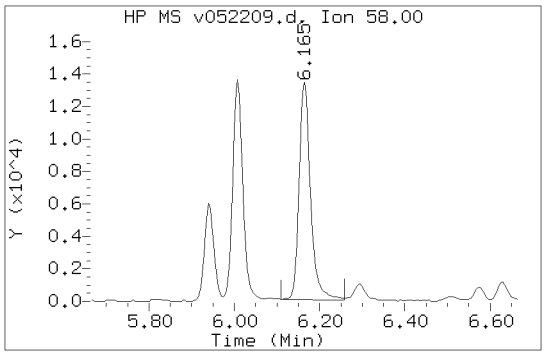
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13401
23-May-2024
09:51
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tastan



AFTER

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23-May-2024
09:51
firat
tastan

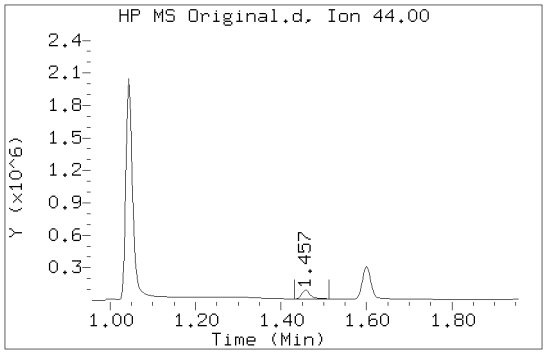


Acetaldehyde (75-07-0)

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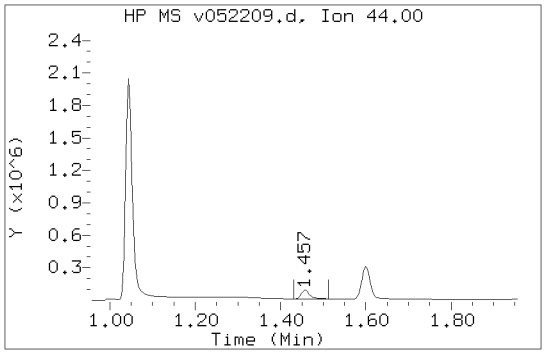
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23-May-2024
09:51
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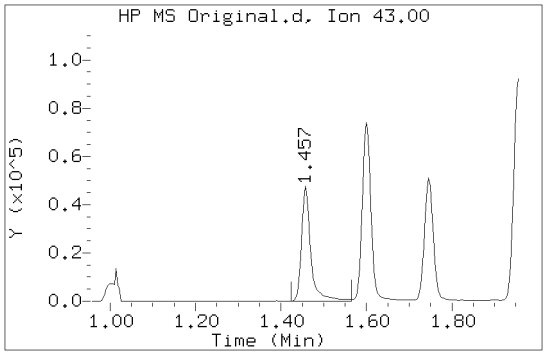
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09:51
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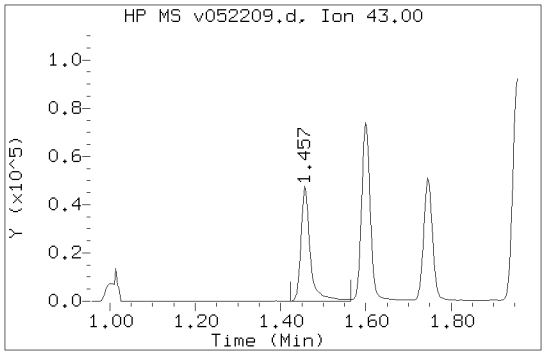
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23-May-2024
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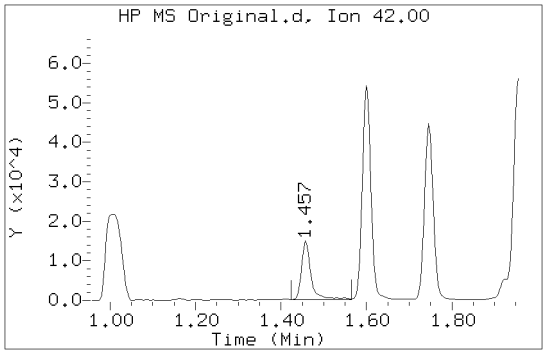
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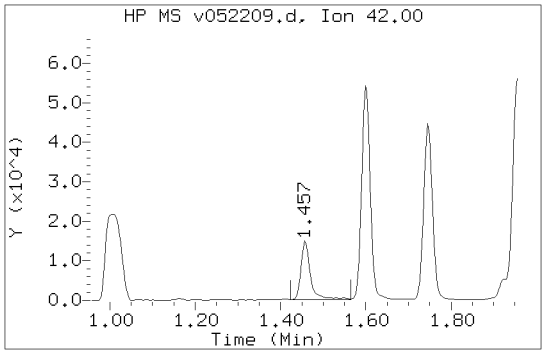
BEFORE

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23-May-2024
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AFTER

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23-May-2024
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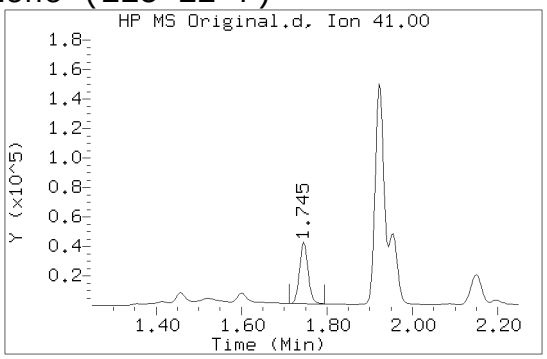


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Inj Date : 22-MAY-2024 22:53
InstruID : VOA9.i
LabSampID : VSTD100

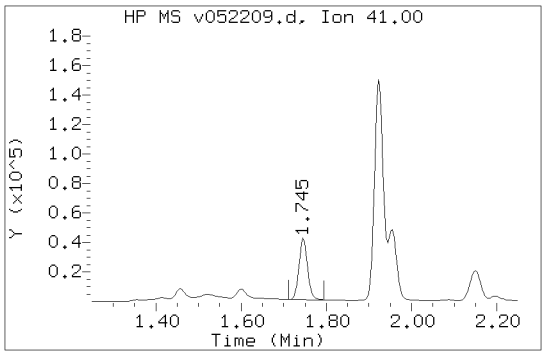
Isobutylene (115-11-7)

Reason Code:

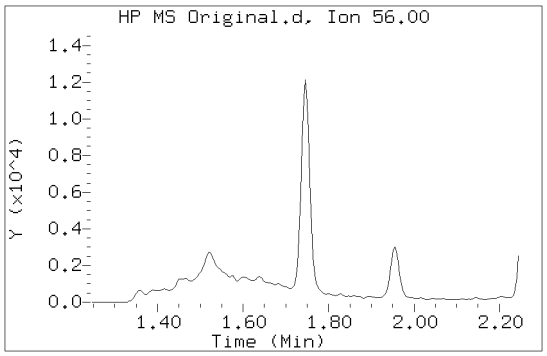
BEFORE
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41
AREA
59172
HEIGHT
41852
23-May-2024
09:51
firat
tastan



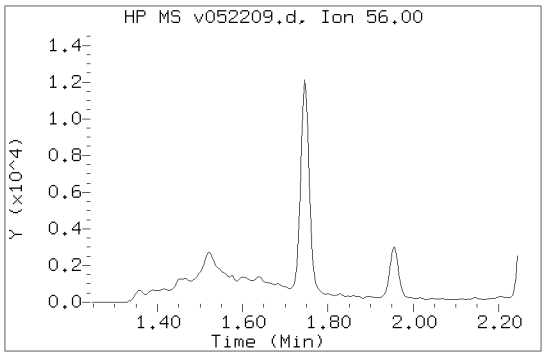
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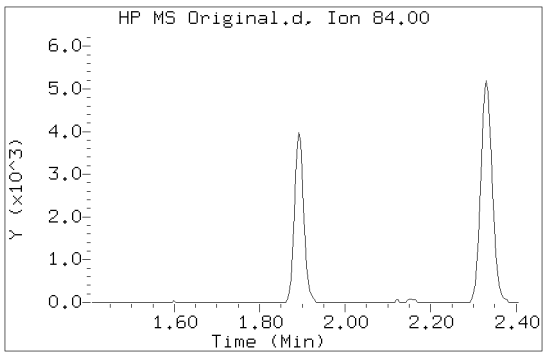
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23-May-2024
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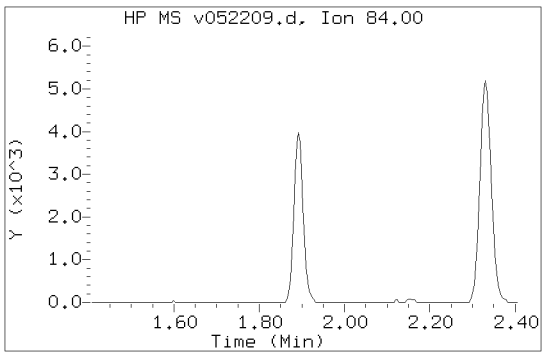
AFTER
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BEFORE
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HEIGHT
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23-May-2024
09:51
firat
tastan



AFTER
MASS
84
AREA
0
HEIGHT
0
23-May-2024
09:51
firat
tastan



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Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052210.D
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Inj Date : 22-MAY-2024 23:14
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 22:53 Cal File: V052209.D
Als bottle: 37 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.819	4.819	(1.000)	239958	50.0000	
	2 Dichlorodifluoromethane	85	1.172	1.172	(0.243)	198151	150.000	154.78(M)
	3 Chloromethane	50	1.303	1.303	(0.270)	607310	150.000	81.54
	4 Propionitrile	54	4.343	4.343	(0.901)	419530	1500.00	1383.72
	5 Vinyl Chloride	62	1.385	1.385	(0.288)	322547	150.000	148.42
	6 Bromomethane	94	1.614	1.614	(0.335)	107492	150.000	90.46
	7 Chloroethane	64	1.700	1.700	(0.353)	211144	150.000	140.67
	8 Trichlorofluoromethane	101	1.903	1.903	(0.395)	378523	150.000	152.61
	9 Acrolein	56	2.274	2.274	(0.472)	26414	300.000	211.54
	10 Acetone	43	2.416	2.416	(0.501)	195395	300.000	225.61
	11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	221684	150.000	146.79
	12 Isobutyl Alcohol	43	5.288	5.288	(1.097)	863241	3000.00	2980.94
	13 Acetonitrile	39	2.678	2.678	(0.556)	291743	1500.00	1472.09
	14 Allyl Chloride	41	2.678	2.678	(0.556)	707694	150.000	138.71
	15 Iodomethane	142	2.472	2.472	(0.513)	163796	300.000	364.07
	16 Acrylonitrile	53	3.072	3.072	(0.638)	200354	300.000	263.67
	17 Methylene Chloride	84	2.798	2.798	(0.581)	267122	150.000	89.97
	18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	666277	150.000	138.43
	19 Carbon Disulfide	76	2.525	2.525	(0.524)	1405239	300.000	307.46
	20 trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	243102	150.000	140.45

21 Vinyl Acetate	43	4.347	4.347 (0.902)	323159	300.000	272.35
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	459660	150.000	133.64

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.616	3.616	(0.750)	386156	150.000	145.96(M)
	24 2-Butanone	43	4.268	4.268	(0.886)	309540	300.000	276.75
	25 Methacrylonitrile	41	4.497	4.497	(0.933)	183139	150.000	144.97(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	332884	150.000	157.24
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	290714	150.000	139.97
	28 Chloroform	83	4.575	4.575	(0.949)	474746	150.000	137.42
	29 Bromochloromethane	128	4.474	4.474	(0.928)	137705	150.000	134.55
$	30 Dibromofluoromethane	113	4.752	4.752	(0.986)	247969	150.000	142.30
	31 1,1,1-Trichloroethane	97	4.748	4.748	(0.985)	391150	150.000	161.73
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	366910	150.000	148.78
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	371348	150.000	135.56
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	327707	150.000	163.50
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	296828	150.000	135.62
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	349206	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	1101756	150.000	138.16
	38 Trichloroethene	130	5.790	5.790	(1.043)	280951	150.000	145.14
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	349201	150.000	164.23
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	109195	150.000	145.55
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	262521	300.000	386.61
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	299364	150.000	135.31
	43 2-Nitropropane	43	6.510	6.510	(1.351)	73483	150.000	178.46(M)
	44 Dibromomethane	93	6.120	6.120	(1.102)	171098	150.000	142.09
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	687712	300.000	309.86
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	439737	150.000	179.31
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	321752	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	927386	150.000	141.89
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	422534	150.000	164.01(M)
	50 Toluene	91	6.982	6.982	(0.853)	1144047	150.000	140.69
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	365940	150.000	191.23
	52 2-Hexanone	43	7.589	7.589	(0.927)	464185	300.000	312.32
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	214887	150.000	133.81
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	469335	150.000	138.99
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	280256	150.000	177.72
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	222191	150.000	144.94
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	259365	150.000	150.71
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	252903	150.000	90.41
	59 Chlorobenzene	112	8.208	8.208	(1.003)	727850	150.000	131.48
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	264682	150.000	157.67
	61 Ethylbenzene	106	8.305	8.305	(1.015)	382760	150.000	146.85
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	960371	300.000	300.06
	63 o-Xylene	106	8.744	8.744	(1.068)	465583	150.000	148.61
	64 Styrene	104	8.759	8.759	(1.070)	821909	150.000	154.66
	66 Bromoform	173	8.916	8.916	(1.089)	191523	150.000	195.04
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1192276	150.000	153.46
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	369458	150.000	138.76
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	343103	150.000	137.53
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	173466	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	395706	150.000	148.99
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	88907	150.000	154.80
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1400350	150.000	156.30
	74 Bromobenzene	156	9.317	9.317	(0.916)	320122	150.000	140.31
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	989469	150.000	160.03

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	831056	150.000	143.15
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	965133	150.000	145.97

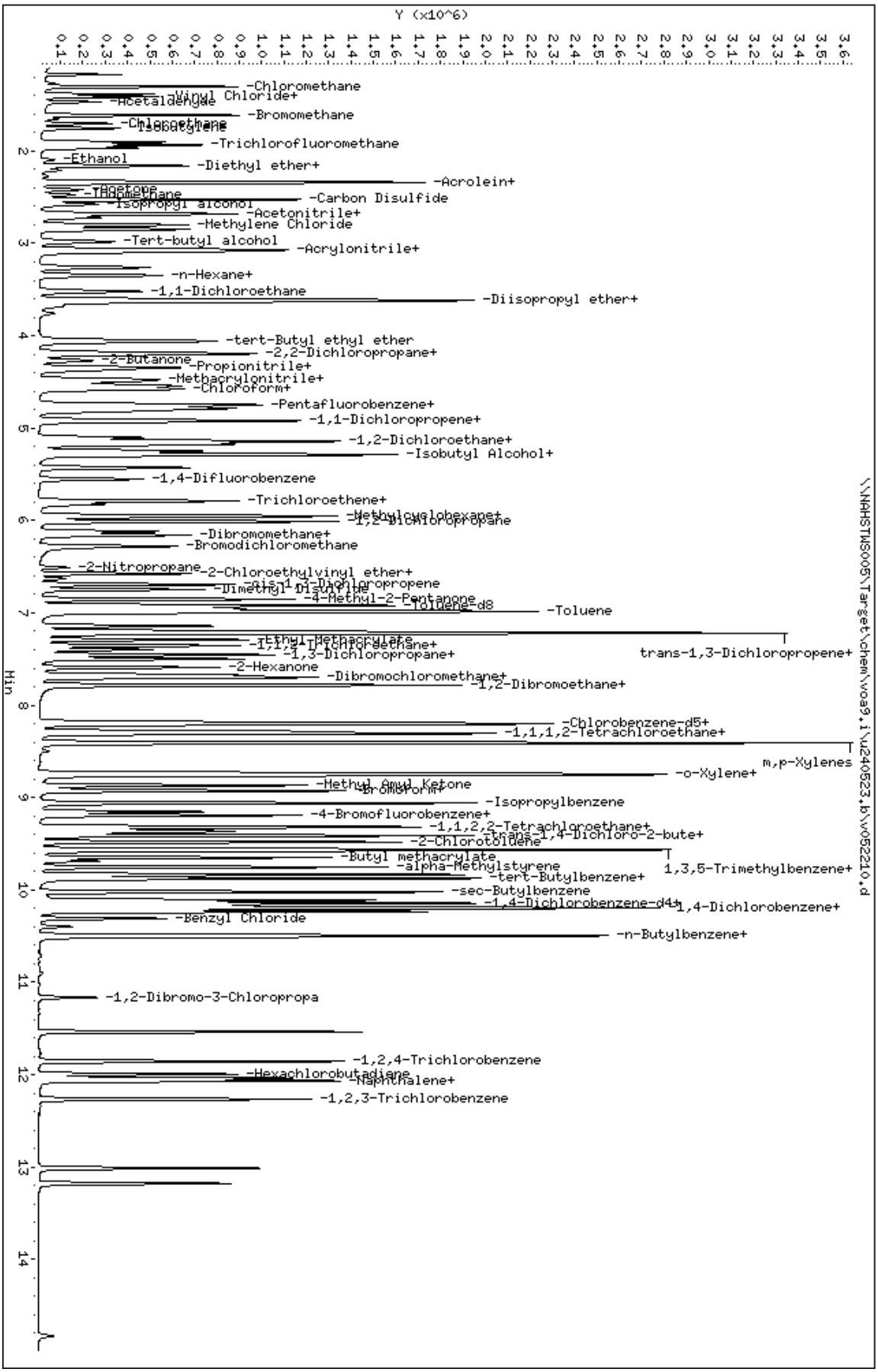
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	841533	150.000	155.15
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	978699	150.000	154.30
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1161338	150.000	161.13
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1029142	150.000	163.99
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	572945	150.000	139.69(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	591659	150.000	129.21
86	Benzyl Chloride	91	10.311	10.311	(1.260)	376162	150.000	107.03
87	n-Butylbenzene	91	10.491	10.491	(1.032)	921709	150.000	151.31
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	559869	150.000	134.80
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	53671	150.000	182.69
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	400246	150.000	153.70
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	168921	150.000	147.63
92	Naphthalene	128	12.065	12.065	(1.187)	942854	150.000	170.68
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	367419	150.000	151.52
146	Methyl acetate	43	2.720	2.720	(0.564)	289604	150.000	121.09
138	Freon TF	101	2.341	2.341	(0.486)	422728	150.000	163.60
141	Cyclohexane	56	4.785	4.785	(0.993)	413887	150.000	95.15
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	106261	300.000	233.78
147	Methylcyclohexane	55	5.947	5.947	(1.071)	707169	150.000	168.68(A)
135	1,4-Dioxane	88	6.169	6.169	(1.280)	58072	3000.00	2137.25(M)
132	n-Butanol	56	5.827	5.827	(1.209)	154786	3000.00	3424.75
136	n-Hexane	57	3.346	3.346	(0.694)	275576	150.000	146.86
139	Diethyl ether	59	2.154	2.154	(0.447)	184324	150.000	138.61
148	Tert-butyl alcohol	59	2.982	2.982	(0.619)	393893	3000.00	2760.03
149	Isopropyl alcohol	45	2.577	2.577	(0.535)	317783	3000.00	2762.64
152	Amyl alcohol	42	7.398	7.398	(0.904)	179902	3000.00	3187.51
156	Diisopropyl ether	45	3.627	3.627	(0.753)	865221	150.000	137.41
162	Butyl acrylate	55	8.729	8.729	(1.066)	597576	150.000	175.60
187	n-Amyl acetate	43	8.928	8.928	(1.091)	545320	150.000	149.80
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1228197	150.000	136.77
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	907380	150.000	154.27
167	Ethanol	45	2.097	2.097	(0.435)	60218	3000.00	2565.11
172	tert-Butyl formate	59	5.246	5.246	(1.089)	441582	300.000	319.59(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	652708	3000.00	3069.43
174	tert-Amyl methyl ether	73	5.288	5.288	(1.097)	823130	150.000	155.10
175	tert-Butyl ethyl ether	59	4.058	4.058	(0.842)	791524	150.000	148.38
176	tert-Amyl alcohol	59	5.246	5.246	(1.089)	441582	3000.00	3211.15
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	1911785	3000.00	3661.04
140	1,3-Butadiene	54	1.411	1.411	(0.293)	144272	150.000	152.17
182	Epichlorohydrin	57	6.630	6.630	(1.194)	84666	600.000	666.14
M 94	1,2-Dichloroethylene (total)	96				533816	300.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	421653	150.000	165.92
130	Ethyl Acetate	43	4.347	4.347	(0.902)	323159	150.000	138.00
131	Methyl Acrylate	55	4.373	4.373	(0.907)	341037	150.000	148.31
189	n-Butyl acetate	43	7.702	7.702	(0.941)	536822	150.000	161.82
134	Cyclohexanone	55	9.152	9.152	(0.900)	279590	3000.00	2787.99
185	Isoprene	39	2.165	2.165	(0.449)	67449	150.000	165.35
188	Isopropyl acetate	43	5.288	5.288	(0.952)	858493	150.000	146.79
150	Allyl alcohol	57	3.346	3.346	(0.694)	275576	3000.00	2937.27
194	Acetaldehyde	44	1.468	1.468	(0.305)	186588	600.000	576.87(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	665328	150.000	164.91
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	293895	150.000	289.09(A)

202 Isobutylene	41	1.756	1.756 (0.365)	97888	150.000	178.46(M)
133 Ethyl Acrylate	55	5.947	5.947 (1.234)	707169	150.000	167.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	327444	150.000	138.75
159 Propylene oxide	43	2.210	2.210	(0.459)	38997	300.000	214.85(A)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	349547	150.000	207.45(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Column phase: DB624

Instrument: VOA9.i
Operator: FT
Column diameter: 0.18

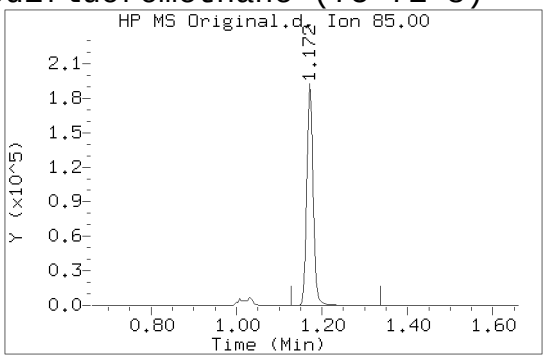
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LabSampID : VSTD150

Dichlorodifluoromethane (75-71-8)

Reason Code:

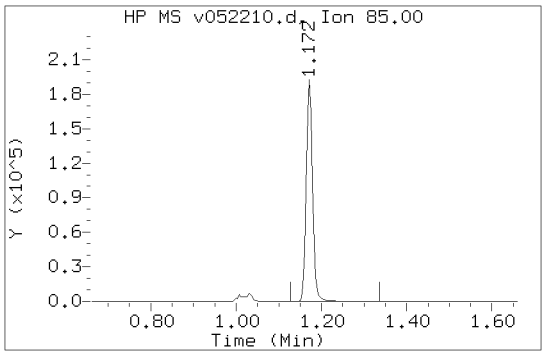
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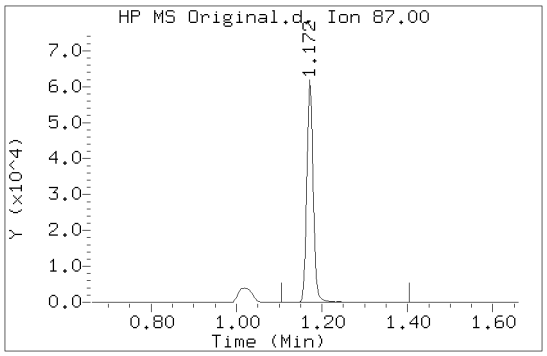
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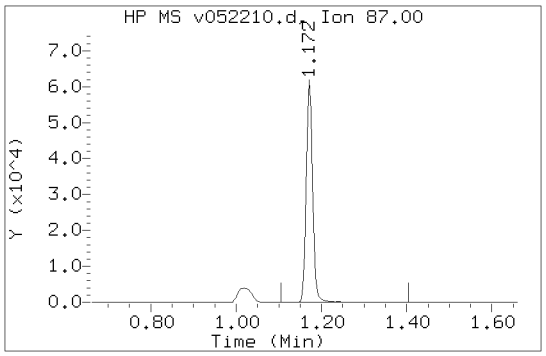
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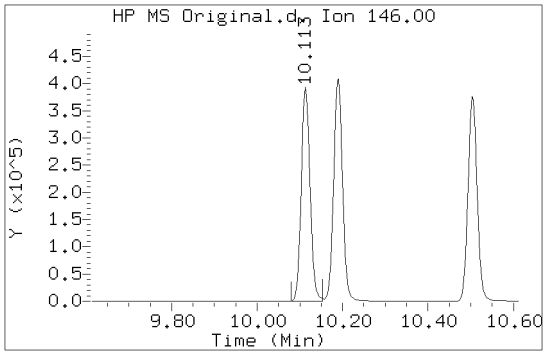


1,3-Dichlorobenzene (541-73-1)

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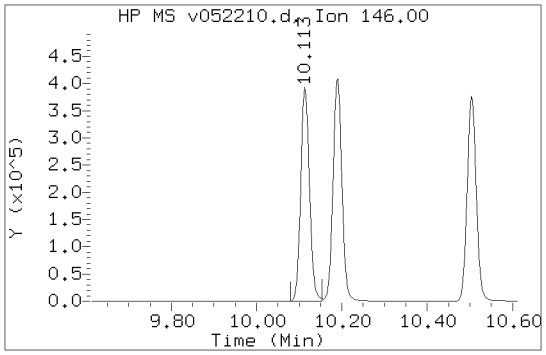
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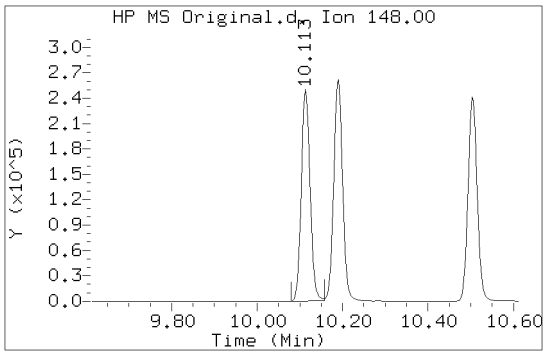
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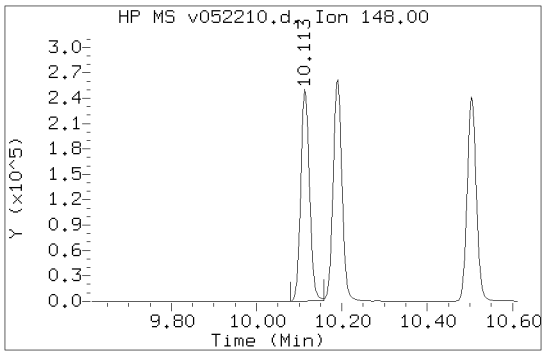
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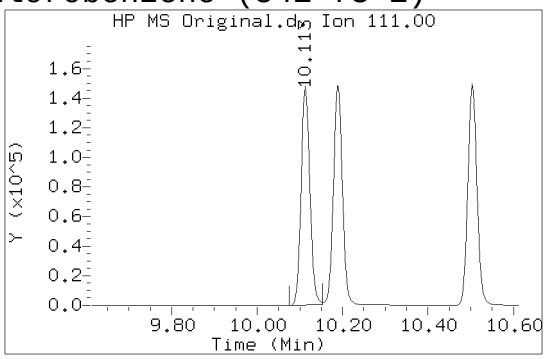
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LabSampID : VSTD150

1,3-Dichlorobenzene (541-73-1)

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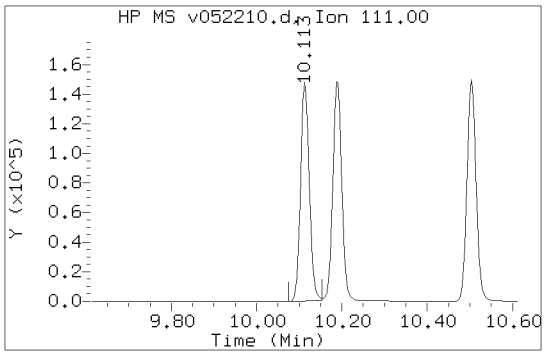
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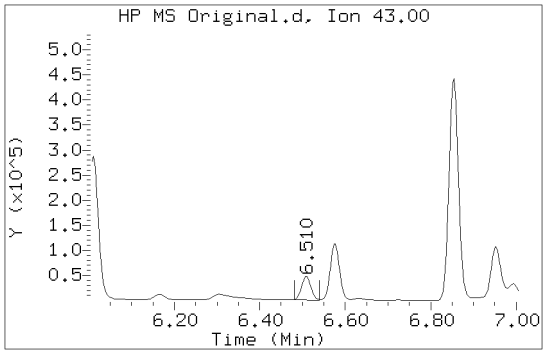


2-Nitropropane (79-46-9)

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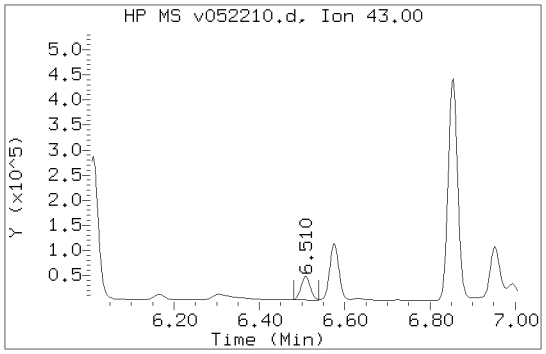
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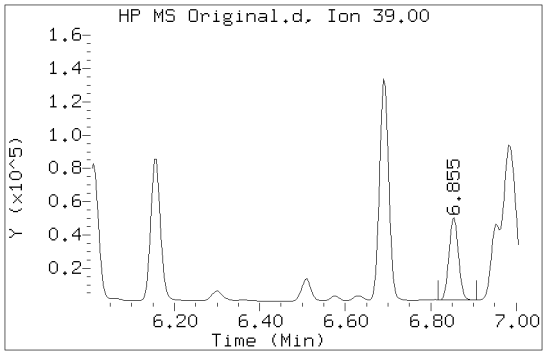
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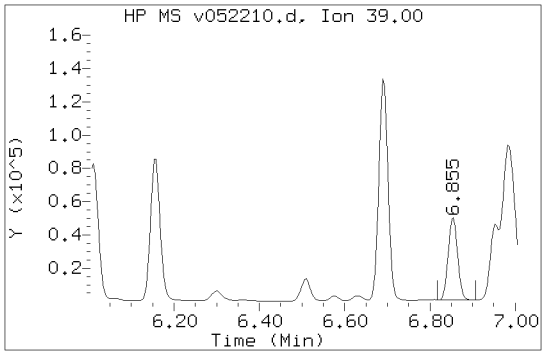
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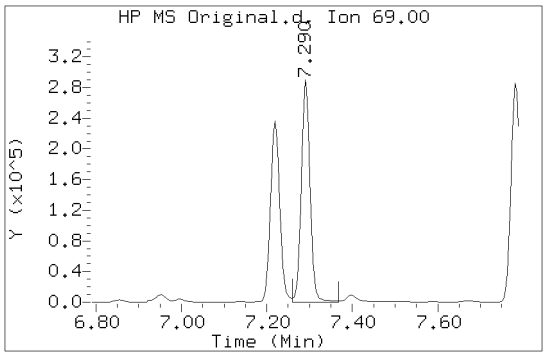


Ethyl Methacrylate (97-63-2)

Reason Code:

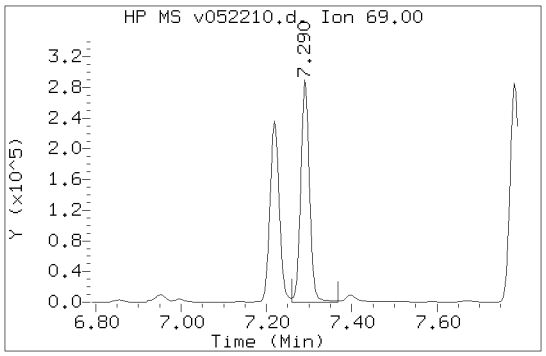
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AFTER

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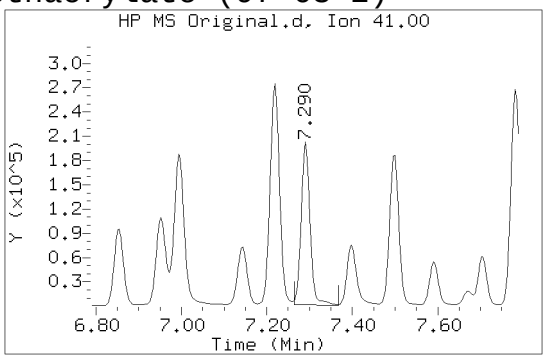
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LabSampID : VSTD150

Ethyl Methacrylate (97-63-2)

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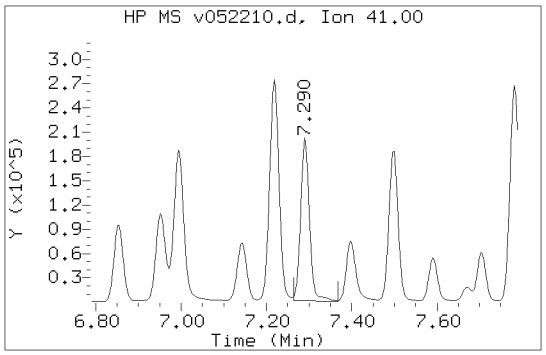
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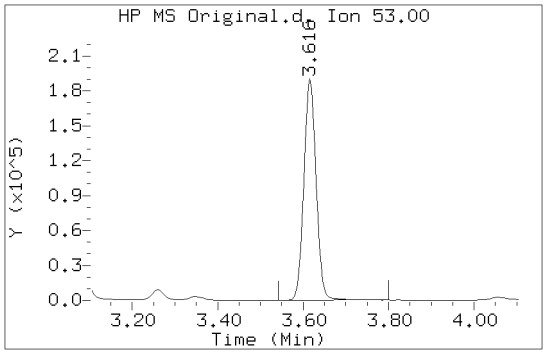


Chloroprene (126-99-8)

Reason Code:

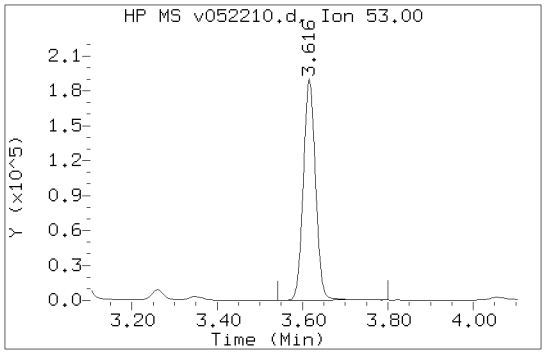
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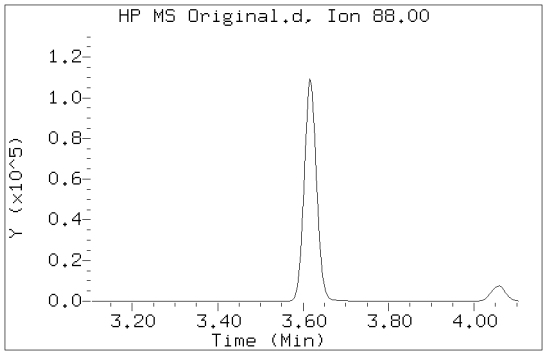
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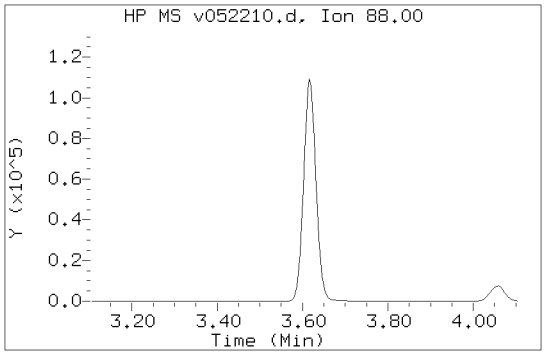
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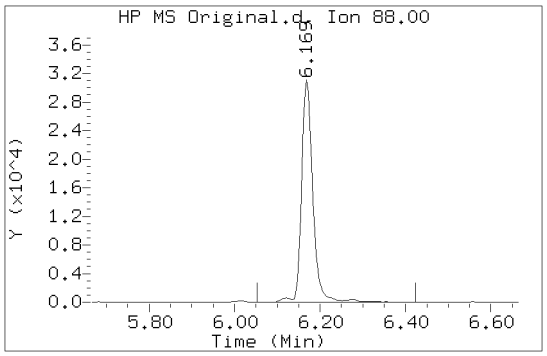


1,4-Dioxane ()

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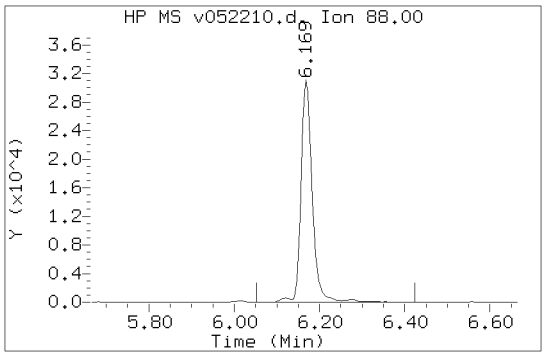
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AFTER

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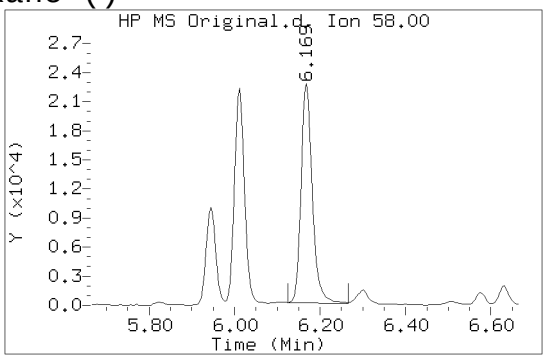
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Inj Date : 22-MAY-2024 23:14
InstruID : VOA9.i
LabSampID : VSTD150

1,4-Dioxane ()

Reason Code:

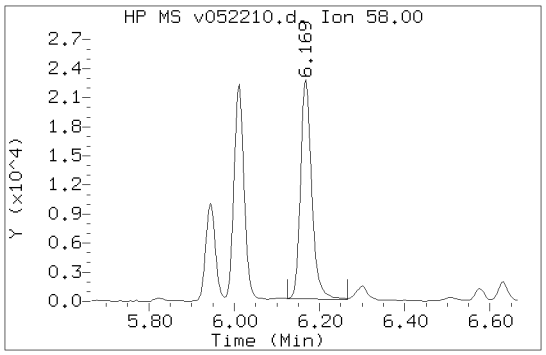
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AFTER

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23-May-2024
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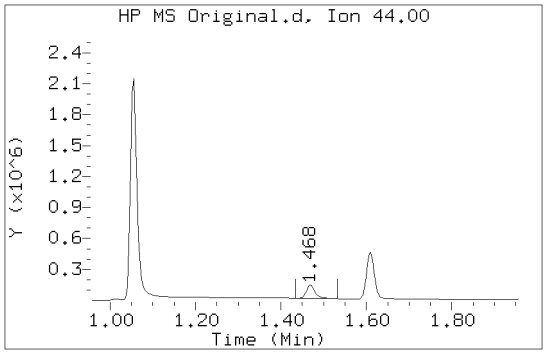


Acetaldehyde (75-07-0)

Reason Code:

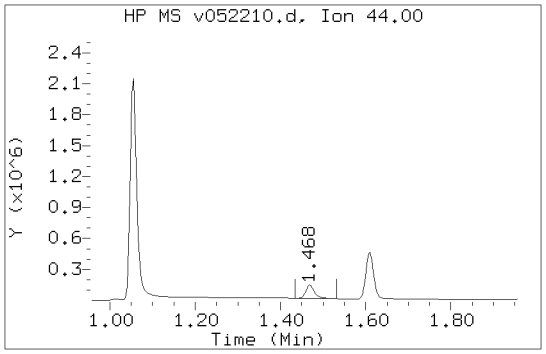
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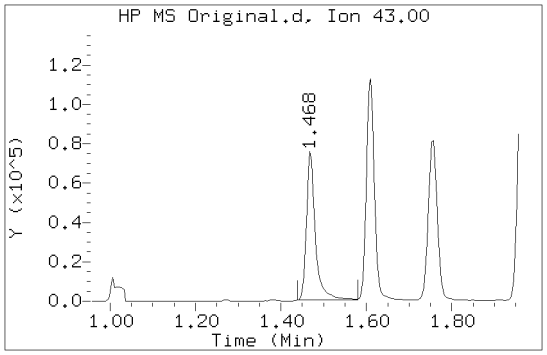
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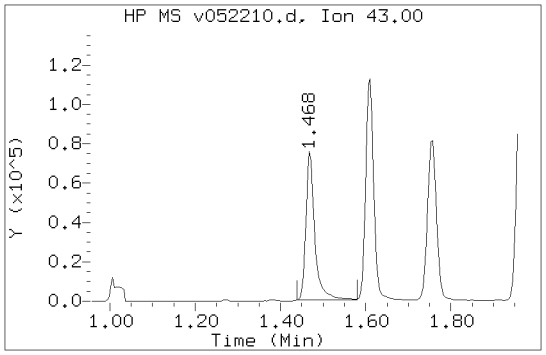
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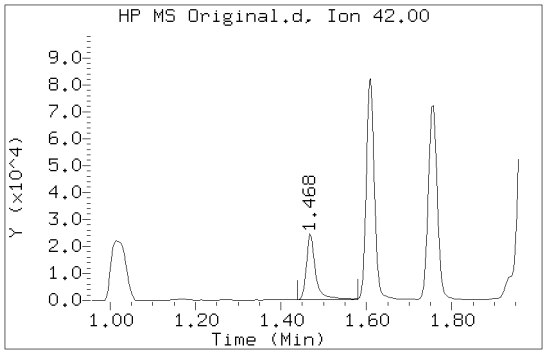
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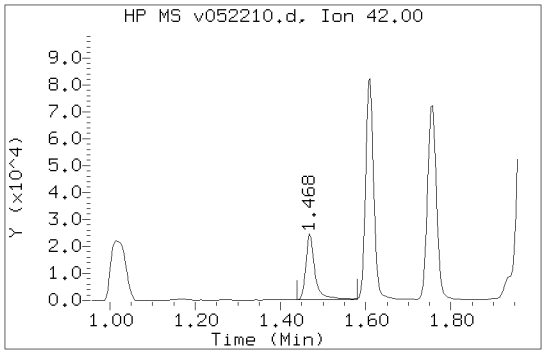
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23-May-2024
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AFTER

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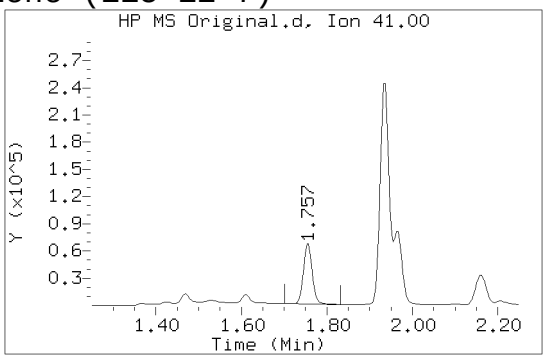


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InstruID : VOA9.i
LabSampID : VSTD150

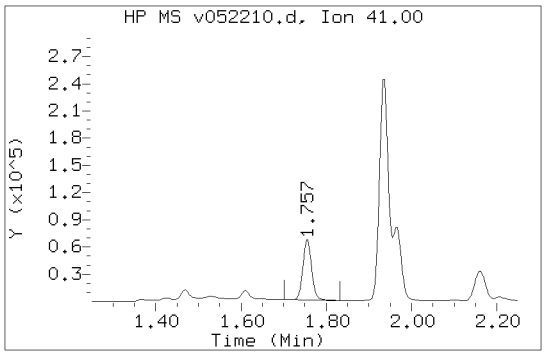
Isobutylene (115-11-7)

Reason Code:

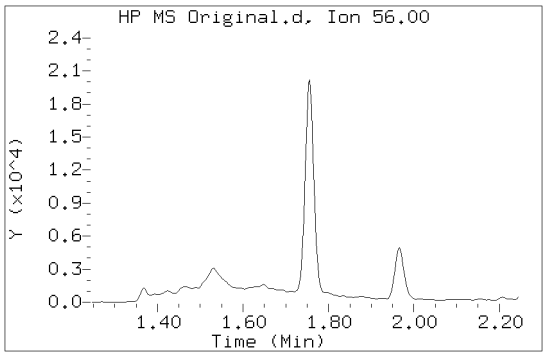
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23-May-2024
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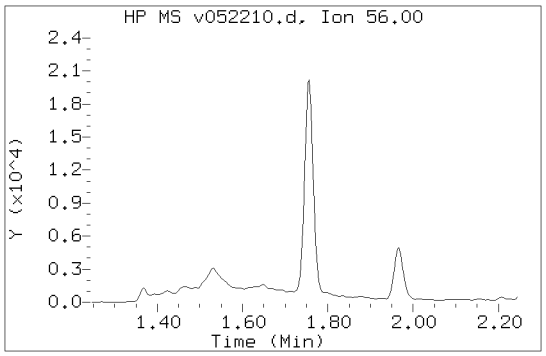
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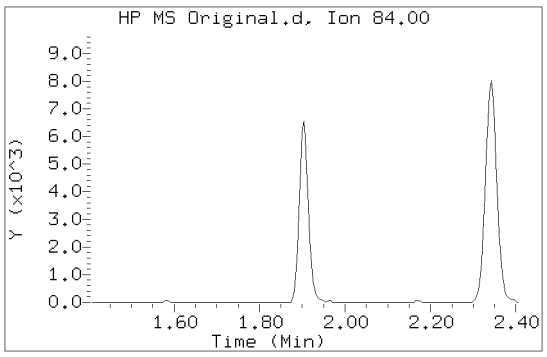
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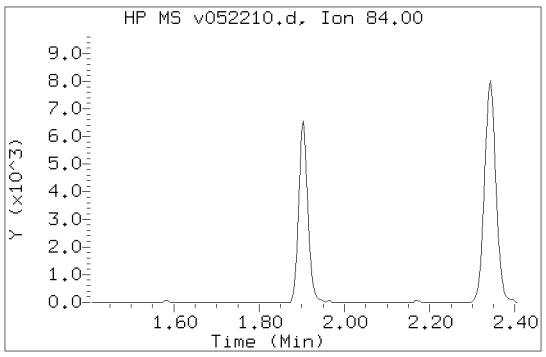
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BEFORE
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09:51
firat
tastan



AFTER
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AREA
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HEIGHT
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23-May-2024
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firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052211.D Page 1
Report Date: 23-May-2024 09:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052211.D
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Inj Date : 22-MAY-2024 23:36
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 23-May-2024 09:51 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 23:14 Cal File: V052210.D
Als bottle: 38 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	254127	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	266043	200.000	196.22(M)
3	Chloromethane	50	1.299	1.299	(0.270)	777289	200.000	98.55
4	Propionitrile	54	4.339	4.339	(0.901)	549038	2000.00	1709.90
5	Vinyl Chloride	62	1.381	1.381	(0.287)	439354	200.000	190.90
6	Bromomethane	94	1.610	1.610	(0.334)	156929	200.000	124.71
7	Chloroethane	64	1.696	1.696	(0.352)	291704	200.000	183.51
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	512939	200.000	195.27
9	Acrolein	56	2.266	2.266	(0.471)	34482	400.000	260.76
10	Acetone	43	2.412	2.412	(0.501)	261791	400.000	285.42
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	303302	200.000	189.64
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	1273928	4000.00	4153.85(A)
13	Acetonitrile	39	2.675	2.675	(0.556)	392164	2000.00	1868.48
14	Allyl Chloride	41	2.675	2.675	(0.556)	947838	200.000	175.42
15	Iodomethane	142	2.469	2.469	(0.513)	314738	400.000	660.58(A)
16	Acrylonitrile	53	3.068	3.068	(0.637)	266324	400.000	330.95
17	Methylene Chloride	84	2.795	2.795	(0.580)	364439	200.000	115.91
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	899435	200.000	176.46
19	Carbon Disulfide	76	2.521	2.521	(0.524)	1923765	400.000	397.44
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	332816	200.000	181.57

21 Vinyl Acetate	43	4.343	4.343 (0.902)	430445	400.000	342.54
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	632104	200.000	173.54

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	519657	200.000	185.48(M)
	24 2-Butanone	43	4.264	4.264	(0.886)	411704	400.000	347.57
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	250943	200.000	187.57(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	456164	200.000	203.47(A)
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	398574	200.000	181.21
	28 Chloroform	83	4.575	4.575	(0.950)	645327	200.000	176.38
	29 Bromochloromethane	128	4.470	4.470	(0.928)	188513	200.000	173.93
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	343699	200.000	186.24
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	534218	200.000	208.57(A)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	494827	200.000	188.40
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	502406	200.000	172.22
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	452845	200.000	212.15(A)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	404807	200.000	174.64
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	371900	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	1506050	200.000	177.34
	38 Trichloroethene	130	5.786	5.786	(1.042)	382844	200.000	185.71
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	483633	200.000	213.58(A)
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	141715	200.000	178.37
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	365558	400.000	505.50(A)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	409712	200.000	173.89
	43 2-Nitropropane	43	6.506	6.506	(1.351)	103519	200.000	237.39(AM)
	44 Dibromomethane	93	6.120	6.120	(1.102)	232839	200.000	181.56
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	919104	400.000	392.84
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	607129	200.000	232.46(A)
*	47 Chlorobenzene-d5	117	8.182	8.182	(1.000)	339173	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1284061	200.000	186.37
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	576848	200.000	210.25(M)
	50 Toluene	91	6.978	6.978	(0.853)	1552231	200.000	181.08
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	509892	200.000	250.20(A)
	52 2-Hexanone	43	7.589	7.589	(0.928)	625529	400.000	399.26
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	291834	200.000	172.40
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	637919	200.000	179.21
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	388512	200.000	233.72(A)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	302775	200.000	187.36
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	351203	200.000	193.60
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	347980	200.000	116.81
	59 Chlorobenzene	112	8.208	8.208	(1.003)	999180	200.000	171.22
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	369070	200.000	208.57(A)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	523853	200.000	190.66
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	1307803	400.000	387.62
	63 o-Xylene	106	8.744	8.744	(1.069)	638558	200.000	193.35
	64 Styrene	104	8.759	8.759	(1.071)	1127425	200.000	201.25(A)
	66 Bromoform	173	8.916	8.916	(1.090)	268349	200.000	259.24(A)
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	1623884	200.000	198.28
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	495269	200.000	176.67
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	472873	200.000	179.81
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	182636	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.921)	536785	200.000	191.96
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	121414	200.000	200.55(A)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	1829443	200.000	193.94
	74 Bromobenzene	156	9.314	9.314	(0.916)	438638	200.000	182.61
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	1351352	200.000	207.58(A)

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	1126049	200.000	184.23
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	1312288	200.000	188.52

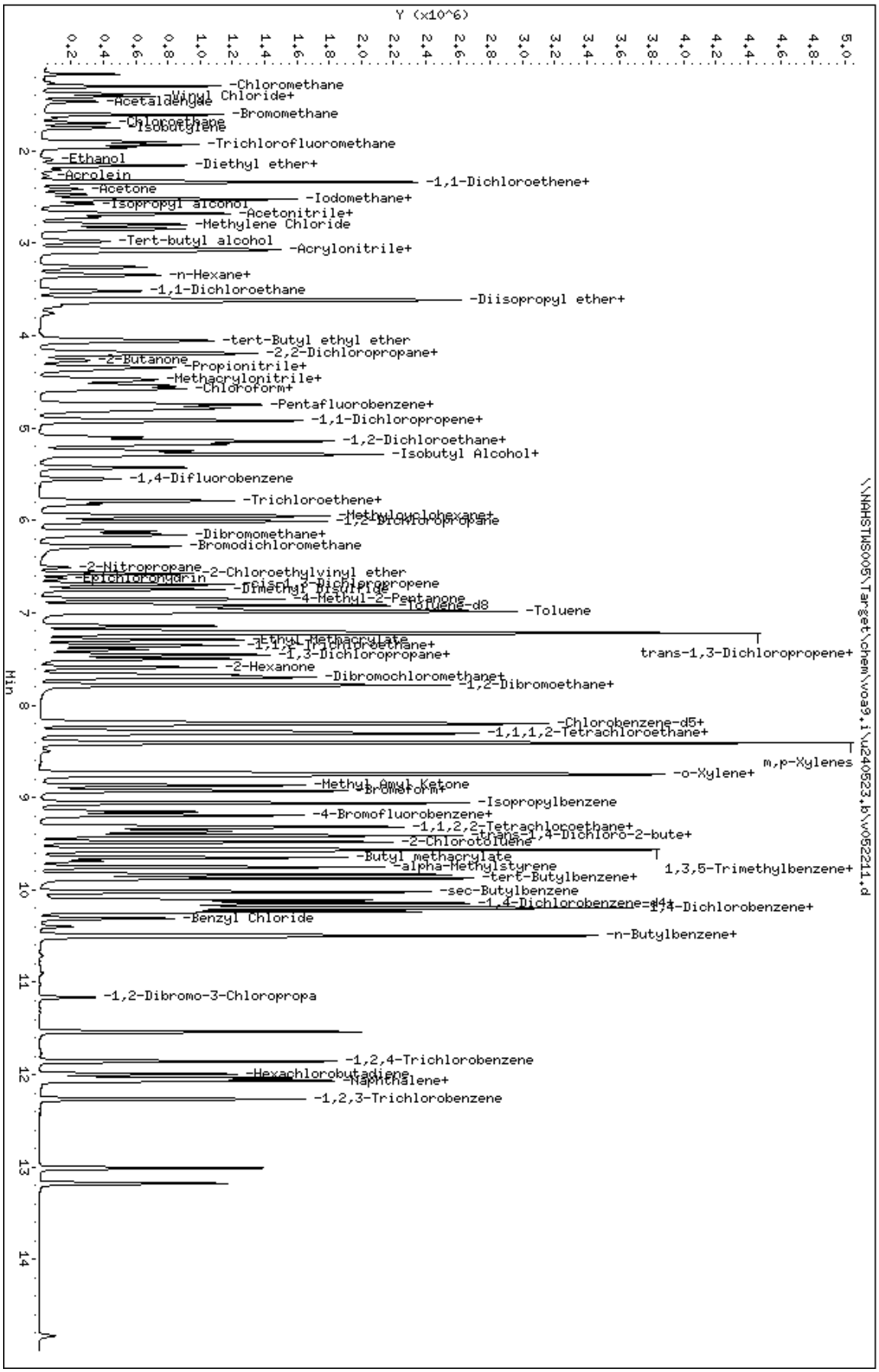
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	1142905	200.000	200.13(A)
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	1329724	200.000	199.11
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	1570064	200.000	206.90(A)
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	1403911	200.000	212.48(A)
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	778320	200.000	180.23(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	800109	200.000	165.96
86	Benzyl Chloride	91	10.307	10.307	(1.260)	544172	200.000	146.89
87	n-Butylbenzene	91	10.491	10.491	(1.032)	1247444	200.000	194.50
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	765245	200.000	175.00
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	75288	200.000	243.40(A)
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	553105	200.000	201.73(A)
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	231334	200.000	192.02
92	Naphthalene	128	12.065	12.065	(1.187)	1271832	200.000	218.68(A)
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	497537	200.000	194.88
146	Methyl acetate	43	2.716	2.716	(0.564)	389125	200.000	153.64
138	Freon TF	101	2.337	2.337	(0.485)	574722	200.000	210.02(A)
141	Cyclohexane	56	4.785	4.785	(0.994)	565382	200.000	122.74
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	138786	400.000	288.31
147	Methylcyclohexane	55	5.944	5.944	(1.070)	958101	200.000	214.59(A)
135	1,4-Dioxane	88	6.169	6.169	(1.281)	75607	4000.00	2627.45(M)
132	n-Butanol	56	5.824	5.824	(1.209)	206844	4000.00	4321.40(A)
136	n-Hexane	57	3.346	3.346	(0.695)	379527	200.000	190.98
139	Diethyl ether	59	2.150	2.150	(0.447)	254190	200.000	180.50
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	519651	4000.00	3438.21
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	416717	4000.00	3420.73
152	Amyl alcohol	42	7.398	7.398	(0.904)	241673	4000.00	4062.03(A)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	1170909	200.000	175.59
162	Butyl acrylate	55	8.729	8.729	(1.067)	852552	200.000	237.66(A)
187	n-Amyl acetate	43	8.928	8.928	(1.091)	769469	200.000	200.52(A)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	1661176	200.000	175.69
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	1224350	200.000	197.72
167	Ethanol	45	2.094	2.094	(0.435)	79955	4000.00	3215.95
172	tert-Butyl formate	59	5.246	5.246	(1.090)	589770	400.000	403.04(A)
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	877631	4000.00	3915.17
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	1087922	200.000	193.57
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	1086587	200.000	192.34
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	589770	4000.00	4049.64(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	2584636	4000.00	4647.51(A)
140	1,3-Butadiene	54	1.408	1.408	(0.292)	196140	200.000	195.34
182	Epichlorohydrin	57	6.630	6.630	(1.194)	114215	800.000	843.79(A)
M 94	1,2-Dichloroethylene (total)	96				731390	400.000	(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	585888	200.000	218.97(A)
130	Ethyl Acetate	43	4.343	4.343	(0.902)	430445	200.000	173.57
131	Methyl Acrylate	55	4.369	4.369	(0.907)	453745	200.000	186.33
189	n-Butyl acetate	43	7.702	7.702	(0.941)	733335	200.000	209.70(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	373518	4000.00	3537.61
185	Isoprene	39	2.161	2.161	(0.449)	89602	200.000	207.42(A)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	1268452	200.000	203.66(A)
150	Allyl alcohol	57	3.346	3.346	(0.695)	379527	4000.00	3819.70
194	Acetaldehyde	44	1.464	1.464	(0.304)	261202	800.000	762.52(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	922386	200.000	216.88
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	470332	200.000	438.88(A)

202 Isobutylene	41	1.749	1.749 (0.363)	133462	200.000	229.75(AM)
133 Ethyl Acrylate	55	5.944	5.944 (1.234)	958101	200.000	213.83(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	474934	200.000	191.14
159 Propylene oxide	43	2.202	2.202	(0.457)	52739	400.000	274.37(A)
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	486134	200.000	274.03(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\u240523,b\v052211.d
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Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

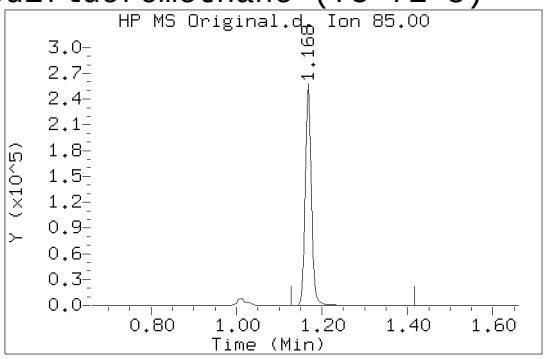
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InstruID : VOA9.i
LabSampID : VSTD200

Dichlorodifluoromethane (75-71-8)

Reason Code:

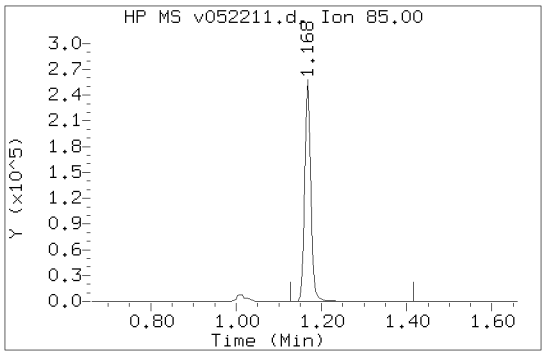
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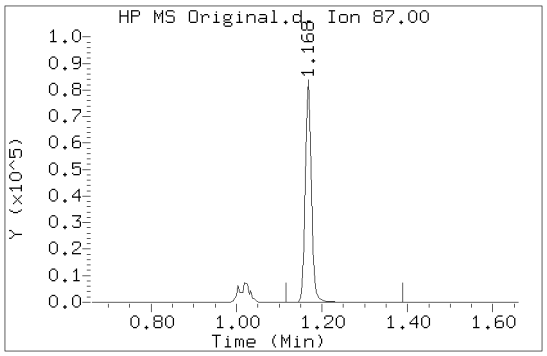
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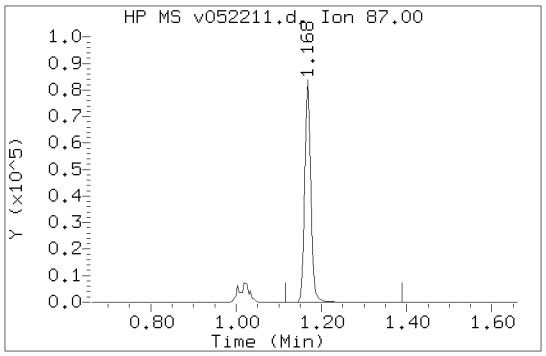
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23-May-2024
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AFTER

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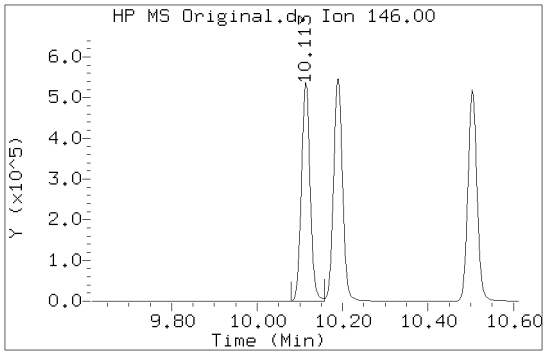


1,3-Dichlorobenzene (541-73-1)

Reason Code:

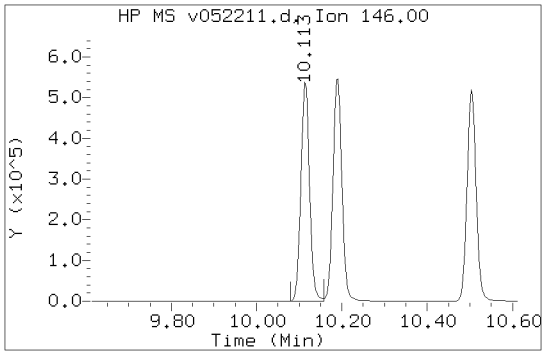
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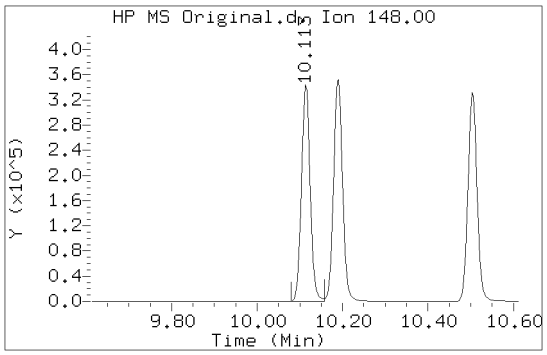
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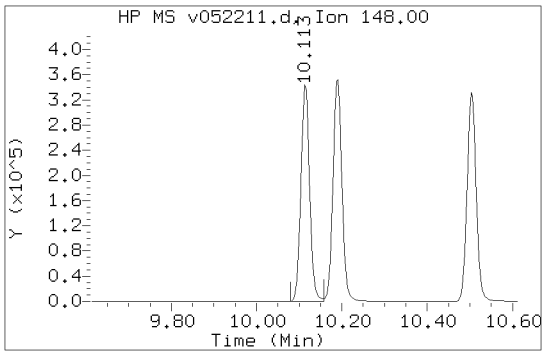
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AFTER

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firat
tastan



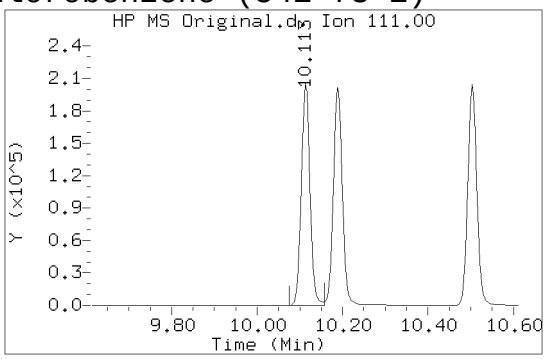
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InstruID : VOA9.i
LabSampID : VSTD200

1,3-Dichlorobenzene (541-73-1)

Reason Code:

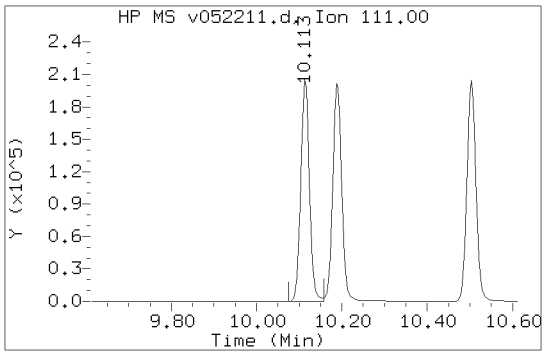
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AFTER

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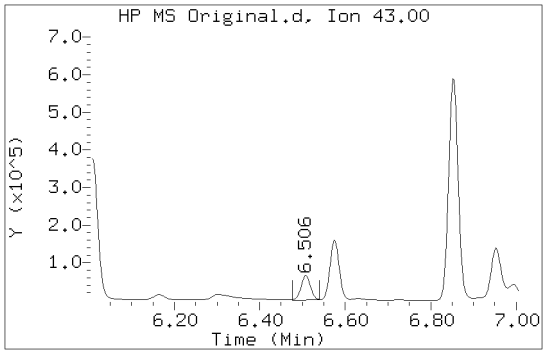


2-Nitropropane (79-46-9)

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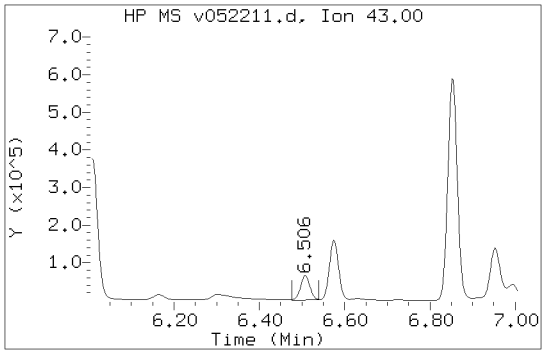
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HEIGHT
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23-May-2024
09:51
firat
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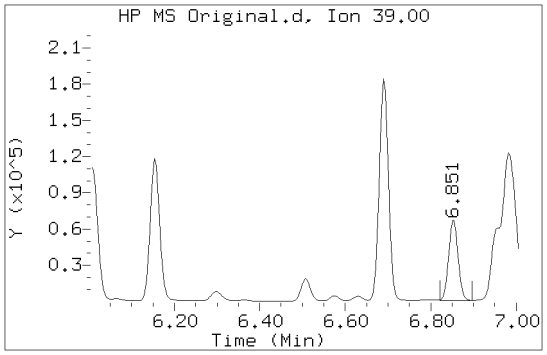
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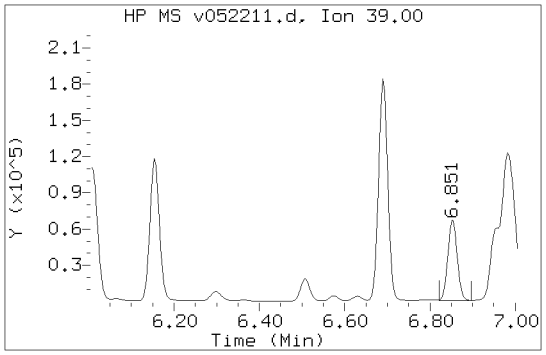
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AFTER

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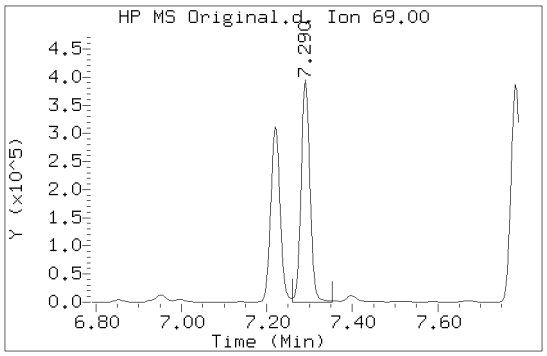


Ethyl Methacrylate (97-63-2)

Reason Code:

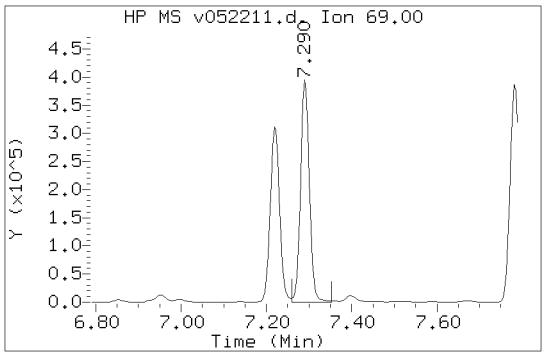
BEFORE

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394745
23-May-2024
09:51
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AFTER

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23-May-2024
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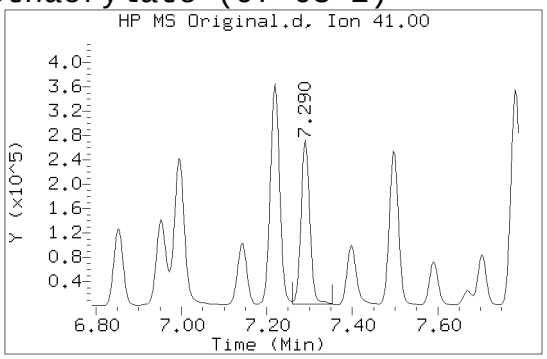


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Inj Date : 22-MAY-2024 23:36
InstruID : VOA9.i
LabSampID : VSTD200

Ethyl Methacrylate (97-63-2)

BEFORE

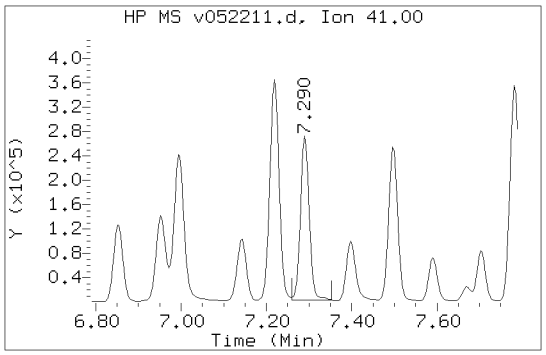
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23-May-2024
09:51
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AFTER

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23-May-2024
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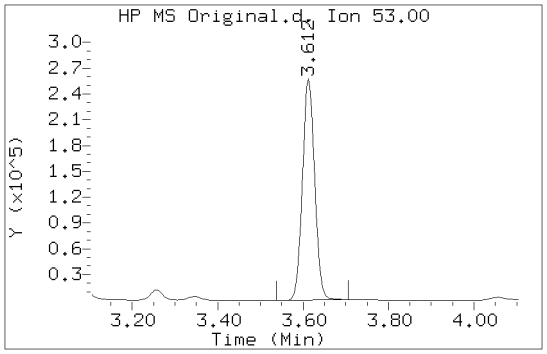
Reason Code:



Chloroprene (126-99-8)

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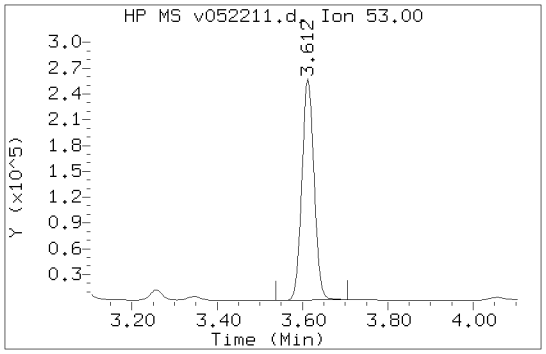
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AFTER

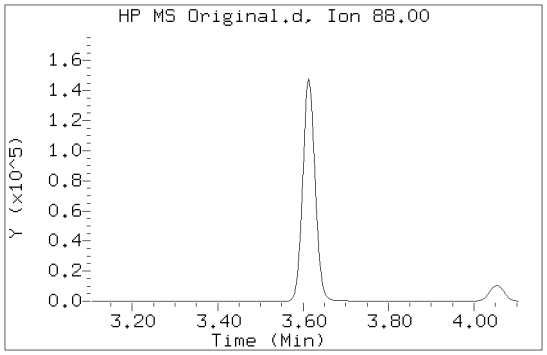
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Reason Code:



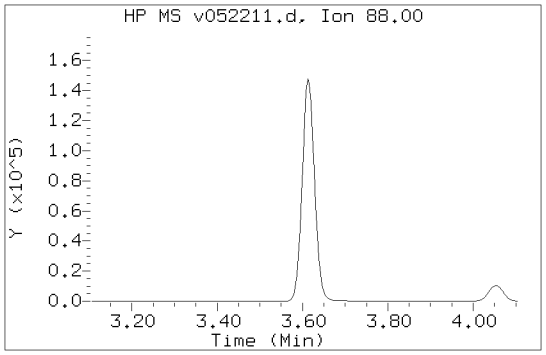
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AFTER

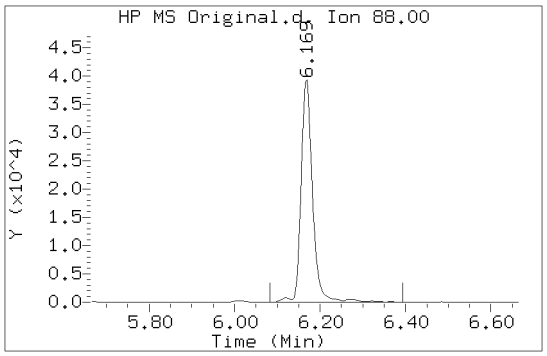
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1,4-Dioxane ()

BEFORE

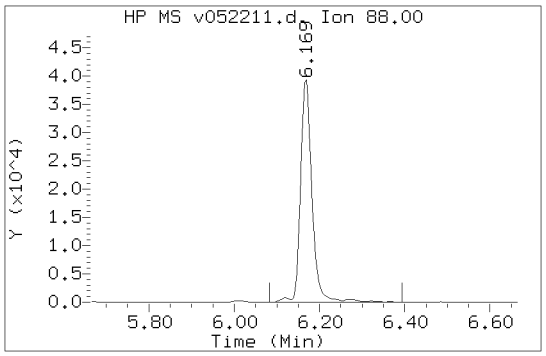
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AFTER

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23-May-2024
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Reason Code:



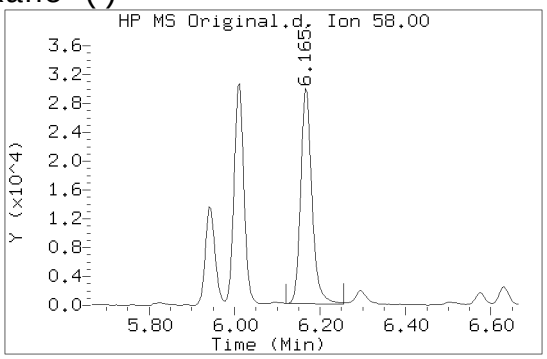
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InstruID : VOA9.i
LabSampID : VSTD200

1,4-Dioxane ()

Reason Code:

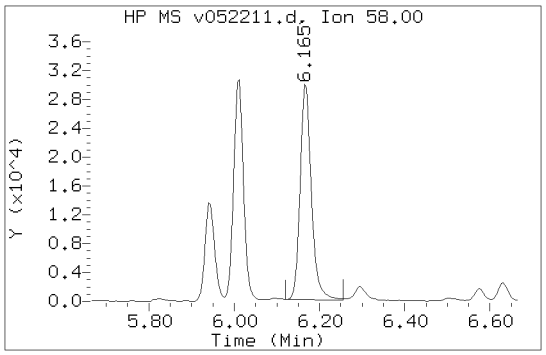
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AFTER

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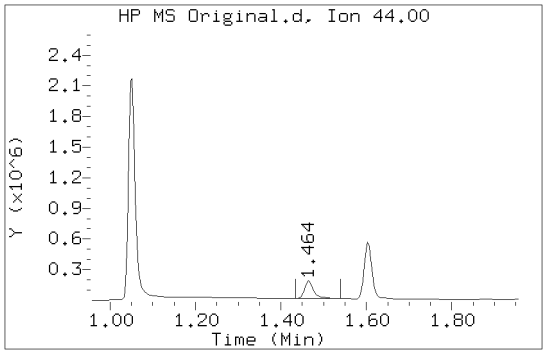


Acetaldehyde (75-07-0)

Reason Code:

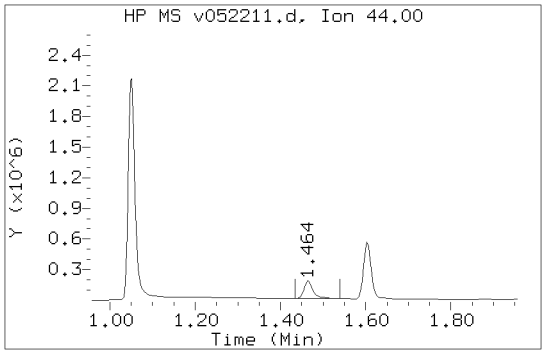
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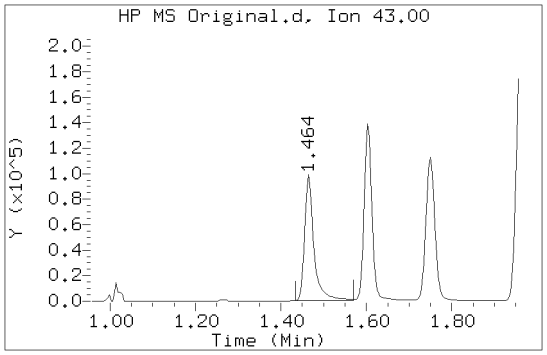
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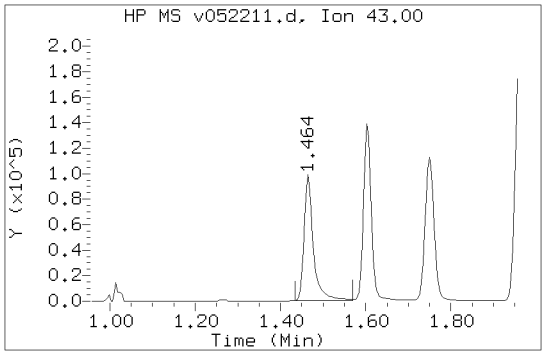
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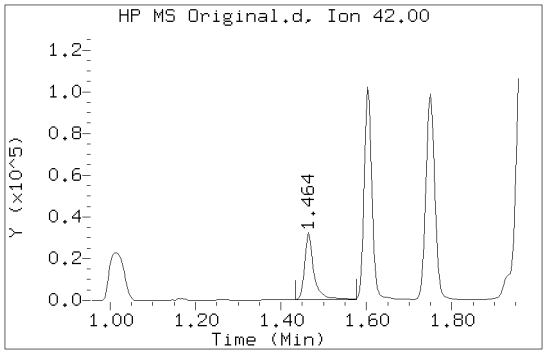
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23-May-2024
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firat
tastan



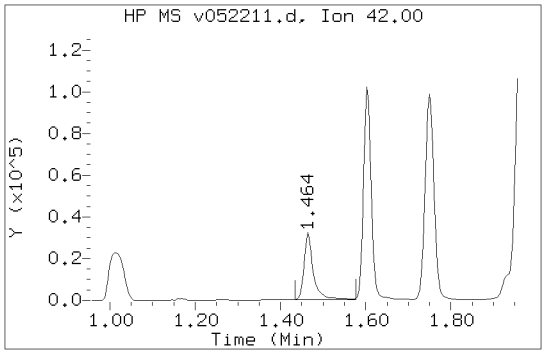
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AFTER

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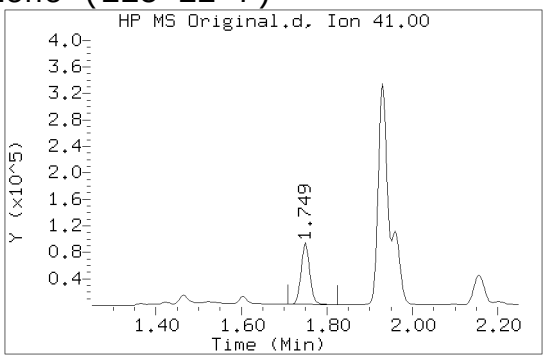
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InstruID : VOA9.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

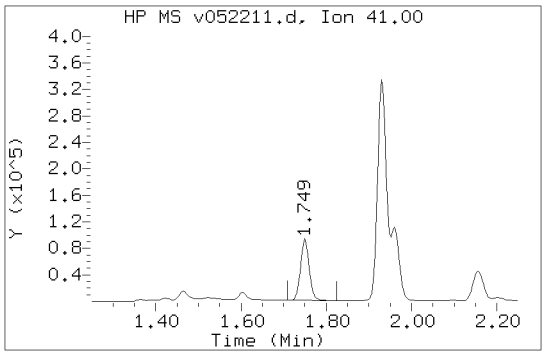
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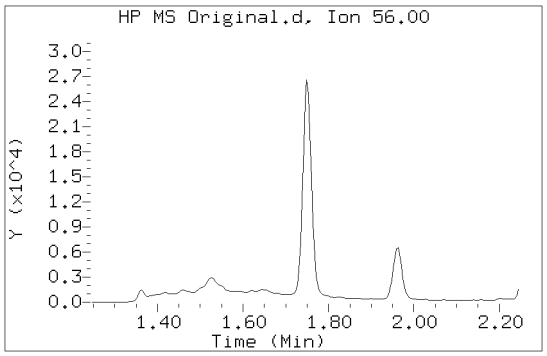
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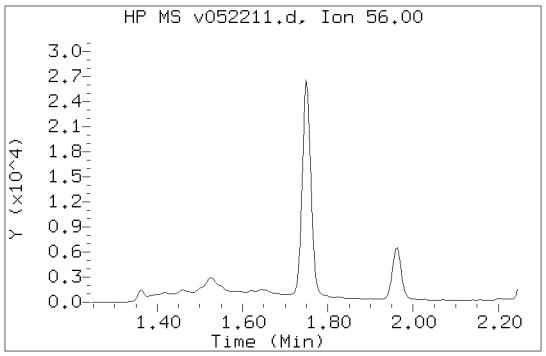
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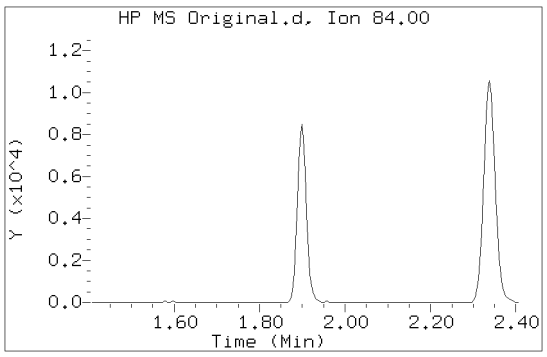
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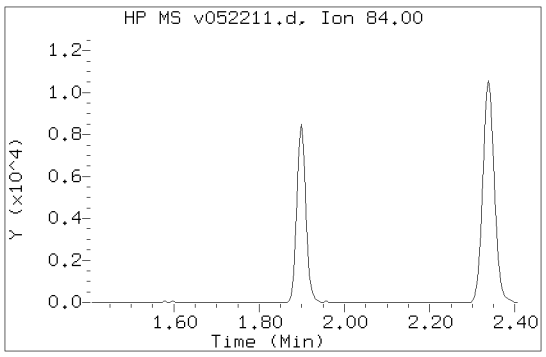
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AFTER

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23-May-2024
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firat
tastan



Data File: \\nahstws005\Target\chem\voa9.i\U240523.b\V052213.D Page 1
Report Date: 23-May-2024 10:05

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240523.b\V052213.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 23-MAY-2024 00:19
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 40 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.190	9.180	(0.000)	95	55384			0.00- 100.00	100.00
9.190	9.180	(0.000)	50	10560			15.00- 40.00	19.07
9.190	9.180	(0.000)	75	27168			30.00- 60.00	49.05
9.190	9.180	(0.000)	96	3840			5.00- 9.00	6.93
9.190	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.190	9.180	(0.000)	174	45424			50.00- 0.00	82.02
9.190	9.180	(0.000)	175	4058			5.00- 9.00	8.93
9.190	9.180	(0.000)	176	44520			95.00- 101.00	98.01
9.190	9.180	(0.000)	177	3139			5.00- 9.00	7.05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.07
75	30.00 - 60.00% of mass 95	49.05
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.02
175	5.00 - 9.00% of mass 174	7.33 (8.93)
176	95.00 - 101.00% of mass 174	80.38 (98.01)
177	5.00 - 9.00% of mass 176	5.67 (7.05)

Data File: V052213.D
Spectrum: Scan 2292 (9.18)
Location of Maximum: 95.05
Number of points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	597	60.00	519	87.00	2712	130.60	56
37.00	2836	61.00	2531	88.00	2266	134.80	116
38.10	2622	62.00	2488	90.90	237	136.70	95
39.00	1123	63.00	1846	92.00	1508	140.00	79
40.00	196	64.00	220	93.00	2219	140.90	558
40.80	64	65.00	227	94.10	6749	141.90	73
41.90	64	67.00	165	95.00	55384	142.90	511
42.90	61	68.00	5698	96.00	3840	145.80	108
44.00	469	69.00	5429	97.00	182	147.90	158
45.10	571	70.00	454	103.80	243	154.80	151
46.10	91	72.00	279	105.00	71	157.00	93
47.00	963	73.00	2440	105.80	161	158.90	83
48.00	405	74.00	9057	110.90	53	170.60	54
49.00	2411	75.00	27168	114.80	63	172.00	244
50.00	10560	76.00	2593	115.90	198	173.90	45424
51.00	3320	77.00	436	116.80	310	175.00	4058
52.00	209	77.90	284	117.80	187	175.90	44520
55.10	157	78.90	1360	118.90	228	176.90	3139
56.00	769	79.90	465	127.80	188	177.90	111
57.00	1405	80.90	1396	128.80	112		
58.00	64	81.90	383	129.90	206		

Data File: \\NAHSTWS005\Target\chem\voa9.i\u240523.b\v052213.d Page 1

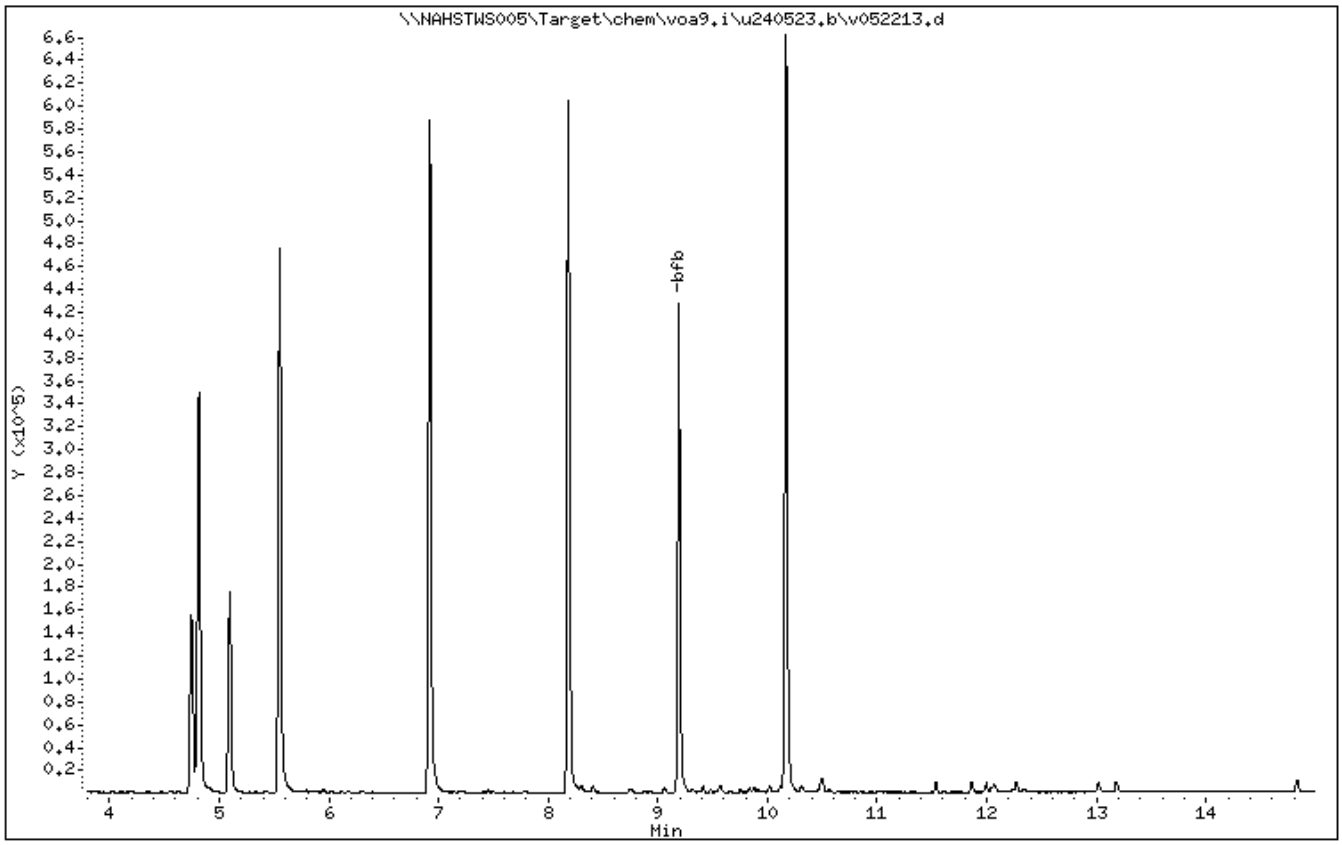
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Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa9.i\u240523.b\v052213.d
Inj Date : 23-MAY-2024 00:19
InstruID : VOA9.i
LabSampID : BFB

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052214.D Page 1
Report Date: 30-May-2024 15:52

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052214.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 23-MAY-2024 00:40
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240523.b\8260C.m
Meth Date : 30-May-2024 15:51 s.zaid Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 41 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	256774	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	59672	43.5593	43.55
3 Chloromethane	50	1.291	1.291	(0.268)	192742	40.3428	40.34
4 Propionitrile	54	4.332	4.332	(0.900)	132887	517.220	517.21
5 Vinyl Chloride	62	1.374	1.374	(0.286)	98648	42.4217	42.42
6 Bromomethane	94	1.614	1.614	(0.335)	42052	59.9217	59.92(M)
7 Chloroethane	64	1.696	1.696	(0.353)	67224	41.0051	41.00
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	117689	44.3426	44.34
9 Acrolein	56	2.262	2.262	(0.470)	8561	88.9912	88.99
10 Acetone	43	2.405	2.405	(0.500)	65032	89.1559	89.15
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	69327	42.9012	42.90
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	262424	975.790	975.79
13 Acetonitrile	39	2.667	2.667	(0.554)	91428	431.122	431.12
14 Allyl Chloride	41	2.667	2.667	(0.554)	222311	47.5574	47.55
15 Iodomethane	142	2.465	2.465	(0.512)	45807	136.814	136.81(R)
16 Acrylonitrile	53	3.061	3.061	(0.636)	64289	96.6548	96.65
17 Methylene Chloride	84	2.791	2.791	(0.580)	89327	47.1428	47.14
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	215952	49.0879	49.08
19 Carbon Disulfide	76	2.517	2.517	(0.523)	433825	88.7035	88.70
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	77197	41.6814	41.68

21 Vinyl Acetate	43	4.335	4.335 (0.901)	102908	95.7909	95.79
22 1,1-Dichloroethane	63	3.511	3.511 (0.730)	147412	46.6280	46.62

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	121286	42.8445	42.84
	24 2-Butanone	43	4.260	4.260	(0.885)	96483	89.8653	89.86
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	57364	47.4045	47.40(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	95496	42.1566	42.15
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	94608	42.5705	42.57
	28 Chloroform	83	4.571	4.571	(0.950)	153247	46.6993	46.69
	29 Bromochloromethane	128	4.467	4.467	(0.928)	46588	48.0571	48.05
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	80837	48.2575	48.25
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	117753	45.5007	45.50
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	114226	43.7729	43.77
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	119851	46.3491	46.34
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	94161	44.3980	44.39
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	97161	47.7548	47.75
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	369512	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	355683	46.7834	46.78
	38 Trichloroethene	130	5.786	5.786	(1.043)	89483	43.6889	43.68
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	103909	46.1851	46.18
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	29777	45.0602	45.06
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	72299	92.7846	92.78
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	94341	45.8455	45.84
	43 2-Nitropropane	43	6.506	6.506	(1.352)	19791	52.3230	52.32
	44 Dibromomethane	93	6.116	6.116	(1.102)	54058	42.4260	42.42
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	205245	90.2608	90.26
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	127163	49.0040	49.00
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	329651	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	299125	48.9458	48.94
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	123792	45.4121	45.41
	50 Toluene	91	6.978	6.978	(0.853)	367758	44.1426	44.14
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	103705	45.9063	45.90
	52 2-Hexanone	43	7.589	7.589	(0.928)	132702	87.1486	87.14
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	69294	47.4612	47.46
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	151595	48.2648	48.26
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	82603	51.1276	51.12
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	68649	43.7097	43.70
	57 1,2-Dibromoethane	107	7.780	7.780	(0.951)	81597	46.2805	46.28
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	74255	45.2616	45.26
	59 Chlorobenzene	112	8.208	8.208	(1.003)	231374	47.3351	47.33
	60 1,1,1,2-Tetrachloroethane	131	8.279	8.279	(1.012)	80698	46.9216	46.92
	61 Ethylbenzene	106	8.305	8.305	(1.015)	119800	44.8617	44.86
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	300390	91.6060	91.60
	63 o-Xylene	106	8.744	8.744	(1.069)	147141	45.8422	45.84
	64 Styrene	104	8.759	8.759	(1.071)	257090	47.2195	47.21
	66 Bromoform	173	8.916	8.916	(1.090)	51437	46.7164	46.71
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	370164	46.5053	46.50
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	116188	48.8473	48.84
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	112378	49.5838	49.58
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	175372	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	116429	48.0039	48.00
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	24309	45.5778	45.57
	73 n-Propylbenzene	91	9.407	9.407	(0.925)	428843	47.3461	47.34
	74 Bromobenzene	156	9.314	9.314	(0.916)	100354	43.5092	43.50
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	303955	48.6254	48.62

76	2-Chlorotoluene	91	9.478	9.478 (0.932)	261138	44.4940	44.49
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	303229	45.3659	45.36

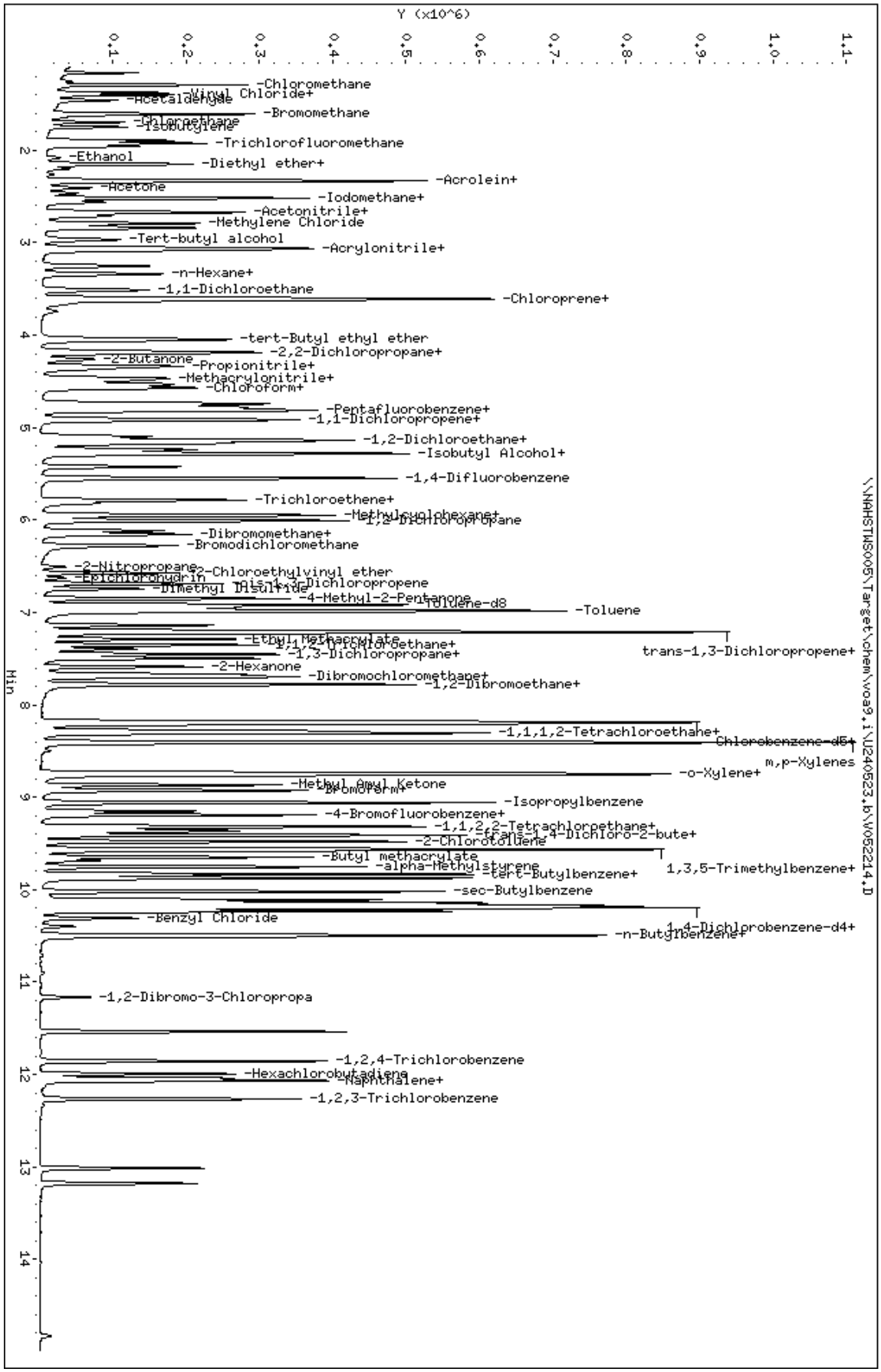
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	260301	47.4705	47.47
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	301186	46.9691	46.96
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	353775	48.5521	48.55
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	310891	49.0039	49.00
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	177998	48.0431	48.04
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	183767	47.6271	47.62
86	Benzyl Chloride	91	10.307	10.307	(1.260)	89470	42.8619	42.86
87	n-Butylbenzene	91	10.491	10.491	(1.032)	270503	46.2757	46.27
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	176176	48.3301	48.33
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	13988	47.0603	47.06
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	119999	45.5814	45.58
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	48550	45.7993	45.79
92	Naphthalene	128	12.065	12.065	(1.187)	277022	49.6057	49.60
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	109055	44.4865	44.48
146	Methyl acetate	43	2.708	2.708	(0.563)	96347	47.9929	47.99
138	Freon TF	101	2.333	2.333	(0.485)	128629	46.5222	46.52
141	Cyclohexane	56	4.781	4.781	(0.994)	131730	46.5436	46.54
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	33813	102.774	102.77
147	Methylcyclohexane	55	5.943	5.943	(1.071)	208816	47.0727	47.07
135	1,4-Dioxane	88	6.165	6.165	(1.281)	16722	890.906	890.90
132	n-Butanol	56	5.820	5.820	(1.210)	43068	890.505	890.50
136	n-Hexane	57	3.338	3.338	(0.694)	81430	44.3009	44.30
139	Diethyl ether	59	2.142	2.142	(0.445)	59003	48.3580	48.35
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	120514	1056.67	1056.66
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	94144	1015.00	1015.00
152	Amyl alcohol	42	7.394	7.394	(0.904)	46565	931.959	931.95
156	Diisopropyl ether	45	3.616	3.616	(0.751)	282898	47.9601	47.96
162	Butyl acrylate	55	8.729	8.729	(1.067)	158132	45.3553	45.35
187	n-Amyl acetate	43	8.927	8.927	(1.091)	153412	46.6806	46.68
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	379168	49.4423	49.44
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	287223	48.3048	48.30
167	Ethanol	45	2.079	2.079	(0.432)	18144	1012.61	1012.61
172	tert-Butyl formate	59	5.239	5.239	(1.089)	108746	97.1373	97.13
173	3,3-Dimethyl-1-butanol	57	7.777	7.777	(0.951)	178917	1020.80	1020.80
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	255340	44.9634	44.96
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	255428	44.7481	44.74
176	tert-Amyl alcohol	59	5.239	5.239	(1.089)	108746	955.730	955.72
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	514919	931.875	931.87
140	1,3-Butadiene	54	1.400	1.400	(0.291)	46335	45.6715	45.67
182	Epichlorohydrin	57	6.629	6.629	(1.195)	23633	199.194	199.19
M 94	1,2-Dichloroethylene (total)	96				171805	84.3327	84.33
M 95	Xylenes (total)	106				447531	135.752	135.75
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	125019	48.6605	48.66
130	Ethyl Acetate	43	4.335	4.335	(0.901)	102908	47.9401	47.94
131	Methyl Acrylate	55	4.365	4.365	(0.907)	106805	48.5323	48.53
189	n-Butyl acetate	43	7.702	7.702	(0.941)	149948	44.1175	44.11
134	Cyclohexanone	55	9.149	9.149	(0.900)	82981	883.288	883.28
185	Isoprene	39	2.154	2.154	(0.448)	19937	45.6770	45.67
188	Isopropyl acetate	43	5.280	5.280	(0.951)	262618	49.1593	49.15
150	Allyl alcohol	57	3.338	3.338	(0.694)	81430	886.019	886.01
194	Acetaldehyde	44	1.456	1.456	(0.303)	62845	181.573	181.57(M)
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	181078	43.8085	43.80

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	54766	47.9378	47.93
202 Isobutylene	41	1.749	1.749 (0.364)	28670	45.6668	45.66(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
133 Ethyl Acrylate	55	5.943	5.943	(1.235)	208816	46.1239	46.12
163 Butyl methacrylate	41	9.647	9.647	(0.949)	94541	48.2574	48.25
159 Propylene oxide	43	2.199	2.199	(0.457)	14328	105.820	105.81
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	84876	49.5540	49.55

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240523.b\V052214.D
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Client ID: VSTD050
Sample Info: VSTD050
Purge Volume: 5.0
Column phase: DB624

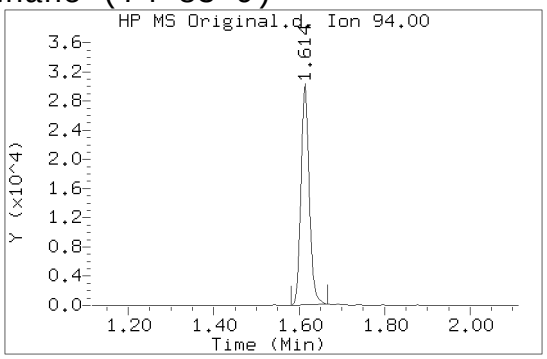
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Operator: FT
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LabSampID : VSTD050

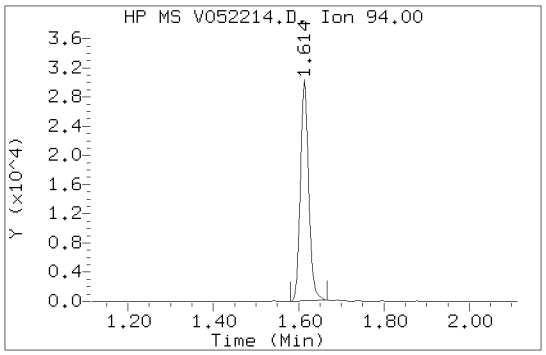
Bromomethane (74-83-9)

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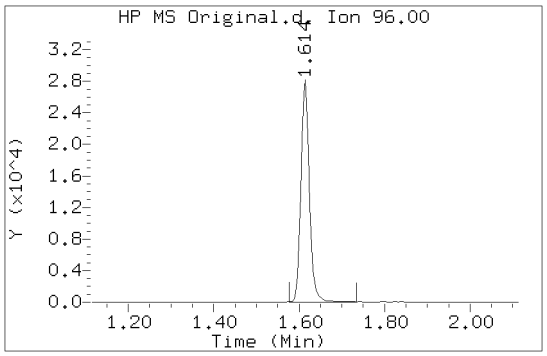
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tastan



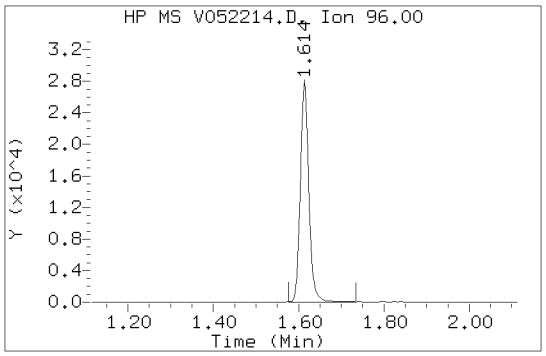
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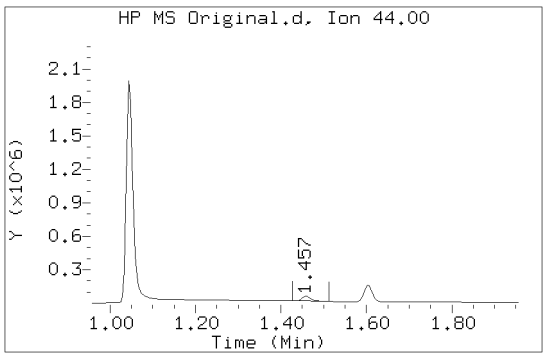
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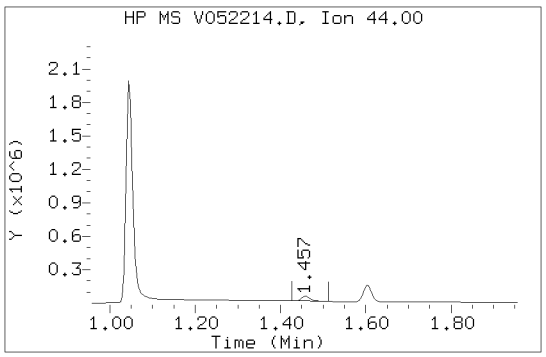
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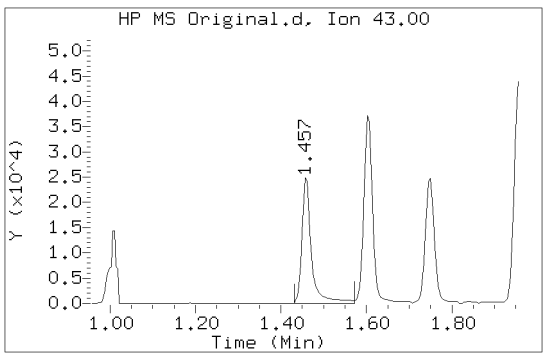
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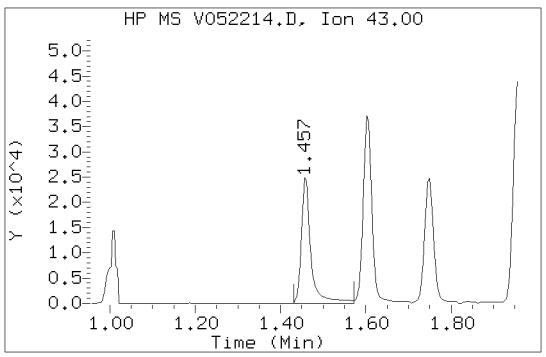
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BEFORE
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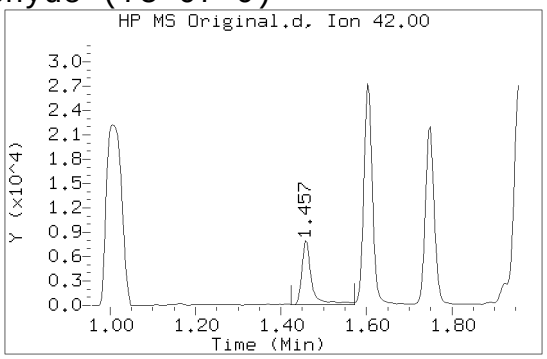


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LabSampID : VSTD050

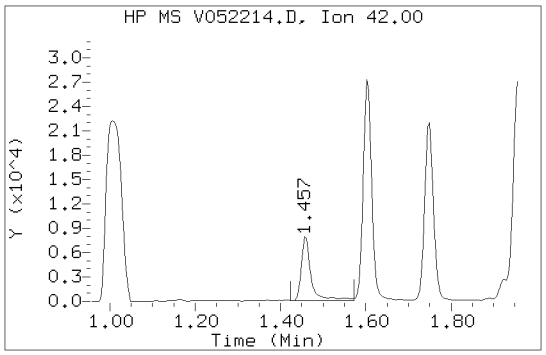
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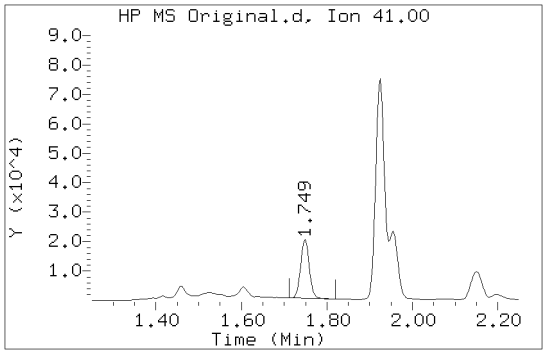
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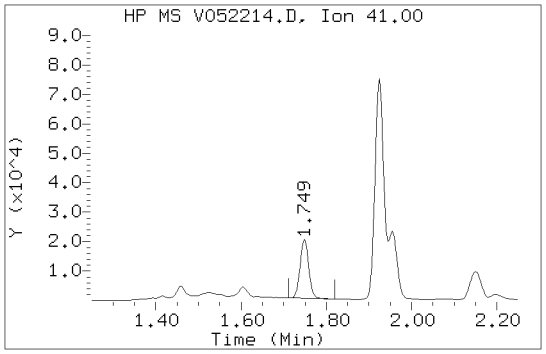
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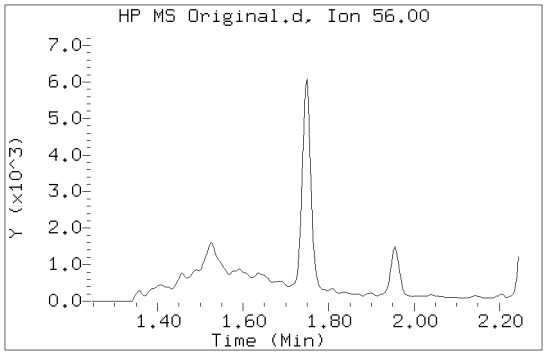
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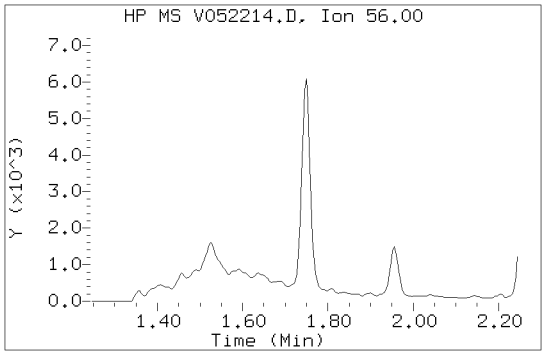
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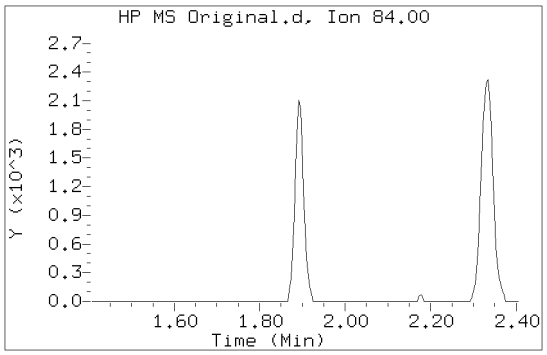
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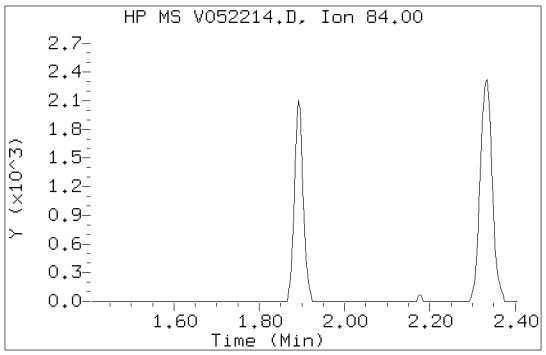
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tastan



AFTER
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AREA
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HEIGHT
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30-May-2024
15:52
firat



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24051277

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

06/21/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052401.D Page 1
Report Date: 24-May-2024 12:55

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-MAY-2024 12:08
Operator : FT Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	81928			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	14963			15.00- 40.00	18.26
9.194	9.180	(0.000)	75	38416			30.00- 60.00	46.89
9.194	9.180	(0.000)	96	5291			5.00- 9.00	6.46
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	72760			50.00- 0.00	88.81
9.194	9.180	(0.000)	175	6328			5.00- 9.00	8.70
9.194	9.180	(0.000)	176	71552			95.00- 101.00	98.34
9.194	9.180	(0.000)	177	4870			5.00- 9.00	6.81

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.26
75	30.00 - 60.00% of mass 95	46.89
96	5.00 - 9.00% of mass 95	6.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	88.81
175	5.00 - 9.00% of mass 174	7.72 (8.70)
176	95.00 - 101.00% of mass 174	87.34 (98.34)
177	5.00 - 9.00% of mass 176	5.94 (6.81)

Data File: U052401.D
Spectrum: Scan 2295 (9.19)
Location of Maximum: 95.05
Number of points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	754	62.00	3572	92.00	2194	134.80	165
37.00	3736	63.00	2786	93.00	3760	136.90	105
38.00	3518	64.00	314	94.10	9557	139.70	79
39.00	1483	65.00	396	95.00	81928	140.90	824
40.00	218	66.00	91	96.00	5291	141.90	120
41.90	53	68.00	7953	97.00	168	143.00	881
43.00	159	69.00	8258	103.90	320	144.80	142
44.00	621	70.00	682	105.00	135	145.80	126
45.00	661	72.00	515	105.80	285	147.90	193
45.70	77	73.00	3437	106.70	104	149.90	79
47.00	1298	74.00	12731	109.90	72	152.70	58
48.10	518	75.00	38416	110.90	64	154.00	91
49.00	3069	76.00	3337	111.80	55	154.90	185
50.00	14963	76.90	550	112.90	91	156.90	169
51.00	4802	78.00	305	114.90	97	158.90	131
52.00	184	78.90	2035	115.90	356	160.80	82
52.80	53	79.90	685	116.90	484	171.90	637
54.10	63	80.90	2082	117.80	291	173.90	72760
55.00	174	81.90	445	118.80	395	175.00	6328
56.00	1210	82.90	70	123.80	82	175.90	71552
57.00	1830	86.00	205	127.90	349	176.90	4870
57.90	128	86.90	3504	129.00	125	177.80	136
60.00	840	87.90	3255	129.90	300		
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Data File: \\NAHSTWS005\Target\chem\voa9.i\u240524.b\u052401.d Page 1

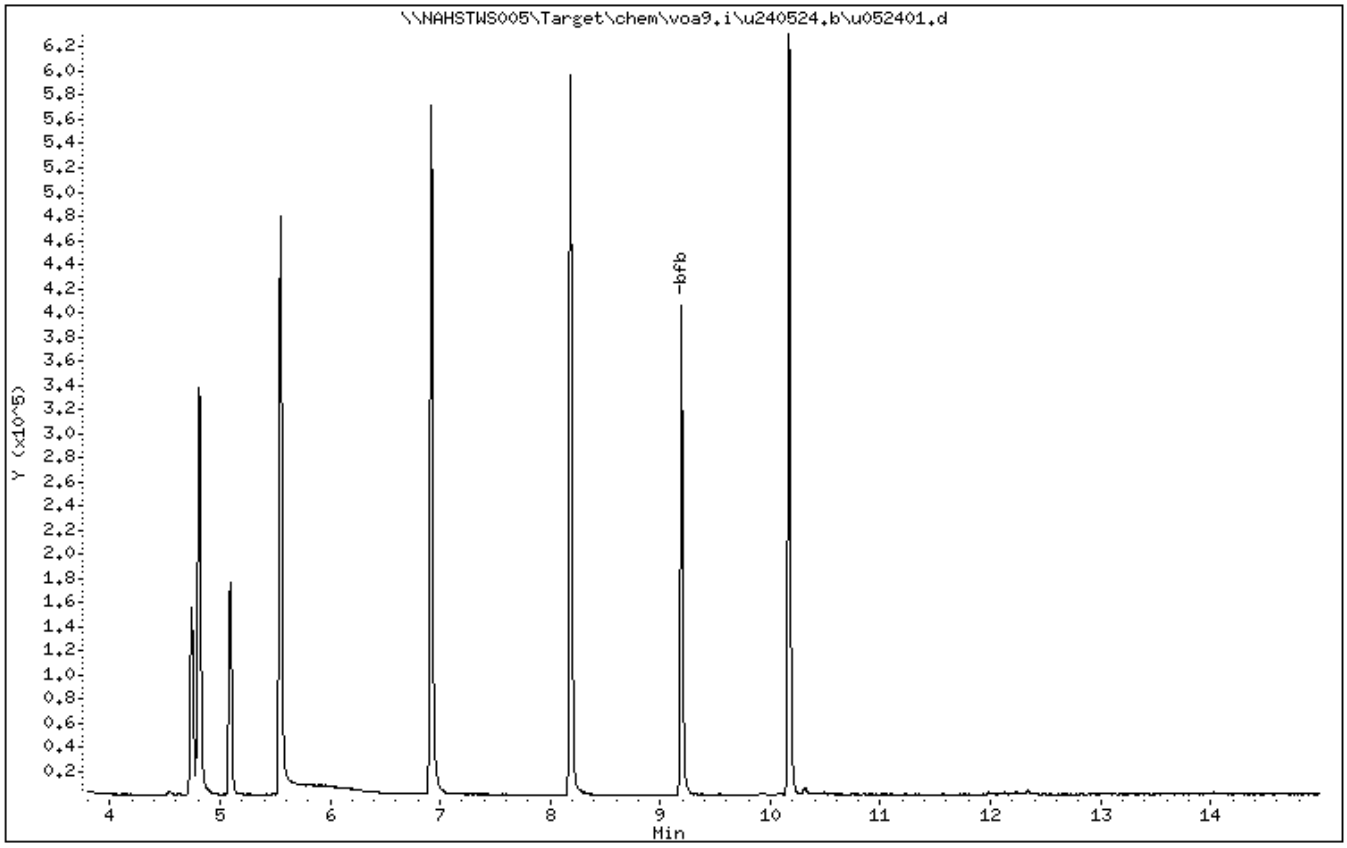
Date : 24-MAY-2024 12:08

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File : \\nahstws005\target\chem\voa9.i\u240524.b\u052401.d
Inj Date : 24-MAY-2024 12:08
InstruID : VOA9.i
LabSampID : BFB

 NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052402A.D Page 1
Report Date: 24-May-2024 15:17

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052402A.D
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Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 24-May-2024 13:09 firat.tast Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	250537	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	62890	50.0000	47.05
3 Chloromethane	50	1.299	1.299	(0.270)	207307	50.0000	44.83
4 Propionitrile	54	4.339	4.339	(0.901)	132170	500.000	526.87
5 Vinyl Chloride	62	1.381	1.381	(0.287)	98276	50.0000	43.31
6 Bromomethane	94	1.610	1.610	(0.334)	36114	50.0000	52.43
7 Chloroethane	64	1.696	1.696	(0.352)	66509	50.0000	41.57
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	118346	50.0000	45.70
9 Acrolein	56	2.266	2.266	(0.471)	8434	100.000	89.90
10 Acetone	43	2.412	2.412	(0.501)	72518	100.000	102.95
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	68047	50.0000	43.15
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	267377	1000.00	1017.24
13 Acetonitrile	39	2.675	2.675	(0.556)	83639	500.000	404.21(M)
14 Allyl Chloride	41	2.675	2.675	(0.556)	207080	50.0000	45.41
15 Iodomethane	142	2.469	2.469	(0.513)	29106	100.000	94.19
16 Acrylonitrile	53	3.068	3.068	(0.637)	62467	100.000	96.25
17 Methylene Chloride	84	2.795	2.795	(0.580)	88397	50.0000	47.83
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	195401	50.0000	45.54
19 Carbon Disulfide	76	2.521	2.521	(0.524)	418007	100.000	87.59
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	76587	50.0000	42.38

21 Vinyl Acetate	43	4.343	4.343 (0.902)	108108	100.000	103.07
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	144761	50.0000	46.92

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	120639	50.0000	43.67
	24 2-Butanone	43	4.268	4.268	(0.886)	106229	100.000	101.43
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	55210	50.0000	46.77(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	102954	50.0000	46.58
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	92430	50.0000	42.62
	28 Chloroform	83	4.575	4.575	(0.950)	151655	50.0000	47.36
	29 Bromochloromethane	128	4.470	4.470	(0.928)	46357	50.0000	49.01
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	91811	50.0000	56.13
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	117598	50.0000	46.57
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	112182	50.0000	44.06
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	120564	50.0000	47.80
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	94786	50.0000	45.81
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	110632	50.0000	55.81
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	360480	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	351681	50.0000	47.41
	38 Trichloroethene	130	5.786	5.786	(1.042)	87604	50.0000	43.84
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	102020	50.0000	46.48
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	32026	50.0000	49.51
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	70813	100.000	93.13
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	95435	50.0000	47.54
	43 2-Nitropropane	43	6.510	6.510	(1.352)	19699	50.0000	53.28
	44 Dibromomethane	93	6.120	6.120	(1.102)	55525	50.0000	44.66
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	218589	100.000	97.06
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	128621	50.0000	50.80
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	326475	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	359087	50.0000	59.32
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	116981	50.0000	43.98
	50 Toluene	91	6.978	6.978	(0.853)	366759	50.0000	44.45
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	105438	50.0000	47.73
	52 2-Hexanone	43	7.589	7.589	(0.927)	141435	100.000	93.78
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	70762	50.0000	48.95
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	151187	50.0000	48.60
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	80391	50.0000	50.24
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	70788	50.0000	45.51
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	82974	50.0000	47.51
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	75505	50.0000	47.18
	59 Chlorobenzene	112	8.208	8.208	(1.003)	232148	50.0000	47.96
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	78784	50.0000	46.25
	61 Ethylbenzene	106	8.305	8.305	(1.015)	118024	50.0000	44.62
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	300052	100.000	92.39
	63 o-Xylene	106	8.744	8.744	(1.068)	146833	50.0000	46.19
	64 Styrene	104	8.759	8.759	(1.070)	256373	50.0000	47.54
	66 Bromoform	173	8.916	8.916	(1.089)	49391	50.0000	45.39
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	367787	50.0000	46.65
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	121638	50.0000	50.59
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	132537	50.0000	59.11
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	177240	50.0000	
	71 1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	121590	50.0000	49.56
	72 trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.145)	25827	50.0000	48.77
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	433395	50.0000	47.34
	74 Bromobenzene	156	9.317	9.317	(0.916)	100593	50.0000	43.15
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	304747	50.0000	48.23

76	2-Chlorotoluene	91	9.482	9.482 (0.933)	259471	50.0000	43.74
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	303203	50.0000	44.88

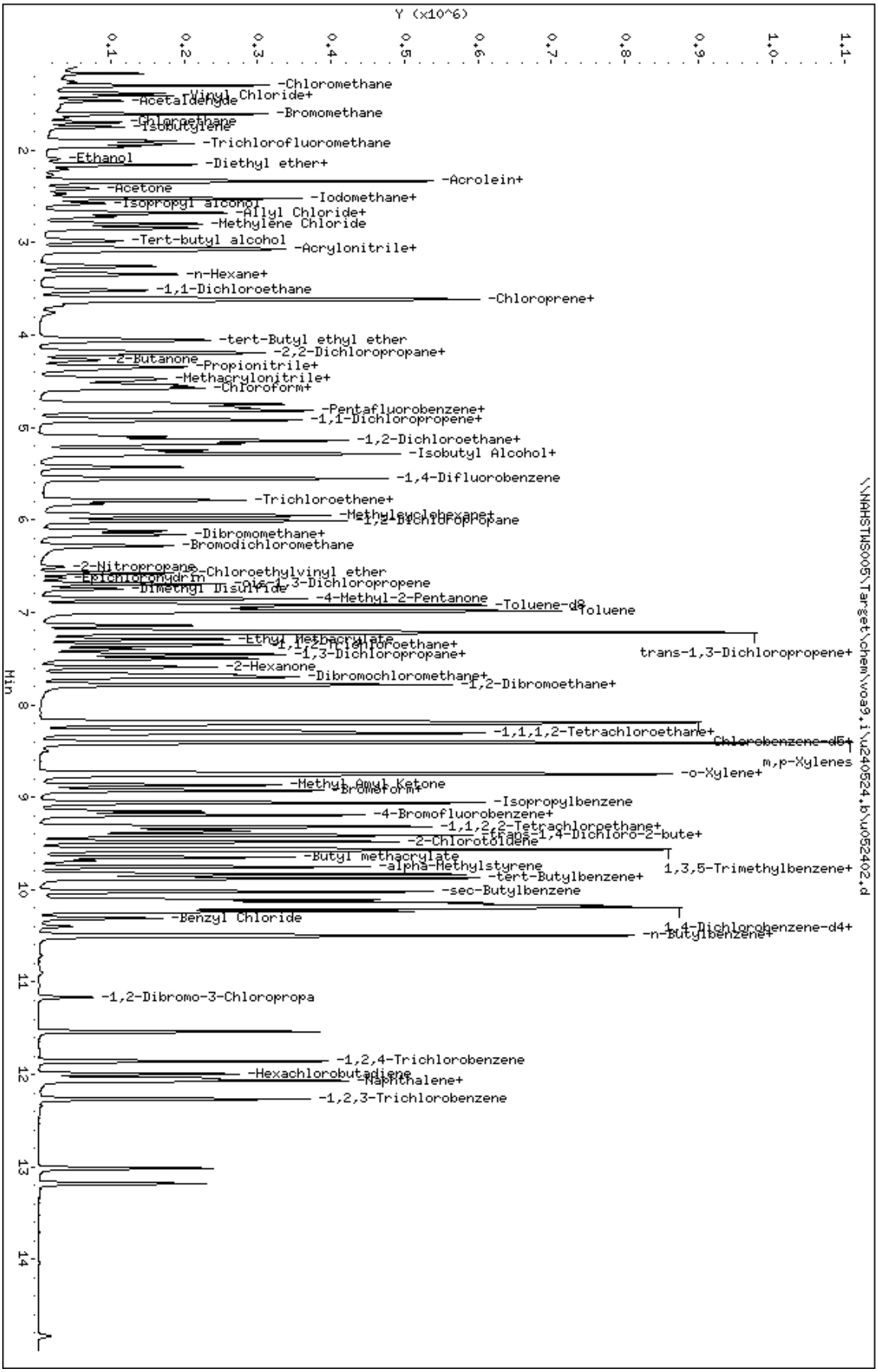
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	259976	50.0000	46.91
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	303704	50.0000	46.86
81	sec-Butylbenzene	105	10.022	10.022	(0.986)	350132	50.0000	47.54
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	312678	50.0000	48.76
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	181642	50.0000	48.50
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	190417	50.0000	48.83
86	Benzyl Chloride	91	10.311	10.311	(1.260)	106155	50.0000	50.91
87	n-Butylbenzene	91	10.491	10.491	(1.032)	276410	50.0000	46.77
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	178607	50.0000	48.48
89	1,2-Dibromo-3-Chloropropane	155	11.166	11.166	(1.098)	14427	50.0000	47.96
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	117772	50.0000	44.26
91	Hexachlorobutadiene	225	11.998	11.998	(1.180)	50367	50.0000	46.99
92	Naphthalene	128	12.065	12.065	(1.187)	291384	50.0000	51.62
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	111254	50.0000	44.90
146	Methyl acetate	43	2.716	2.716	(0.564)	105014	50.0000	53.70
138	Freon TF	101	2.337	2.337	(0.485)	129586	50.0000	48.03
141	Cyclohexane	56	4.782	4.782	(0.993)	132377	50.0000	47.96
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	32532	100.000	101.37
147	Methylcyclohexane	55	5.947	5.947	(1.071)	204207	50.0000	47.18
135	1,4-Dioxane	88	6.169	6.169	(1.281)	16459	1000.00	898.68
132	n-Butanol	56	5.824	5.824	(1.209)	44088	1000.00	934.28
136	n-Hexane	57	3.342	3.342	(0.694)	90927	50.0000	50.59
139	Diethyl ether	59	2.150	2.150	(0.447)	54072	50.0000	45.44
148	Tert-butyl alcohol	59	2.978	2.978	(0.619)	123350	1000.00	1105.73
149	Isopropyl alcohol	45	2.574	2.574	(0.534)	96136	1000.00	1059.92
152	Amyl alcohol	42	7.398	7.398	(0.904)	50911	1000.00	1023.07
156	Diisopropyl ether	45	3.623	3.623	(0.752)	255747	50.0000	44.43
162	Butyl acrylate	55	8.733	8.733	(1.067)	150294	50.0000	43.52
187	n-Amyl acetate	43	8.928	8.928	(1.091)	159184	50.0000	48.83
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	345378	50.0000	44.61
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	266229	50.0000	44.30
167	Ethanol	45	2.094	2.094	(0.435)	18283	1000.00	1044.56
172	tert-Butyl formate	59	5.246	5.246	(1.090)	132983	100.000	119.21
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	191398	1000.00	1097.46
174	tert-Amyl methyl ether	73	5.288	5.288	(1.098)	238188	50.0000	42.98
175	tert-Butyl ethyl ether	59	4.054	4.054	(0.842)	226989	50.0000	40.75
176	tert-Amyl alcohol	59	5.246	5.246	(1.090)	132983	1000.00	1176.73
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	540542	1000.00	1002.75
140	1,3-Butadiene	54	1.408	1.408	(0.292)	46437	50.0000	46.91
182	Epichlorohydrin	57	6.630	6.630	(1.194)	24361	200.000	209.75
M 94	1,2-Dichloroethylene (total)	96				169017	100.000	85.02
M 95	Xylenes (total)	106				446885	150.000	138.95
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	123401	50.0000	47.52
130	Ethyl Acetate	43	4.343	4.343	(0.902)	108108	50.0000	51.58
131	Methyl Acrylate	55	4.373	4.373	(0.908)	102694	50.0000	47.83
189	n-Butyl acetate	43	7.706	7.706	(0.941)	156964	50.0000	46.63
134	Cyclohexanone	55	9.153	9.153	(0.900)	86411	1000.00	910.29
185	Isoprene	39	2.157	2.157	(0.448)	20047	50.0000	47.07
188	Isopropyl acetate	43	5.284	5.284	(0.951)	268876	50.0000	51.49
150	Allyl alcohol	57	3.342	3.342	(0.694)	90927	1000.00	1011.99
194	Acetaldehyde	44	1.464	1.464	(0.304)	68954	200.000	204.18(M)
195	Methyl Amyl Ketone	43	8.868	8.868	(1.083)	182055	50.0000	44.47

200 Dimethyl Disulfide	94	6.746	6.746 (0.824)	42597	50.0000	38.82
202 Isobutylene	41	1.749	1.749 (0.363)	28486	50.0000	46.47(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
133 Ethyl Acrylate	55	5.947	5.947	(1.235)	204207	50.0000	46.22
163 Butyl methacrylate	41	9.647	9.647	(0.949)	88746	50.0000	44.86
159 Propylene oxide	43	2.202	2.202	(0.457)	12013	100.000	90.82
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	81082	50.0000	47.10

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
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Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

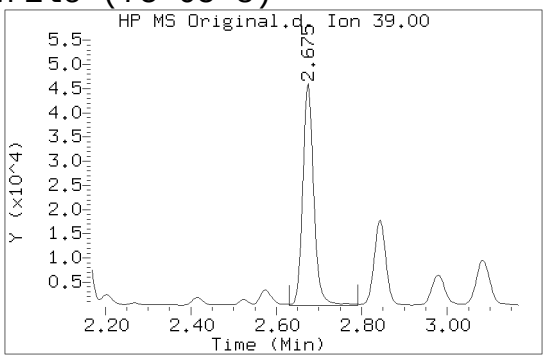
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LabSampID : VSTD050

Acetonitrile (75-05-8)

Reason Code:

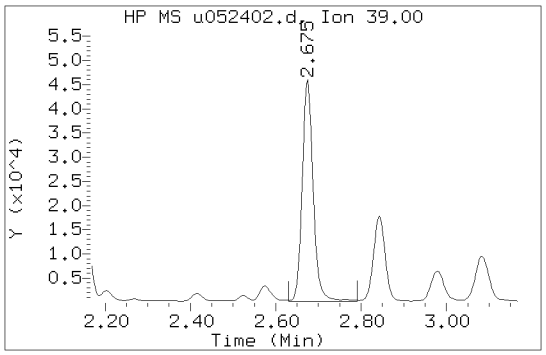
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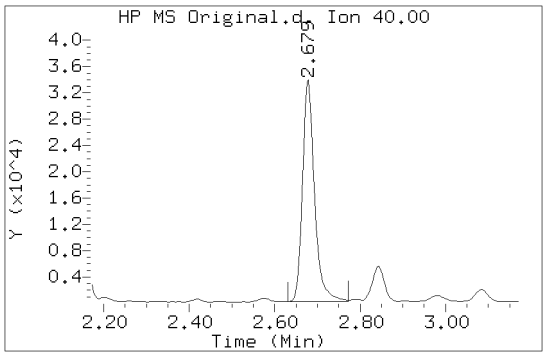
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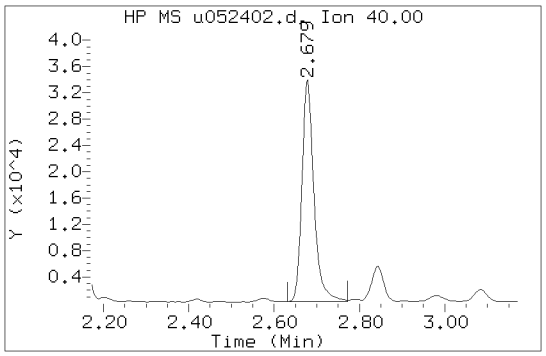
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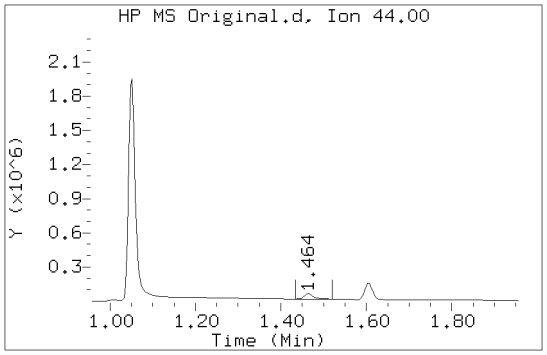


Acetaldehyde (75-07-0)

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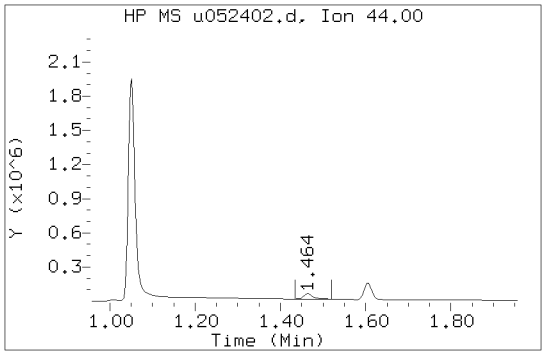
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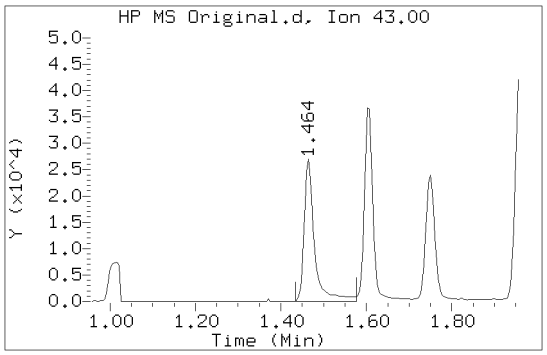
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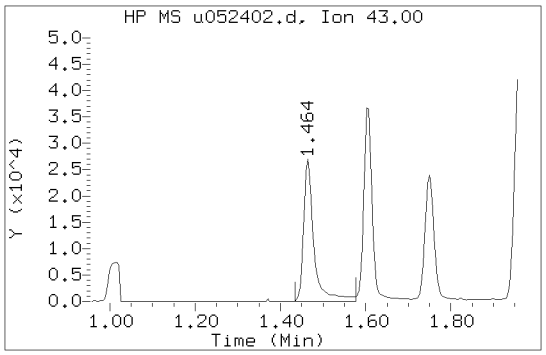
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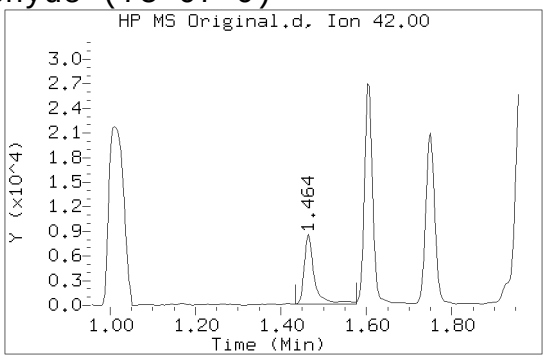
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LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

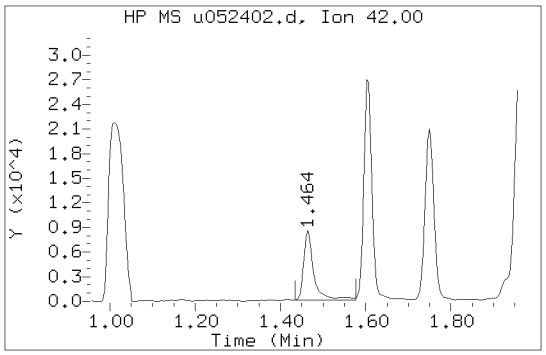
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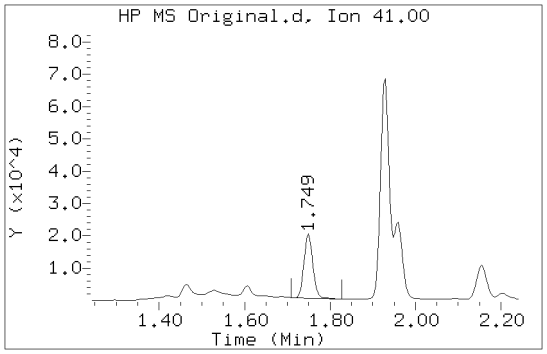


Isobutylene (115-11-7)

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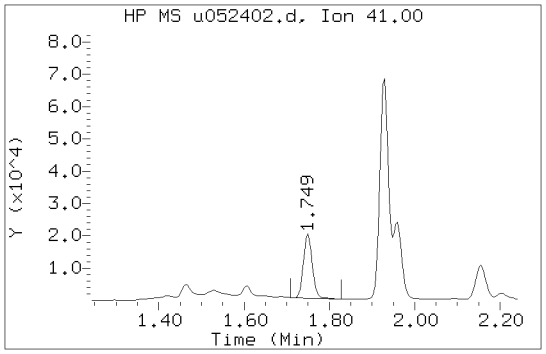
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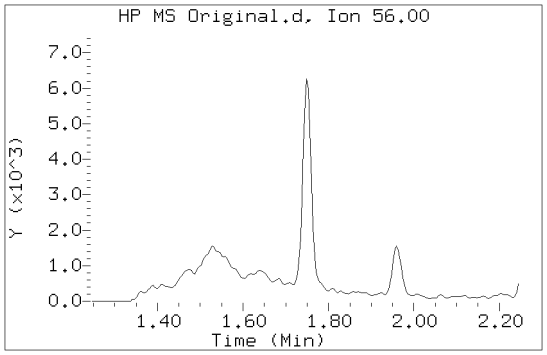
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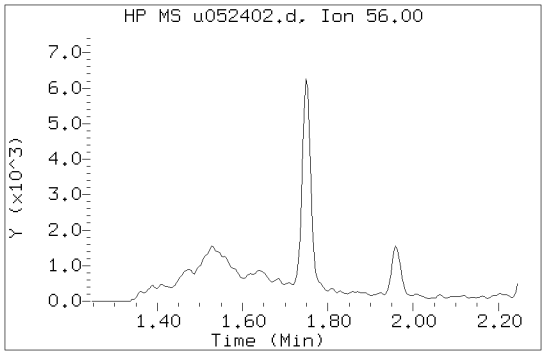
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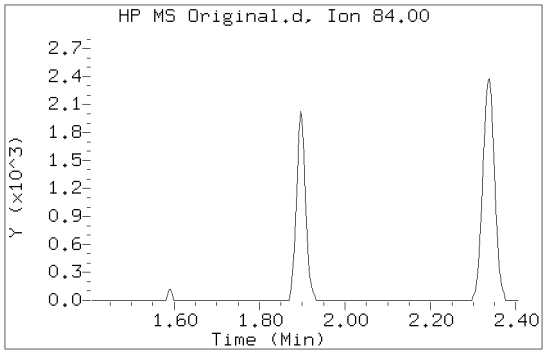
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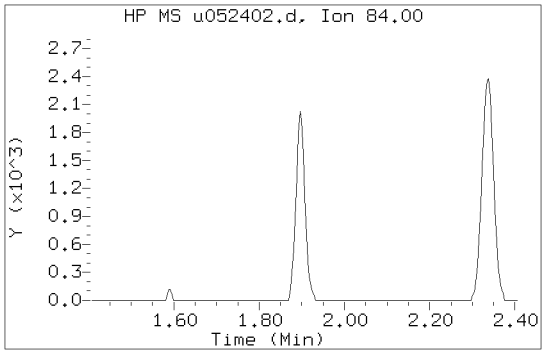
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AFTER

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24-May-2024
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Report Date: 28-May-2024 10:09

ALS Laboratory Group

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Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	248200	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	24760	18.6986	18.69
3 Chloromethane	50	1.291	1.291	(0.268)	90423	18.4688	18.46
4 Propionitrile	54	4.335	4.335	(0.901)	56126	225.282	225.28(a)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	39630	17.6308	17.63
6 Bromomethane	94	1.602	1.602	(0.333)	15875	21.9371	21.93
7 Chloroethane	64	1.689	1.689	(0.351)	27644	17.4447	17.44
8 Trichlorofluoromethane	101	1.887	1.891	(0.392)	46367	18.0736	18.07
9 Acrolein	56	2.262	2.262	(0.470)	3752	38.0614	38.06
10 Acetone	43	2.408	2.408	(0.501)	34212	45.1419	45.14
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	26654	17.0639	17.06
12 Isobutyl Alcohol	43	5.284	5.280	(1.098)	106668	417.000	417.00(a)
13 Acetonitrile	39	2.667	2.667	(0.554)	34841	169.965	169.96(a)
14 Allyl Chloride	41	2.671	2.667	(0.555)	85604	18.9379	18.93(a)
15 Iodomethane	142	2.461	2.461	(0.512)	13514	47.0040	47.00
16 Acrylonitrile	53	3.064	3.061	(0.637)	26012	40.0498	40.04
17 Methylene Chloride	84	2.791	2.791	(0.580)	37881	19.6881	19.68
18 Methyl tert-butyl ether	73	3.079	3.079	(0.640)	82164	19.2642	19.26
19 Carbon Disulfide	76	2.513	2.517	(0.522)	163938	34.6781	34.67
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	30994	17.3129	17.31

21 Vinyl Acetate	43	4.339	4.339 (0.902)	43073	41.5673	41.56
22 1,1-Dichloroethane	63	3.507	3.511 (0.729)	59277	19.2511	19.25

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052403.D Page 2
Report Date: 28-May-2024 10:09

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	48387	17.6833	17.68
	24 2-Butanone	43	4.264	4.260	(0.886)	42129	40.6701	40.67
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	20872	18.1966	18.19(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	39213	17.9085	17.90
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	37226	17.3291	17.32
	28 Chloroform	83	4.571	4.568	(0.950)	61337	19.2488	19.24
	29 Bromochloromethane	128	4.466	4.466	(0.928)	18475	19.5138	19.51
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	89467	55.2243	55.22
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	45667	18.2557	18.25
	32 1,1-Dichloropropene	75	4.920	4.916	(0.887)	45660	17.9749	17.97
	33 1,2-Dichloroethane	62	5.175	5.171	(0.932)	49112	19.3349	19.33
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	35980	17.4278	17.42
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.059)	108475	55.2374	55.23
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	359699	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	142238	19.1791	19.17
	38 Trichloroethene	130	5.786	5.786	(1.043)	36004	18.0580	18.05
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	38440	17.5518	17.55
	40 Methyl Methacrylate	41	5.827	5.824	(1.211)	13466	21.4505	21.45(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	25582	36.2496	36.24
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	39120	19.4497	19.44
	43 2-Nitropropane	43	6.506	6.506	(1.352)	7092	20.2018	20.20
	44 Dibromomethane	93	6.116	6.116	(1.102)	22685	18.2894	18.28
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	83660	38.0811	38.08
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	46408	18.3718	18.37
*	47 Chlorobenzene-d5	117	8.185	8.181	(1.000)	318485	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	327208	55.4231	55.42(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	46921	17.6822	17.68(a)
	50 Toluene	91	6.978	6.978	(0.853)	148576	18.4591	18.45
	51 trans-1,3-Dichloropropene	75	7.195	7.196	(1.297)	37082	18.0673	18.06
	52 2-Hexanone	43	7.589	7.589	(0.927)	55693	37.8572	37.85
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	29415	20.5898	20.58
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	61432	20.1419	20.14
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	29084	18.6328	18.63
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	28803	18.9822	18.98
	57 1,2-Dibromoethane	107	7.784	7.780	(0.951)	33819	19.8541	19.85
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	30237	18.3793	18.37
	59 Chlorobenzene	112	8.208	8.208	(1.003)	95658	20.0170	20.01
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	30304	18.2379	18.23
	61 Ethylbenzene	106	8.305	8.305	(1.015)	46828	18.1506	18.15
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	119531	37.7298	37.72
	63 o-Xylene	106	8.747	8.744	(1.069)	58710	18.9326	18.93
	64 Styrene	104	8.759	8.759	(1.070)	100320	19.0717	19.07
	66 Bromoform	173	8.916	8.916	(1.089)	16935	17.3657	17.36
	67 Isopropylbenzene	105	9.059	9.059	(1.107)	146174	19.0083	19.00
	68 1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	47464	20.9335	20.93
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	124616	56.9642	56.96(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	167134	50.0000	
	71 1,2,3-Trichloropropane	75	9.358	9.359	(0.920)	46409	20.4775	20.47
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	9839	19.5763	19.57(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	172811	20.0195	20.01
	74 Bromobenzene	156	9.317	9.317	(0.916)	40842	18.5801	18.58
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	118469	19.8863	19.88

76	2-Chlorotoluene	91	9.482	9.478 (0.933)	106084	18.9660	18.96
77	4-Chlorotoluene	91	9.576	9.572 (0.942)	122549	19.2382	19.23

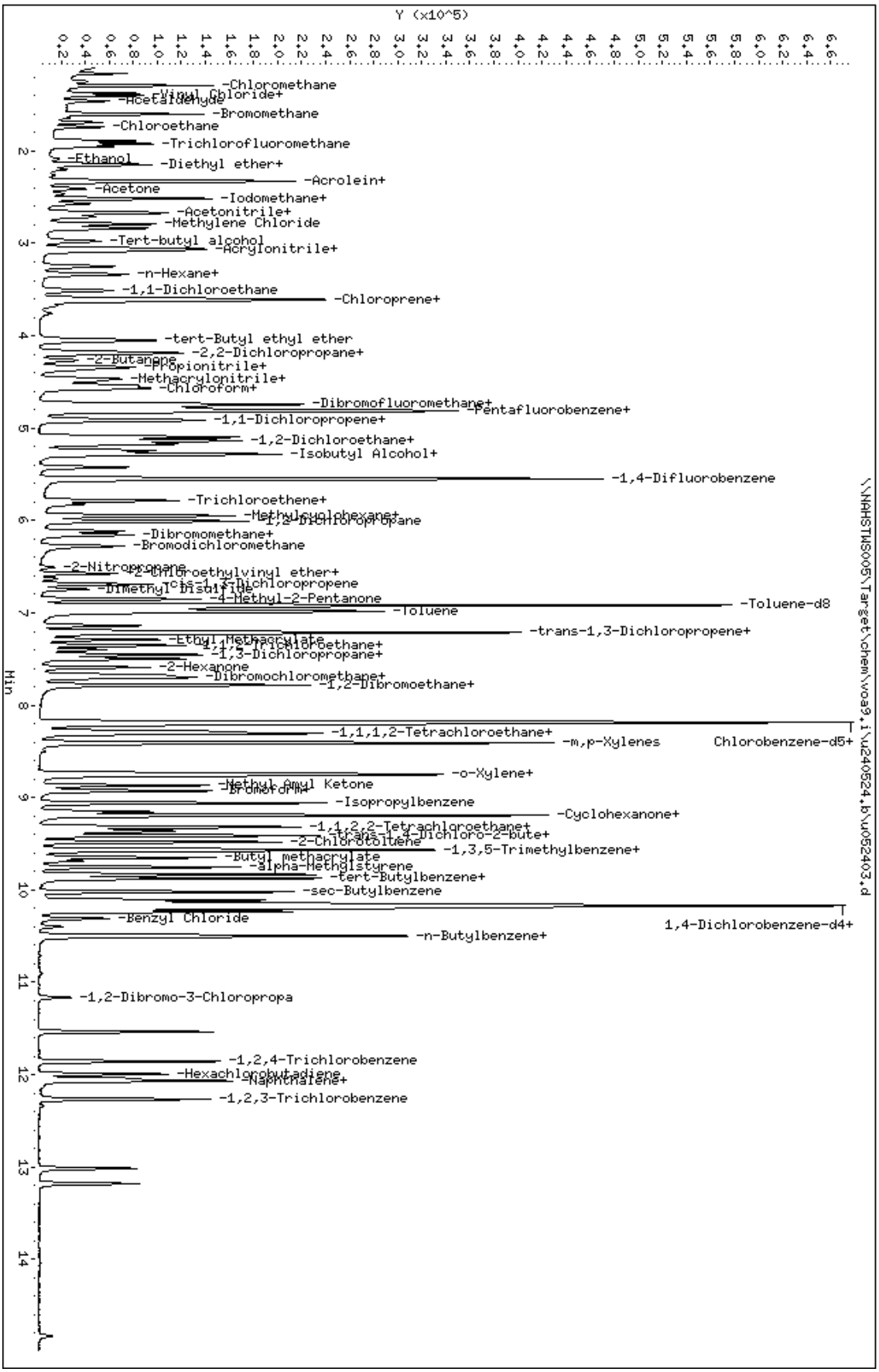
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	102992	19.7082	19.70
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	119199	19.5050	19.50
81	sec-Butylbenzene	105	10.022	10.018	(0.986)	136053	19.5922	19.59
82	p-Isopropyltoluene	119	10.146	10.146	(0.998)	119220	19.7182	19.71
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	72689	20.5512	20.55
84	1,4-Dichlorobenzene	146	10.191	10.187	(1.002)	76171	20.5332	20.53
86	Benzyl Chloride	91	10.311	10.311	(1.260)	38018	19.2397	19.23
87	n-Butylbenzene	91	10.491	10.491	(1.032)	104657	19.1587	19.15
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	72599	20.7830	20.78
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5124	19.2718	19.27
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	46504	18.5351	18.53
91	Hexachlorobutadiene	225	11.998	11.994	(1.180)	19888	19.9236	19.92
92	Naphthalene	128	12.065	12.065	(1.187)	111700	20.9877	20.98
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	44053	18.8562	18.85
146	Methyl acetate	43	2.712	2.712	(0.564)	42460	21.4370	21.43
138	Freon TF	101	2.330	2.330	(0.484)	50616	18.9390	18.93
141	Cyclohexane	56	4.778	4.781	(0.993)	53335	18.8125	18.81
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	14557	45.0762	45.07
147	Methylcyclohexane	55	5.943	5.943	(1.071)	80839	18.7204	18.72
135	1,4-Dioxane	88	6.168	6.165	(1.282)	7195	394.929	394.92
132	n-Butanol	56	5.823	5.824	(1.210)	18230	389.958	389.95(a)
136	n-Hexane	57	3.334	3.338	(0.693)	35183	19.9449	19.94
139	Diethyl ether	59	2.142	2.142	(0.445)	22614	19.1003	19.10
148	Tert-butyl alcohol	59	2.974	2.971	(0.618)	52896	481.293	481.29
149	Isopropyl alcohol	45	2.570	2.566	(0.534)	40199	450.415	450.41
152	Amyl alcohol	42	7.398	7.398	(0.904)	19748	426.592	426.59
156	Diisopropyl ether	45	3.619	3.619	(0.752)	109678	19.1380	19.13
162	Butyl acrylate	55	8.732	8.729	(1.067)	59256	17.5916	17.59
187	n-Amyl acetate	43	8.931	8.927	(1.091)	67181	21.5329	21.53
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	142649	19.5842	19.58
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	111812	19.7313	19.73
167	Ethanol	45	2.090	2.086	(0.434)	7542	430.604	430.60
172	tert-Butyl formate	59	5.242	5.239	(1.090)	53919	50.9505	50.95
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	79804	477.402	477.40
174	tert-Amyl methyl ether	73	5.284	5.284	(1.098)	101376	18.4682	18.46
175	tert-Butyl ethyl ether	59	4.047	4.047	(0.841)	94615	17.1481	17.14
176	tert-Amyl alcohol	59	5.242	5.239	(1.090)	53919	500.212	500.21
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	214415	398.624	398.62
140	1,3-Butadiene	54	1.400	1.400	(0.291)	17961	18.3154	18.31
182	Epichlorohydrin	57	6.629	6.629	(1.195)	9742	86.1146	86.11
M 94	1,2-Dichloroethylene (total)	96				68220	34.6435	34.64
M 95	Xylenes (total)	106				178241	55.5417	55.54
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	46868	19.1414	19.14
130	Ethyl Acetate	43	4.339	4.339	(0.902)	43073	20.8249	20.82
131	Methyl Acrylate	55	4.369	4.365	(0.908)	43003	20.4278	20.42
189	n-Butyl acetate	43	7.705	7.702	(0.941)	59303	18.0598	18.05
134	Cyclohexanone	55	9.152	9.152	(0.900)	38387	428.603	428.60(a)
185	Isoprene	39	2.150	2.154	(0.447)	7878	18.6725	18.67
188	Isopropyl acetate	43	5.284	5.280	(0.952)	106710	20.8765	20.87
150	Allyl alcohol	57	3.334	3.338	(0.693)	35183	398.899	398.89
194	Acetaldehyde	44	1.456	1.456	(0.303)	69714	208.377	208.37
195	Methyl Amyl Ketone	43	8.867	8.864	(1.083)	78407	19.6342	19.63

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	14542	15.5745	15.57
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	80839	18.4728	18.47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	43771	23.2909	23.29
159 Propylene oxide	43	2.198	2.199	(0.457)	4776	36.0275	36.02
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	28698	19.1991	19.19

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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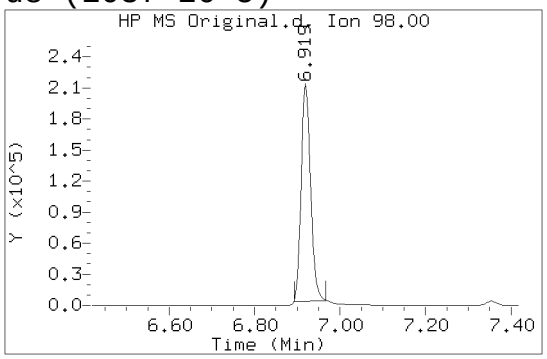
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Operator: FT
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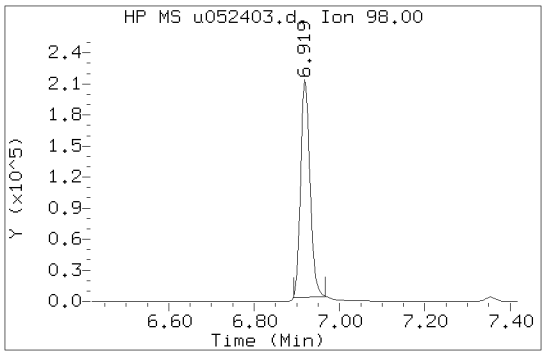
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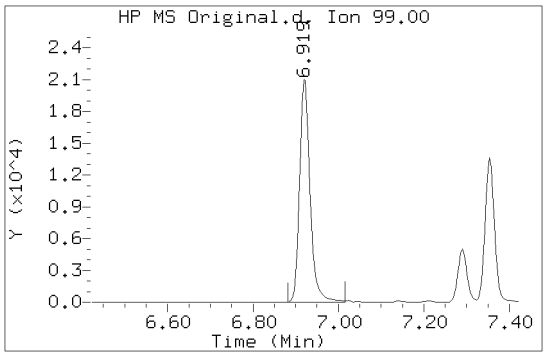
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28-May-2024
10:09
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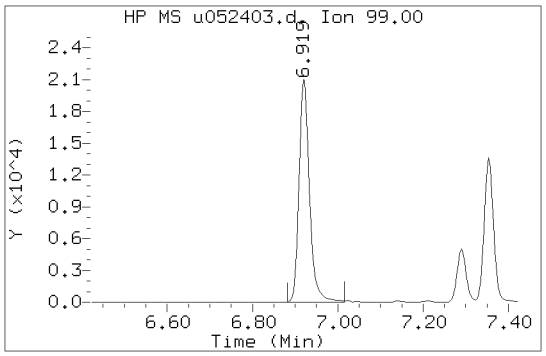
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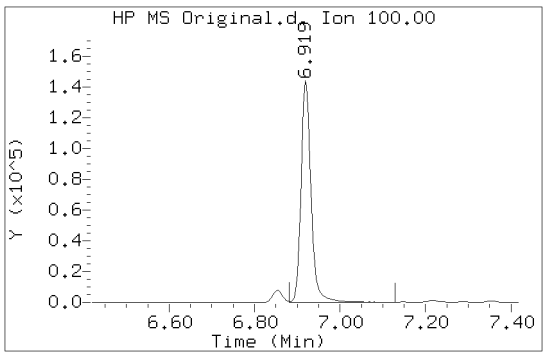
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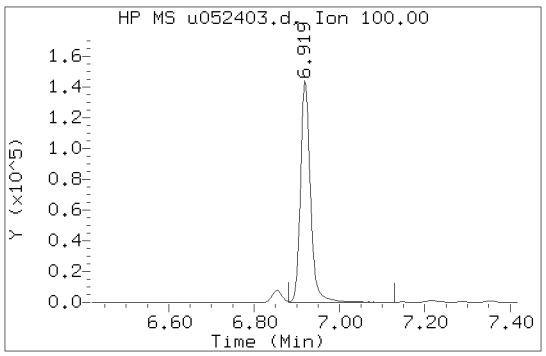
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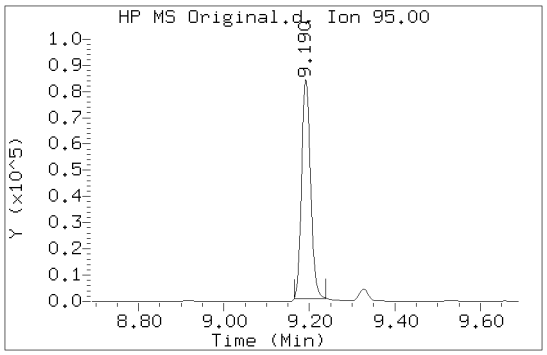
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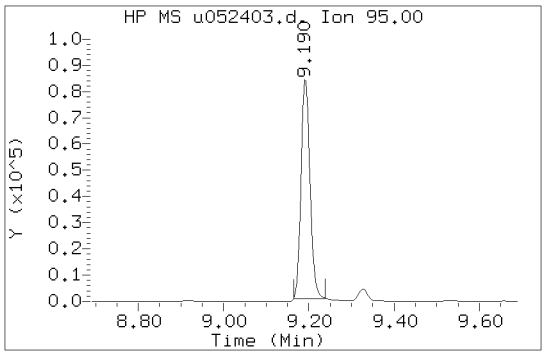
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Reason Code: MPT

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28-May-2024
10:09
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AFTER
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28-May-2024
10:09
tianna
smith



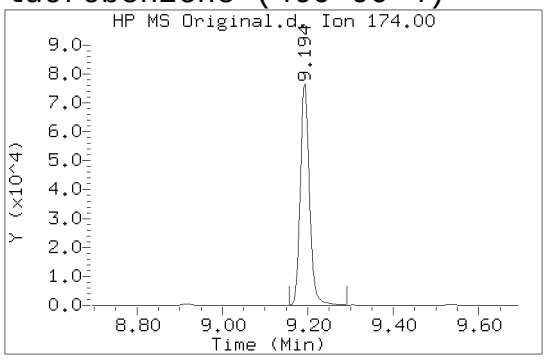
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4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

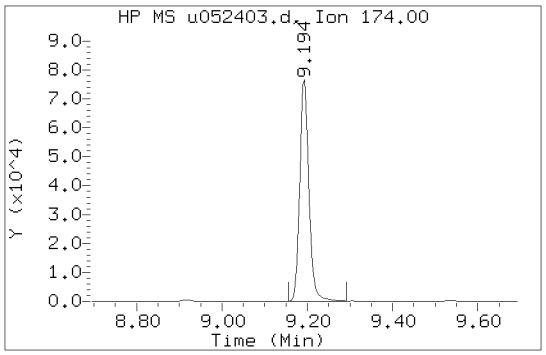
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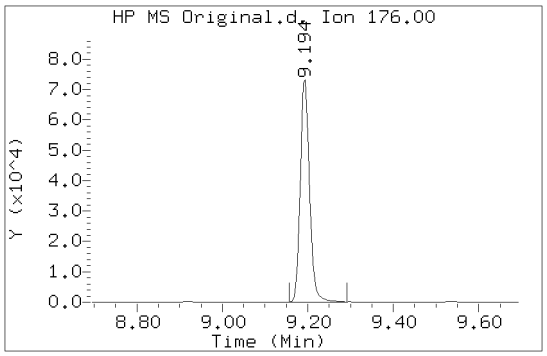
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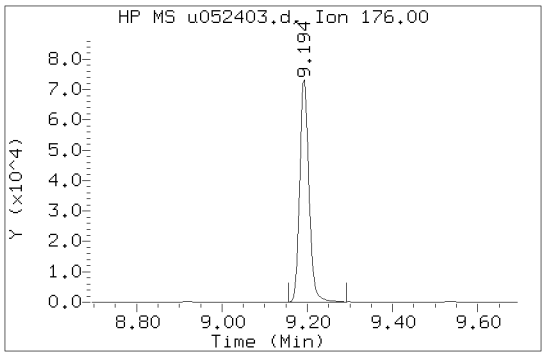
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AFTER

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Report Date: 28-May-2024 10:11

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240524.b\U052404.D
Lab Smp Id: VLCSDW-240524 Client Smp ID: VLCSDW-240524
Inj Date : 24-MAY-2024 13:35
Operator : FT Inst ID: VOA9.i
Smp Info : VLCSDW-240524;VLCSDW-240524;3;;LCSD
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 25-May-2024 10:36 firat.tast Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	247860	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.160	(0.240)	23538	17.8002	17.80
3 Chloromethane	50	1.287	1.291	(0.268)	87729	17.8982	17.89
4 Propionitrile	54	4.331	4.335	(0.900)	54569	219.070	219.07(a)
5 Vinyl Chloride	62	1.370	1.374	(0.285)	39063	17.4024	17.40
6 Bromomethane	94	1.598	1.602	(0.332)	15536	21.4511	21.45
7 Chloroethane	64	1.685	1.689	(0.350)	26811	16.9423	16.94
8 Trichlorofluoromethane	101	1.883	1.891	(0.392)	45341	17.6979	17.69
9 Acrolein	56	2.258	2.262	(0.469)	3785	38.4873	38.48
10 Acetone	43	2.404	2.408	(0.500)	34248	45.2693	45.26
11 1,1-Dichloroethene	96	2.322	2.326	(0.483)	26159	16.7700	16.76
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	104266	408.184	408.18(a)
13 Acetonitrile	39	2.663	2.667	(0.554)	33938	165.787	165.78(a)
14 Allyl Chloride	41	2.663	2.667	(0.554)	84210	18.6525	18.65(a)
15 Iodomethane	142	2.457	2.461	(0.511)	13771	47.8970	47.89
16 Acrylonitrile	53	3.060	3.061	(0.636)	26245	40.4742	40.47
17 Methylene Chloride	84	2.787	2.791	(0.579)	37031	19.2346	19.23
18 Methyl tert-butyl ether	73	3.072	3.079	(0.638)	82802	19.4431	19.44
19 Carbon Disulfide	76	2.509	2.517	(0.522)	156664	33.1849	33.18
20 trans-1,2-Dichloroethene	96	3.049	3.053	(0.634)	29730	16.6296	16.62

21 Vinyl Acetate	43	4.335	4.339 (0.901)	44120	42.6381	42.63
22 1,1-Dichloroethane	63	3.507	3.511 (0.729)	57748	18.7720	18.77

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.600	3.604	(0.748)	46121	16.8783	16.87
	24 2-Butanone	43	4.260	4.260	(0.885)	42261	40.8523	40.85
	25 Methacrylonitrile	41	4.492	4.493	(0.934)	21644	18.8803	18.88(a)
	26 2,2-Dichloropropane	77	4.174	4.178	(0.868)	37931	17.3468	17.34
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	36430	16.9818	16.98
	28 Chloroform	83	4.567	4.568	(0.949)	60052	18.8679	18.86
	29 Bromochloromethane	128	4.462	4.466	(0.928)	18018	19.0497	19.04
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	91612	56.6166	56.61
	31 1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	44191	17.6899	17.68
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	43938	16.9779	16.97
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	49815	19.2489	19.24
	34 Carbon Tetrachloride	117	4.905	4.909	(0.884)	35015	16.6475	16.64
$	35 1,2-Dichloroethane-d4	65	5.092	5.093	(1.058)	110743	56.4789	56.47
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	366459	50.0000	
	37 Benzene	78	5.133	5.134	(0.925)	139438	18.4529	18.45
	38 Trichloroethene	130	5.782	5.786	(1.042)	34833	17.1484	17.14
	39 Bromodichloromethane	83	6.273	6.277	(1.130)	37705	16.8986	16.89
	40 Methyl Methacrylate	41	5.823	5.824	(1.210)	12313	19.6709	19.67(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	25957	36.1157	36.11
	42 1,2-Dichloropropane	63	6.003	6.007	(1.082)	37967	18.5215	18.52
	43 2-Nitropropane	43	6.505	6.506	(1.352)	6910	19.7125	19.71
	44 Dibromomethane	93	6.116	6.116	(1.102)	22289	17.6387	17.63
	45 4-Methyl-2-Pentanone	43	6.850	6.851	(0.837)	83519	36.8785	36.87
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	46036	17.8884	17.88
*	47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	328317	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	340179	55.8942	55.89(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	47155	17.4425	17.44(a)
	50 Toluene	91	6.978	6.978	(0.853)	145512	17.5370	17.53
	51 trans-1,3-Dichloropropene	75	7.195	7.196	(1.297)	36384	17.4607	17.46
	52 2-Hexanone	43	7.589	7.589	(0.928)	55076	36.3167	36.31
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	27746	18.8055	18.80
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	61485	19.5507	19.55
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	28195	17.5223	17.52
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	27899	17.8358	17.83
	57 1,2-Dibromoethane	107	7.784	7.780	(0.951)	32544	18.5334	18.53
	58 1-Chlorohexane	55	8.192	8.193	(1.476)	29063	17.2699	17.26
	59 Chlorobenzene	112	8.207	8.208	(1.003)	93675	18.9929	18.99
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.283	(1.012)	29192	17.0426	17.04
	61 Ethylbenzene	106	8.305	8.305	(1.015)	45882	17.2513	17.25
	62 m,p-Xylenes	106	8.406	8.406	(1.027)	117941	36.1131	36.11
	63 o-Xylene	106	8.743	8.744	(1.069)	57400	17.9558	17.95
	64 Styrene	104	8.758	8.759	(1.071)	98756	18.2121	18.21
	66 Bromoform	173	8.916	8.916	(1.090)	16633	16.6314	16.63
	67 Isopropylbenzene	105	9.058	9.059	(1.107)	142070	17.9214	17.92
	68 1,1,2,2-Tetrachloroethane	83	9.324	9.325	(0.917)	47952	19.9951	19.99
$	69 4-Bromofluorobenzene	95	9.193	9.190	(1.124)	128339	56.9089	56.90(M)
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176750	50.0000	
	71 1,2,3-Trichloropropane	75	9.358	9.359	(0.920)	46292	19.3399	19.33
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.374	(1.146)	9610	18.5751	18.57(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.926)	166665	18.2571	18.25
	74 Bromobenzene	156	9.317	9.317	(0.916)	40773	17.5396	17.53
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	114692	18.2049	18.20

76	2-Chlorotoluene	91	9.482	9.478 (0.933)	102550	17.3367	17.33
77	4-Chlorotoluene	91	9.576	9.572 (0.942)	119214	17.6965	17.69

Data File: \\nahstws005\Target\chem\voa9.i\U240524.b\U052404.D Page 3
Report Date: 28-May-2024 10:11

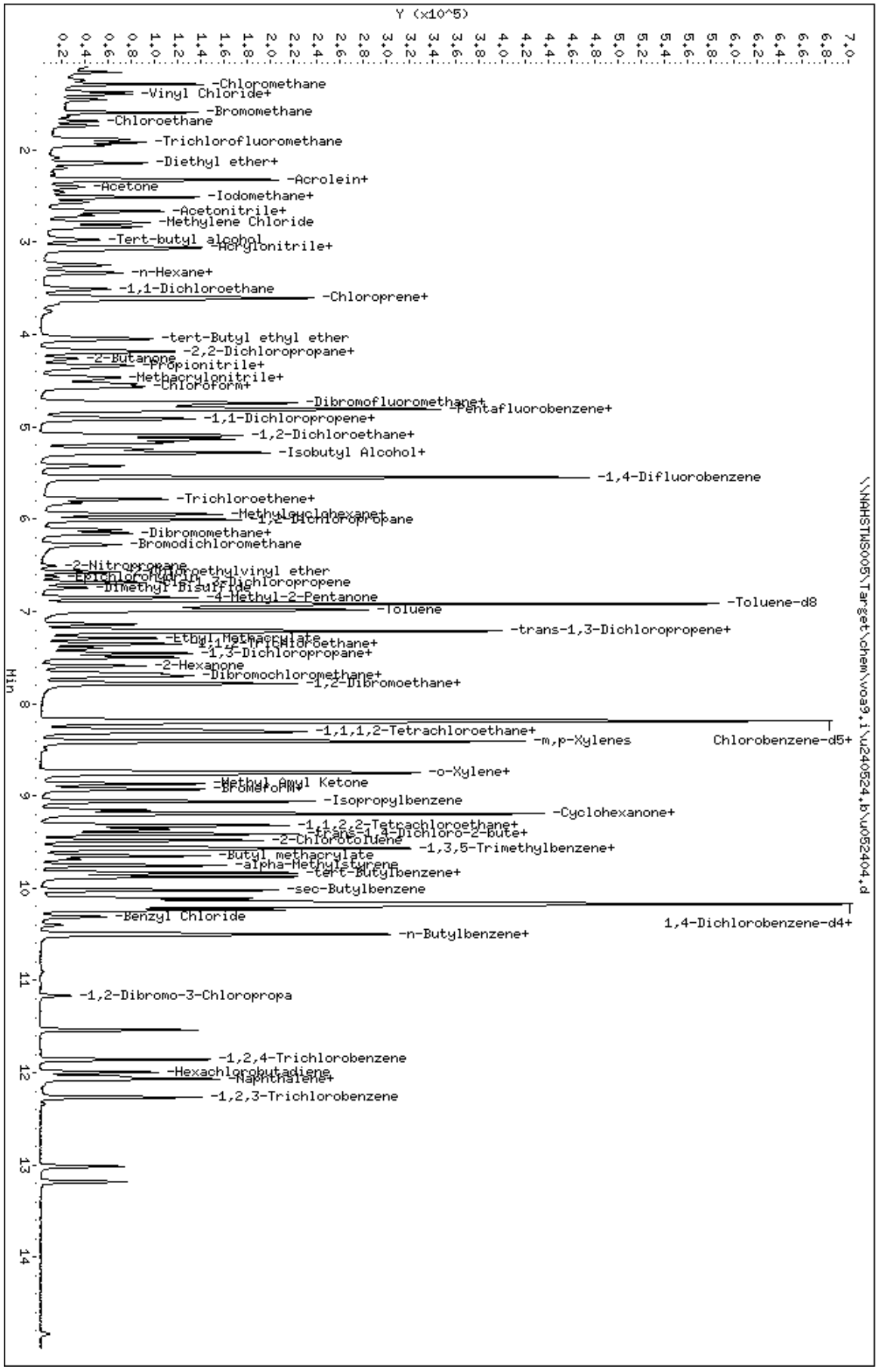
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.834	9.835	(0.967)	98559	17.8338	17.83
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	115540	17.8777	17.87
81	sec-Butylbenzene	105	10.022	10.018	(0.986)	131668	17.9292	17.92
82	p-Isopropyltoluene	119	10.145	10.146	(0.998)	115418	18.0508	18.05
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	70482	18.8310	18.83
84	1,4-Dichlorobenzene	146	10.190	10.187	(1.002)	75133	19.1267	19.12
86	Benzyl Chloride	91	10.310	10.311	(1.260)	37458	18.3970	18.39
87	n-Butylbenzene	91	10.490	10.491	(1.032)	102408	17.7667	17.76
88	1,2-Dichlorobenzene	146	10.505	10.502	(1.033)	71777	19.4112	19.41
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	5073	18.1342	18.13
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	44903	16.9233	16.92
91	Hexachlorobutadiene	225	11.997	11.994	(1.180)	18586	17.6334	17.63
92	Naphthalene	128	12.065	12.065	(1.187)	106514	18.9245	18.92
93	1,2,3-Trichlorobenzene	180	12.267	12.268	(1.206)	42818	17.3304	17.33
146	Methyl acetate	43	2.708	2.712	(0.563)	43387	21.9546	21.95
138	Freon TF	101	2.322	2.330	(0.483)	49055	18.3801	18.38
141	Cyclohexane	56	4.777	4.781	(0.993)	51369	18.0966	18.09
142	Tetrahydrofuran	42	4.541	4.541	(0.944)	14110	43.6648	43.66
147	Methylcyclohexane	55	5.943	5.943	(1.071)	79101	17.9800	17.98
135	1,4-Dioxane	88	6.168	6.165	(1.282)	6941	381.296	381.29
132	n-Butanol	56	5.823	5.824	(1.210)	16755	358.898	358.89(a)
136	n-Hexane	57	3.330	3.338	(0.692)	33169	18.8345	18.83
139	Diethyl ether	59	2.138	2.142	(0.444)	22234	18.7995	18.79
148	Tert-butyl alcohol	59	2.970	2.971	(0.617)	53086	483.780	483.77
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	40483	454.348	454.34
152	Amyl alcohol	42	7.398	7.398	(0.904)	19280	405.162	405.16
156	Diisopropyl ether	45	3.615	3.619	(0.751)	105137	18.3613	18.36
162	Butyl acrylate	55	8.732	8.729	(1.067)	59025	16.9983	16.99
187	n-Amyl acetate	43	8.927	8.927	(1.091)	65488	20.3767	20.37
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	138955	18.0309	18.03
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	106162	17.7150	17.71
167	Ethanol	45	2.082	2.086	(0.433)	8075	463.544	463.54
172	tert-Butyl formate	59	5.242	5.239	(1.090)	54085	51.1787	51.17
173	3,3-Dimethyl-1-butanol	57	7.780	7.780	(0.951)	79695	462.143	462.14
174	tert-Amyl methyl ether	73	5.283	5.284	(1.098)	97349	17.7589	17.75
175	tert-Butyl ethyl ether	59	4.046	4.047	(0.841)	93897	17.0413	17.04
176	tert-Amyl alcohol	59	5.242	5.239	(1.090)	54085	502.443	502.44
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	216113	394.369	394.36
140	1,3-Butadiene	54	1.396	1.400	(0.290)	17633	18.0056	18.00
182	Epichlorohydrin	57	6.629	6.629	(1.195)	11094	96.3005	96.30
M 94	1,2-Dichloroethylene (total)	96				66160	33.6434	33.64
M 95	Xylenes (total)	106				175341	53.6301	53.63
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	45116	17.4234	17.42
130	Ethyl Acetate	43	4.335	4.339	(0.901)	44120	21.3604	21.36
131	Methyl Acrylate	55	4.365	4.365	(0.907)	42946	20.4287	20.42
189	n-Butyl acetate	43	7.705	7.702	(0.942)	60148	17.7686	17.76
134	Cyclohexanone	55	9.152	9.152	(0.900)	37141	392.362	392.36(a)
185	Isoprene	39	2.146	2.154	(0.446)	8219	19.5075	19.50
188	Isopropyl acetate	43	5.280	5.280	(0.951)	104266	20.0258	20.02
150	Allyl alcohol	57	3.330	3.338	(0.692)	33169	376.691	376.69
194	Acetaldehyde	44	1.452	1.456	(0.302)	93319	279.315	279.31
195	Methyl Amyl Ketone	43	8.867	8.864	(1.084)	78283	19.0161	19.01

200 Dimethyl Disulfide	94	6.742	6.742 (0.824)	14581	15.2158	15.21
133 Ethyl Acrylate	55	5.943	5.943 (1.235)	79101	18.1004	18.10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
163 Butyl methacrylate	41	9.647	9.647	(0.949)	38081	18.9991	18.99
159 Propylene oxide	43	2.194	2.199	(0.456)	4834	36.5245	36.52
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	27419	17.4940	17.49

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

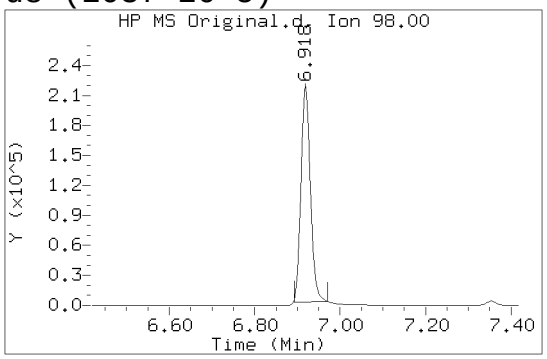
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InstruID : VOA9.i
LabSampID : VLCSDW-240524

Toluene-d8 (2037-26-5)

Reason Code: MPT

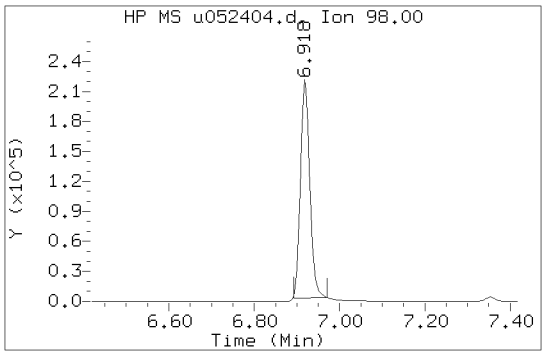
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218222
28-May-2024
10:11
tianna
smith



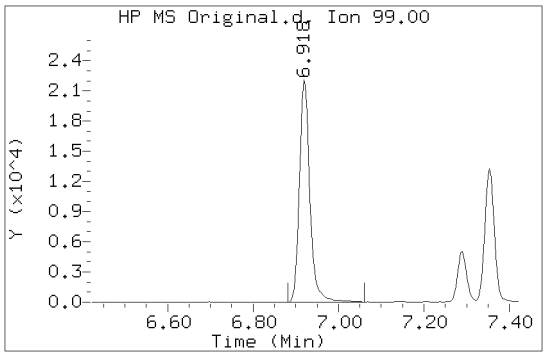
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28-May-2024
10:11
tianna
smith



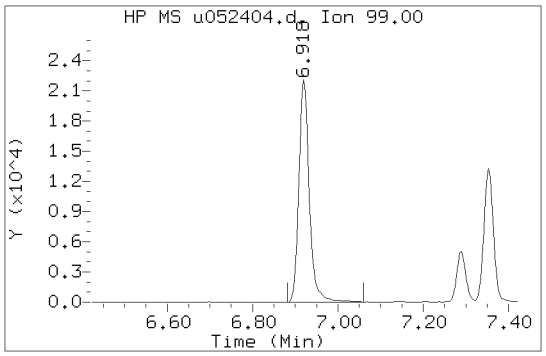
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HEIGHT
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28-May-2024
10:11
tianna
smith



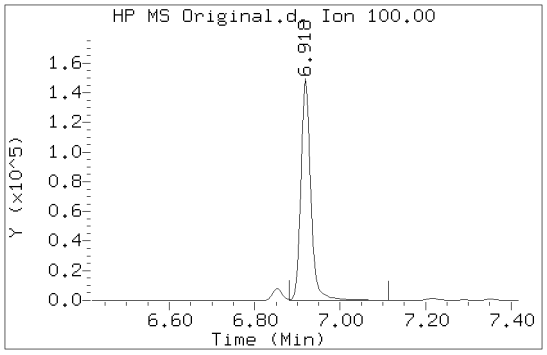
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HEIGHT
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28-May-2024
10:11
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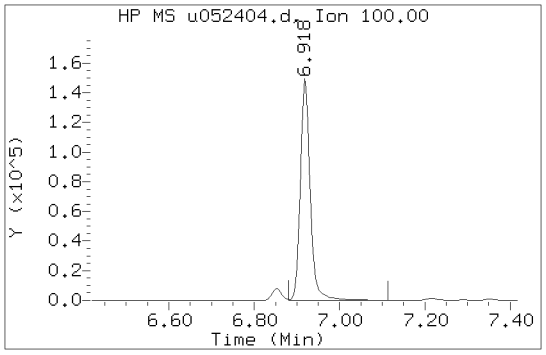
BEFORE

MASS
100
AREA
245493
HEIGHT
149461
28-May-2024
10:11
tianna
smith



AFTER

MASS
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AREA
245493
HEIGHT
149461
28-May-2024
10:11
tianna
smith

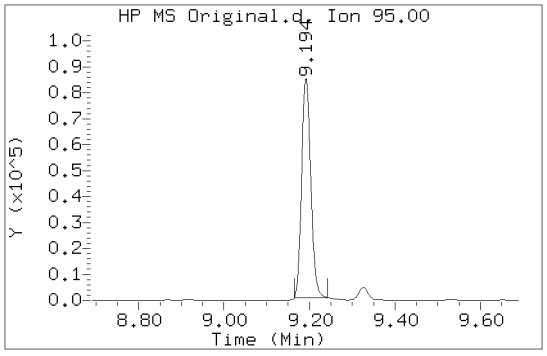


4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

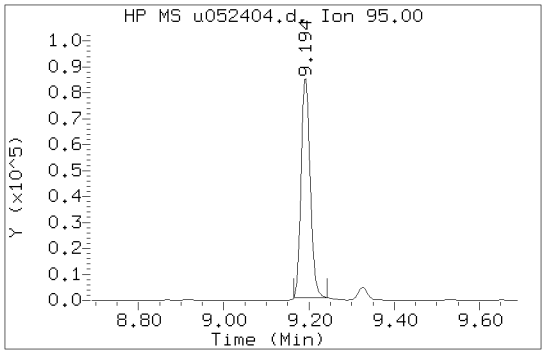
BEFORE

MASS
95
AREA
128339
HEIGHT
84510
28-May-2024
10:11
tianna
smith



AFTER

MASS
95
AREA
128339
HEIGHT
84510
28-May-2024
10:11
tianna
smith



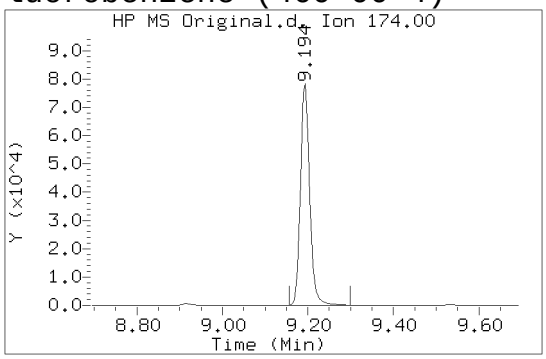
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Inj Date : 24-MAY-2024 13:35
InstruID : VOA9.i
LabSampID : VLCSDW-240524

4-Bromofluorobenzene (460-00-4)

Reason Code: MPT

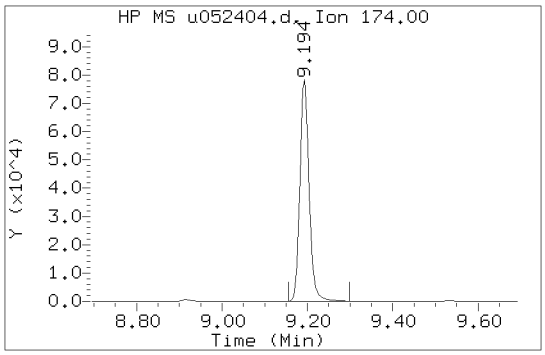
BEFORE

MASS
174
AREA
120400
HEIGHT
78344
28-May-2024
10:11
tianna
smith



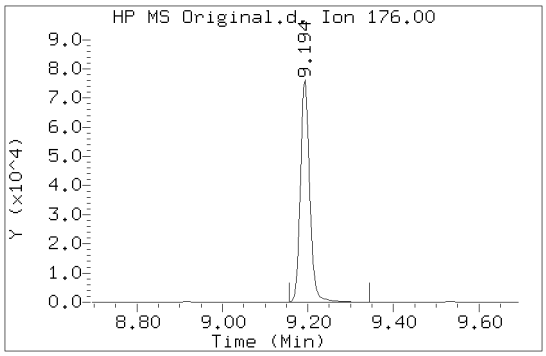
AFTER

MASS
174
AREA
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HEIGHT
78344
28-May-2024
10:11
tianna
smith



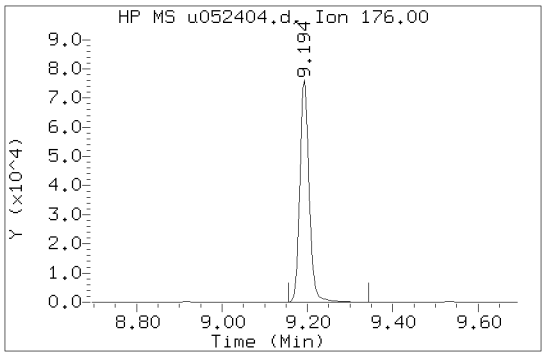
BEFORE

MASS
176
AREA
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HEIGHT
76208
28-May-2024
10:11
tianna
smith



AFTER

MASS
176
AREA
117877
HEIGHT
76208
28-May-2024
10:11
tianna
smith



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D Page 1
Report Date: 21-Jun-2024 12:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D
Lab Smp Id: VBLKW-240524 Client Smp ID: VBLKW-240524
Inj Date : 24-MAY-2024 14:18
Operator : FT Inst ID: VOA9.i
Smp Info : VBLKW-240524;VBLKW-240524;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 21-Jun-2024 12:13 s.zaid Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

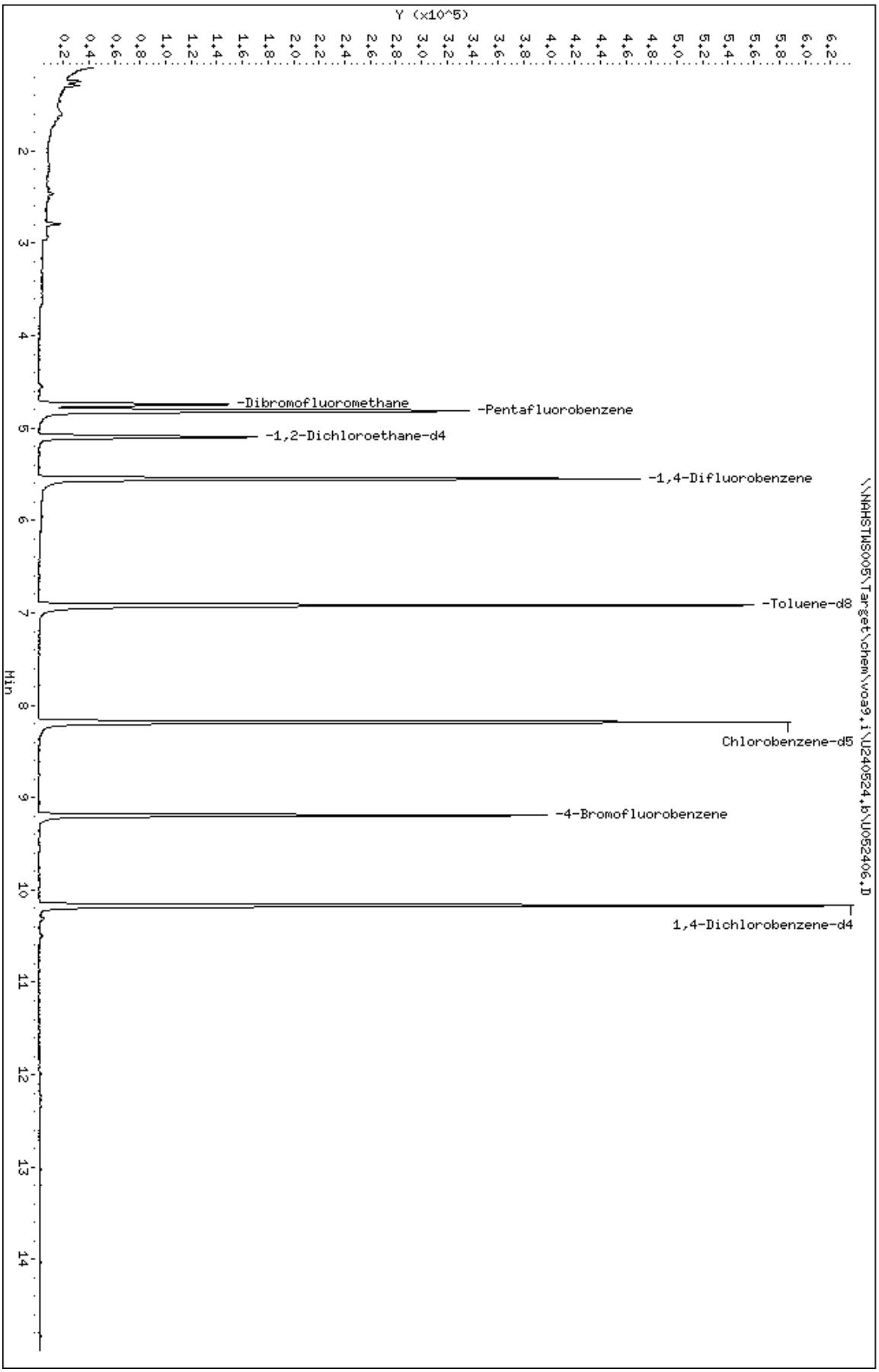
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	246217	50.0000	
$ 30 Dibromofluoromethane	113	4.744	4.744	(0.986)	87927	54.7139	54.71
$ 35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	112676	57.8574	57.85
* 36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	360374	50.0000	
* 47 Chlorobenzene-d5	117	8.181	8.181	(1.000)	327810	50.0000	
$ 48 Toluene-d8	98	6.918	6.918	(0.846)	338097	55.6383	55.63(M)
$ 69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	125651	55.7978	55.79
* 70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	167574	50.0000	

QC Flag Legend

M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D
Date : 24-MAY-2024 14:18
Client ID: VBLKW-240524
Sample Info: VBLKW-240524;VBLKW-240524;3;;BLANK
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^5)
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D
Min

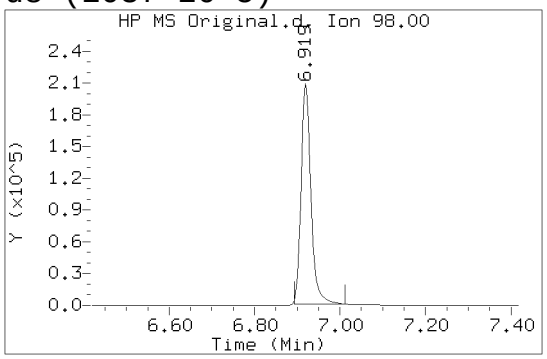
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052406.D
Inj Date : 24-MAY-2024 14:18
InstruID : VOA9.i
LabSampID : VBLKW-240524

Toluene-d8 (2037-26-5)

Reason Code: MPT

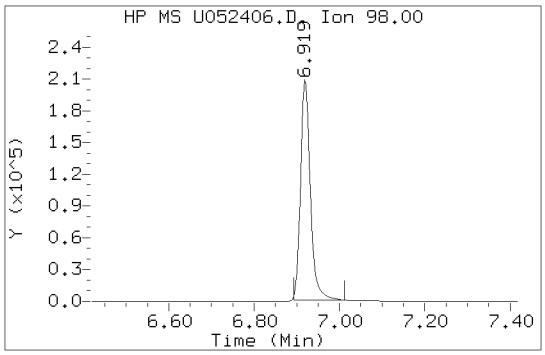
BEFORE

MASS
98
AREA
338097
HEIGHT
208047
21-Jun-2024
12:14
s
zaid



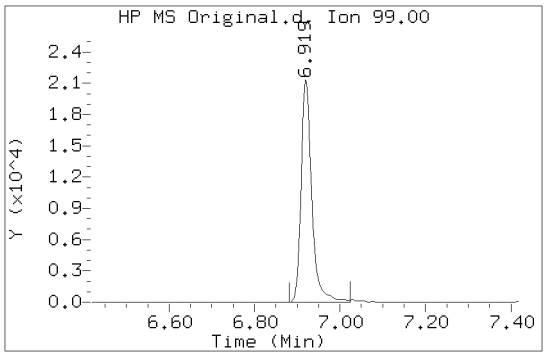
AFTER

MASS
98
AREA
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HEIGHT
208047
21-Jun-2024
12:14
s
zaid



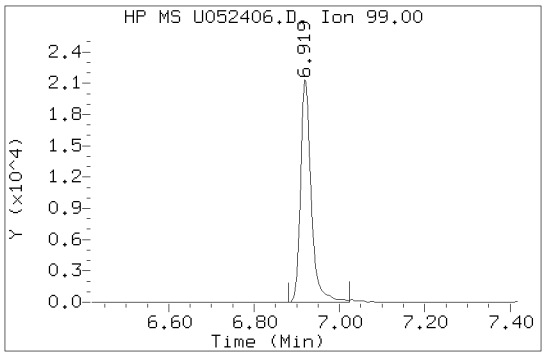
BEFORE

MASS
99
AREA
37760
HEIGHT
21320
21-Jun-2024
12:14
s
zaid



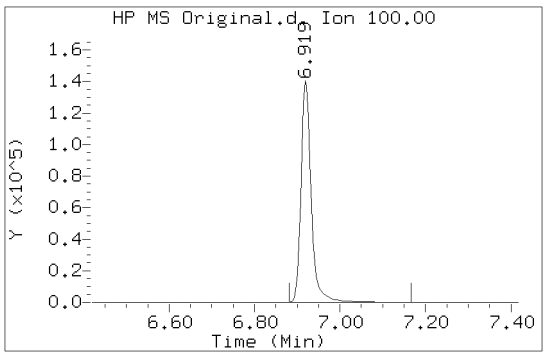
AFTER

MASS
99
AREA
37760
HEIGHT
21320
21-Jun-2024
12:14
s
zaid



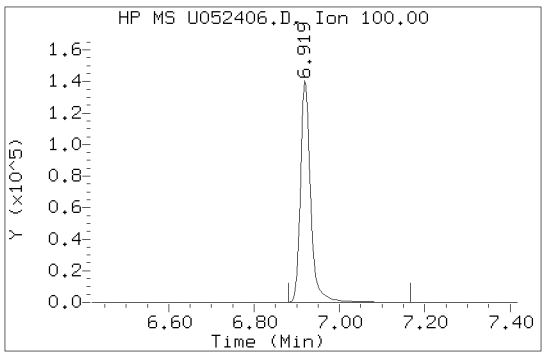
BEFORE

MASS
100
AREA
236308
HEIGHT
140428
21-Jun-2024
12:14
s
zaid



AFTER

MASS
100
AREA
236308
HEIGHT
140428
21-Jun-2024
12:14
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052412.D Page 1
Report Date: 21-Jun-2024 12:53

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052412.D
Lab Smp Id: HS24051277-02
Inj Date : 24-MAY-2024 16:27
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051277-02
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 21-Jun-2024 12:50 s.zaid   Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36   Cal File: V052211.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

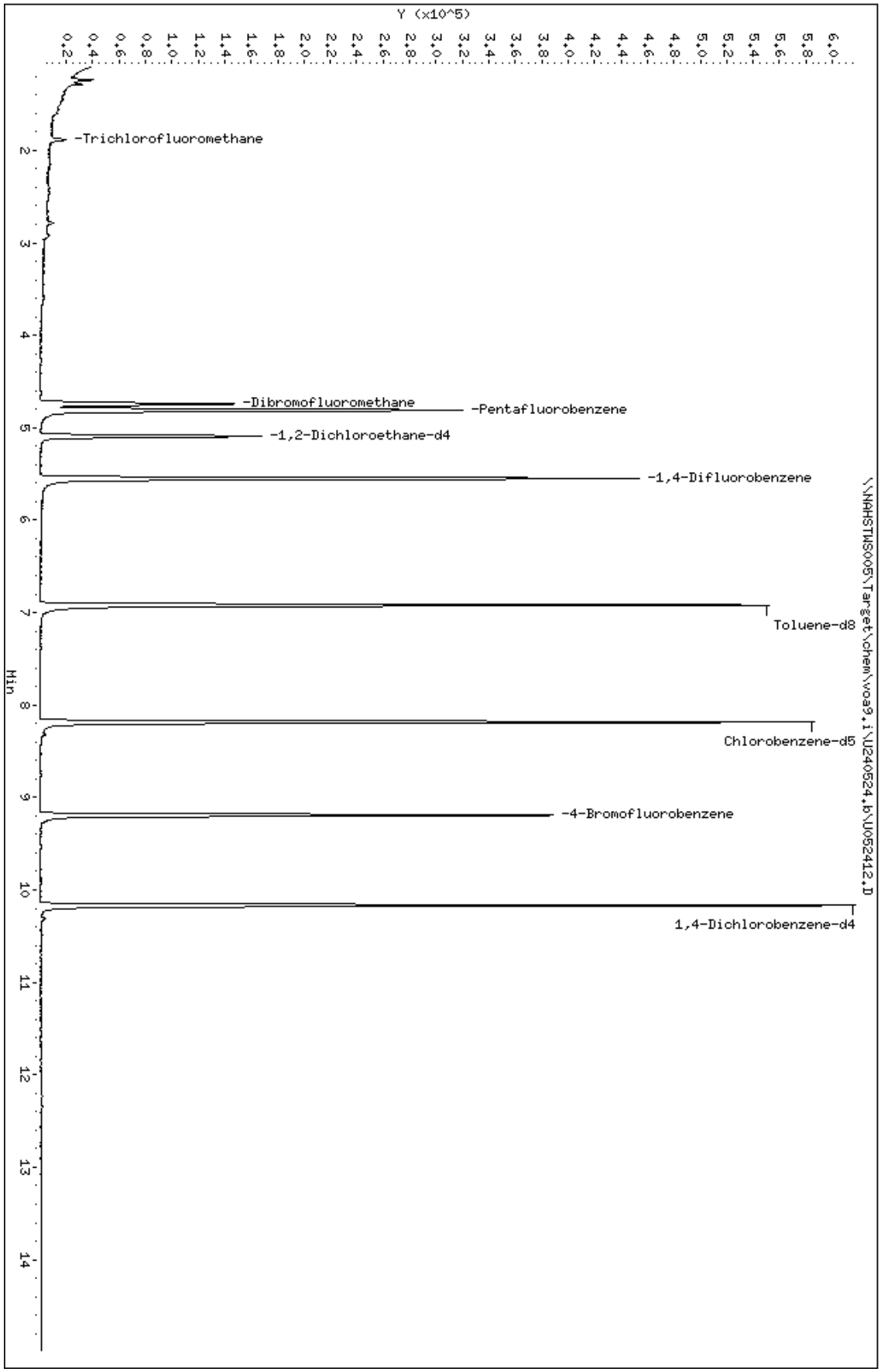
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.812	4.815	(1.000)	237098	50.0000	
	8 Trichlorofluoromethane	101	1.884	1.895	(0.392)	7039	2.87223	2.87
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	86311	55.7674	55.76
$	35 1,2-Dichloroethane-d4	65	5.093	5.096	(1.058)	110235	58.7867	58.78
*	36 1,4-Difluorobenzene	114	5.546	5.550	(1.000)	352717	50.0000	
*	47 Chlorobenzene-d5	117	8.182	8.181	(1.000)	319034	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	332326	56.1923	56.19(M)
$	69 4-Bromofluorobenzene	95	9.190	9.190	(1.123)	119075	54.3240	54.32
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	160637	50.0000	

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240524,b\U052412,D
Date : 24-MAY-2024 16:27
Client ID:
Sample Info: HS2405277-02
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052412.D

Date : 24-MAY-2024 16:27

Client ID:

Instrument: VOA9.i

Sample Info: HS24051277-02

Purge Volume: 5.0

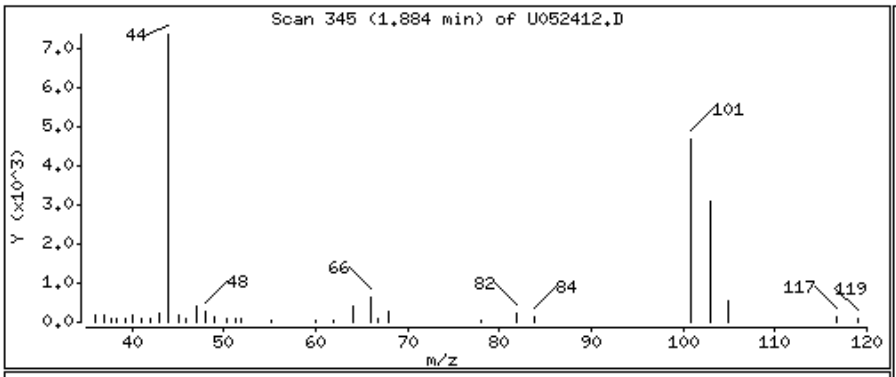
Operator: FT

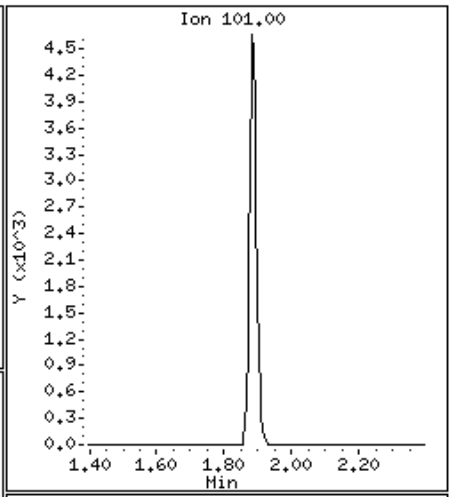
Column phase: DB624

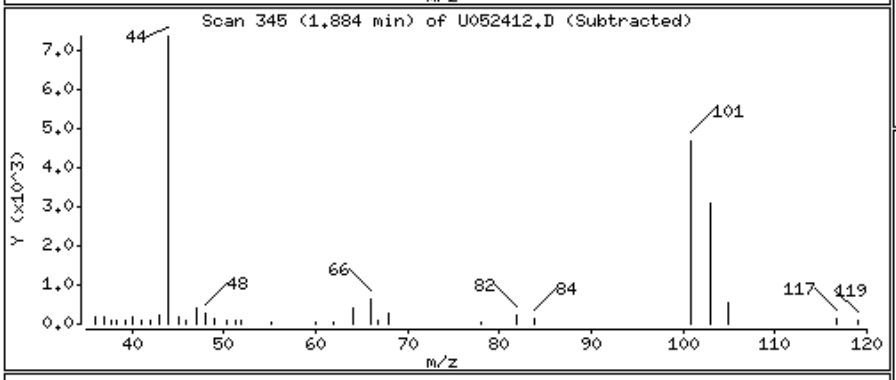
Column diameter: 0.18

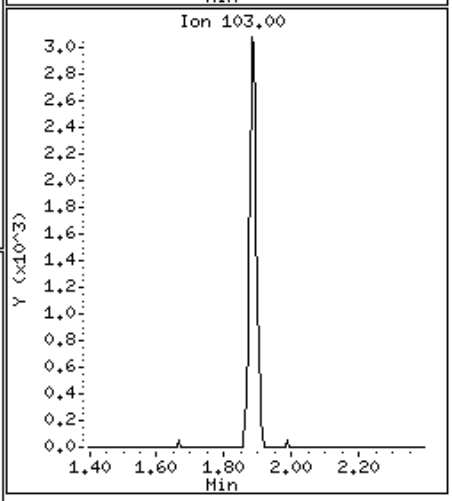
8 Trichlorofluoromethane

Concentration: 2.87 ug/l







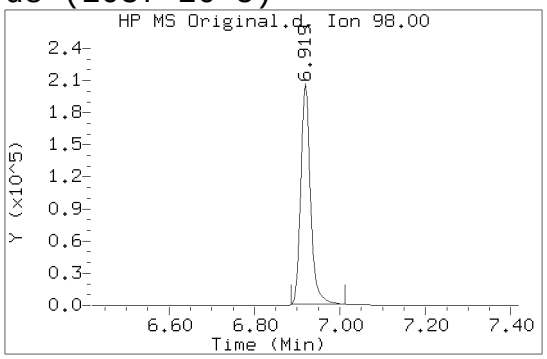


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052412.D
Inj Date : 24-MAY-2024 16:27
InstruID : VOA9.i
LabSampID : HS24051277-02

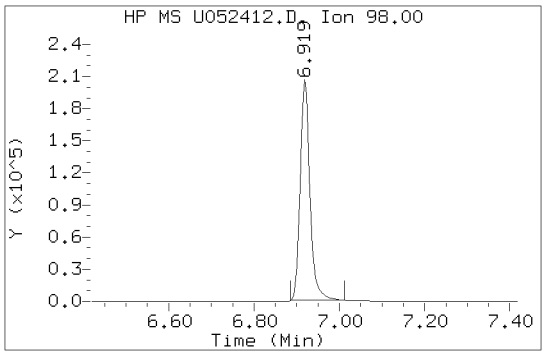
Toluene-d8 (2037-26-5)

Reason Code:

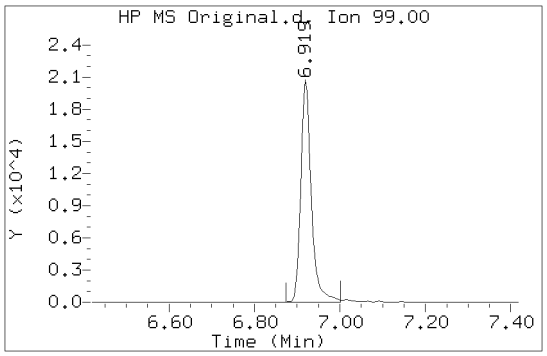
BEFORE
MASS
98
AREA
332326
HEIGHT
205936
21-Jun-2024
12:53
s
zaid



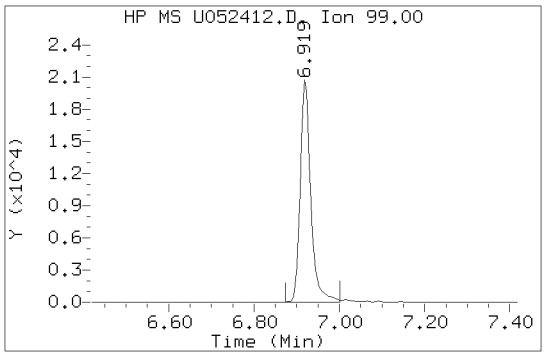
AFTER
MASS
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AREA
332326
HEIGHT
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21-Jun-2024
12:53
s
zaid



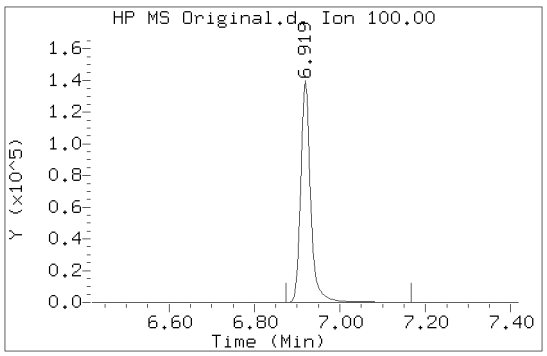
BEFORE
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AREA
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HEIGHT
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21-Jun-2024
12:53
s
zaid



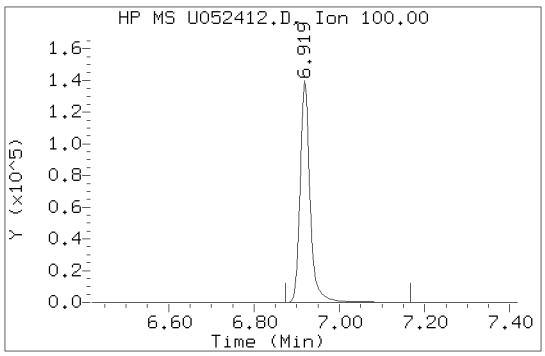
AFTER
MASS
99
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36177
HEIGHT
20736
21-Jun-2024
12:53
s
zaid



BEFORE
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100
AREA
230499
HEIGHT
139840
21-Jun-2024
12:53
s
zaid



AFTER
MASS
100
AREA
230499
HEIGHT
139840
21-Jun-2024
12:53
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052422.D Page 1
Report Date: 21-Jun-2024 12:50

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052422.D
Lab Smp Id: HS24051277-01
Inj Date : 24-MAY-2024 20:08
Operator : FT   Inst ID: VOA9.i
Smp Info : HS24051277-01
Misc Info : V9;WATER;0;25;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 21-Jun-2024 12:50 s.zaid   Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36   Cal File: V052211.D
Als bottle: 20
Dil Factor: 25.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

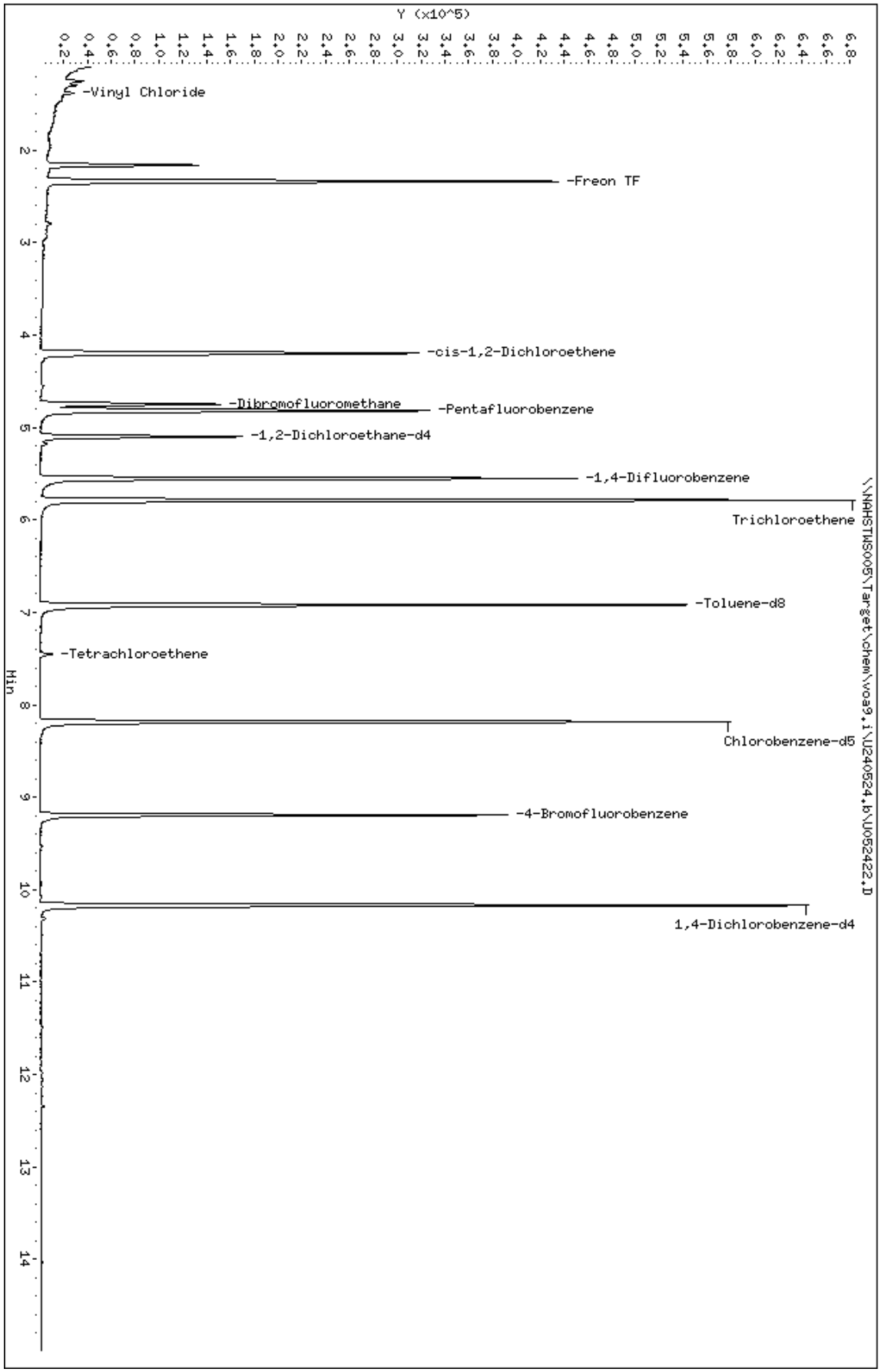
Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	238277	50.0000	
	5 Vinyl Chloride	62	1.382	1.378	(0.287)	6208	2.87687	71.92
	27 cis-1,2-Dichloroethene	96	4.197	4.193	(0.872)	152201	73.8018	1845.04(H)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	86611	55.6849	55.68
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	107866	57.2292	57.22(M)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	349128	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.043)	217908	112.602	2815.05(H)
*	47 Chlorobenzene-d5	117	8.182	8.181	(1.000)	320689	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.846)	331964	55.8418	55.84(M)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	2302	1.50667	37.66(a)
$	69 4-Bromofluorobenzene	95	9.194	9.190	(1.124)	122832	55.7569	55.75
*	70 1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	167244	50.0000	
	138 Freon TF	101	2.337	2.337	(0.485)	168440	65.6501	1641.25
M	94 1,2-Dichloroethylene (total)	96				152201	80.5094	2012.73

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240524,b\U052422.D
Date : 24-MAY-2024 20:08
Client ID:
Sample Info: HS24051277-01
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052422.D

Date : 24-MAY-2024 20:08

Client ID:

Instrument: VOA9.i

Sample Info: HS24051277-01

Purge Volume: 5.0

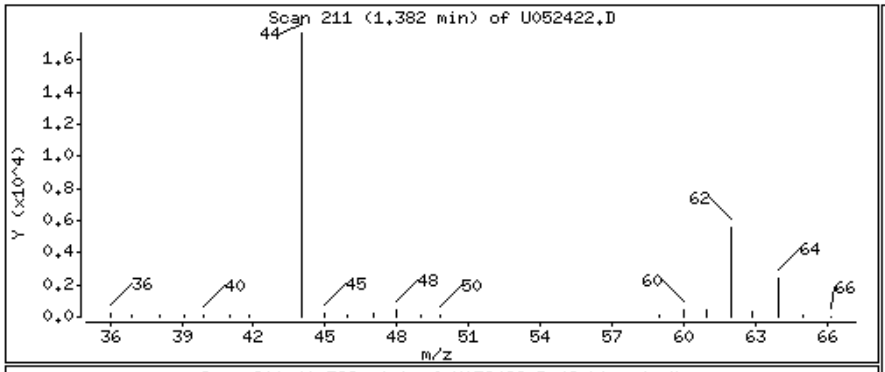
Operator: FT

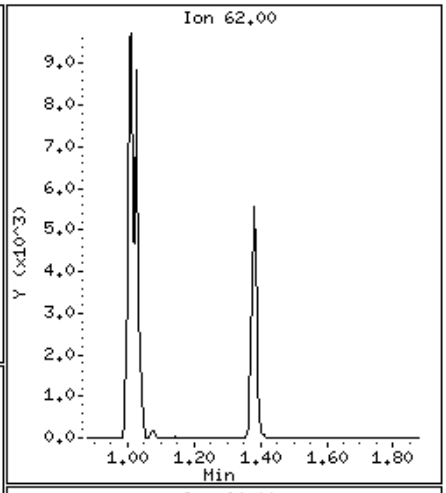
Column phase: DB624

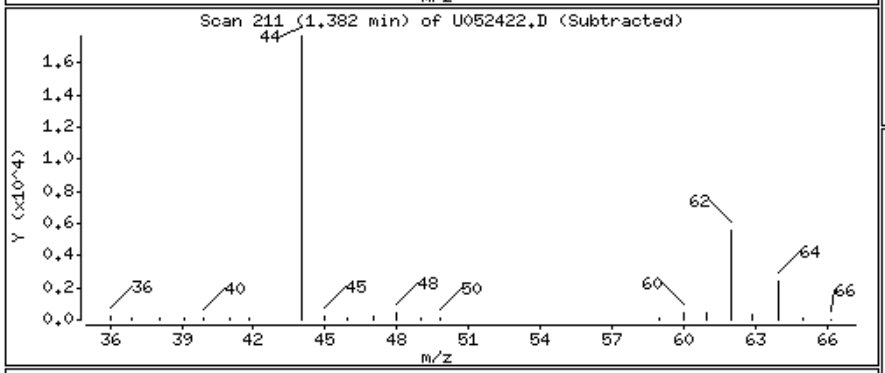
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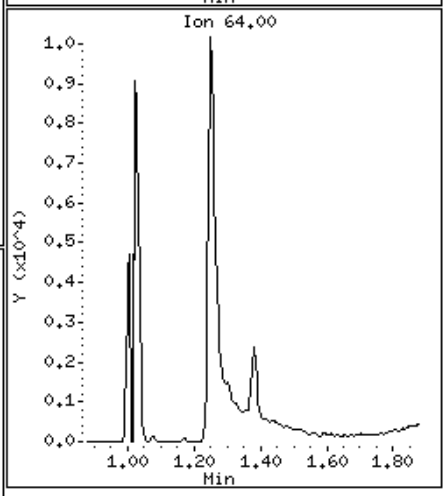
5 Vinyl Chloride

Concentration: 71.92 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052422.D Page 3

Date : 24-MAY-2024 20:08

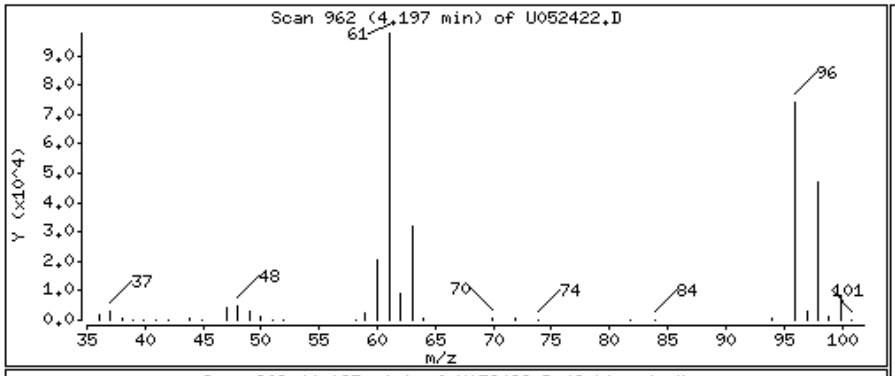
Client ID: Instrument: VOA9.i

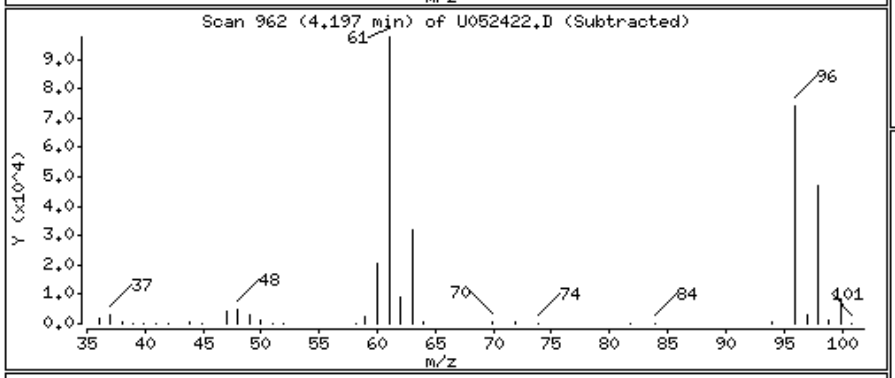
Sample Info: HS24051277-01

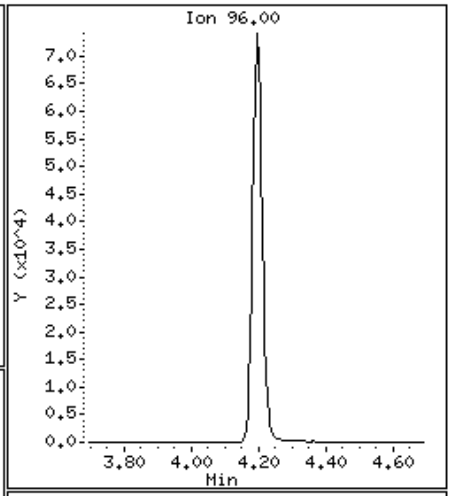
Purge Volume: 5.0 Operator: FT

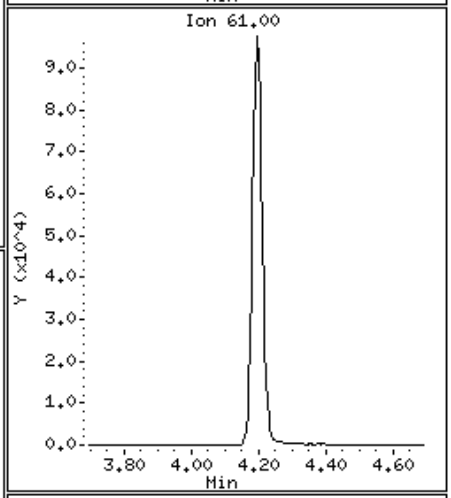
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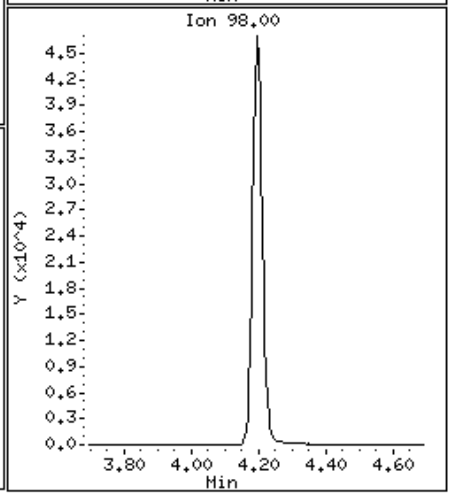
27 cis-1,2-Dichloroethene Concentration: 1845.04 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052422.D Page 4

Date : 24-MAY-2024 20:08

Client ID:

Instrument: VOA9.i

Sample Info: HS24051277-01

Purge Volume: 5.0

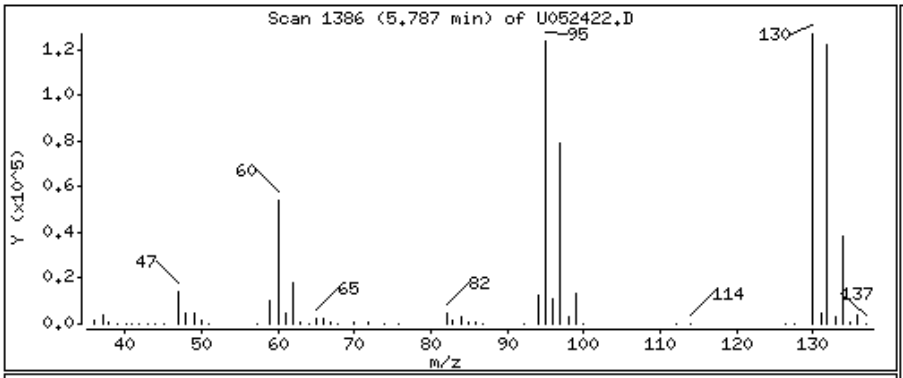
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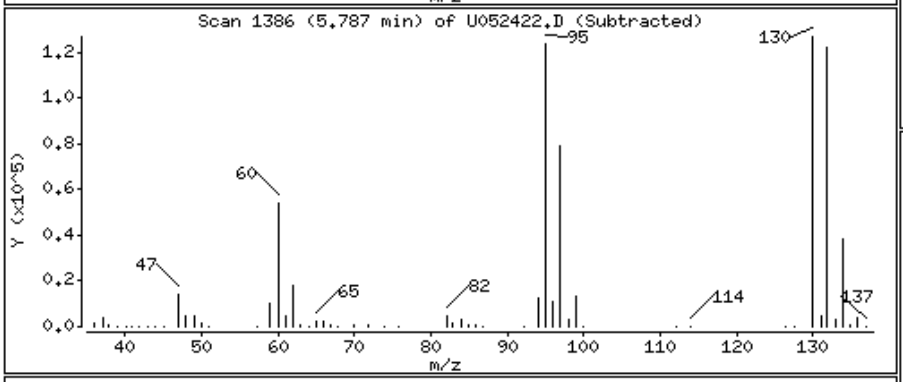
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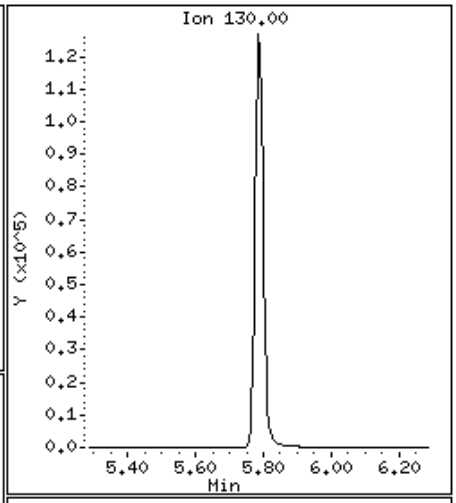
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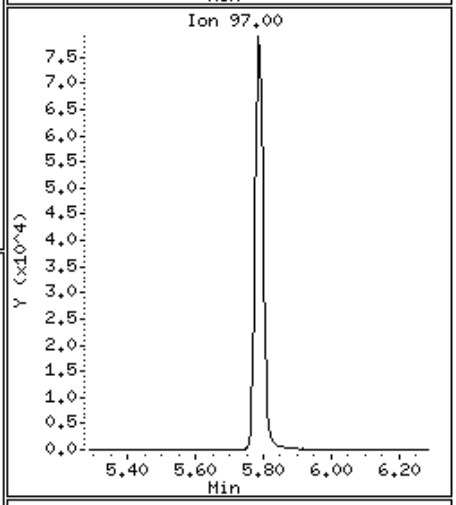
38 Trichloroethene

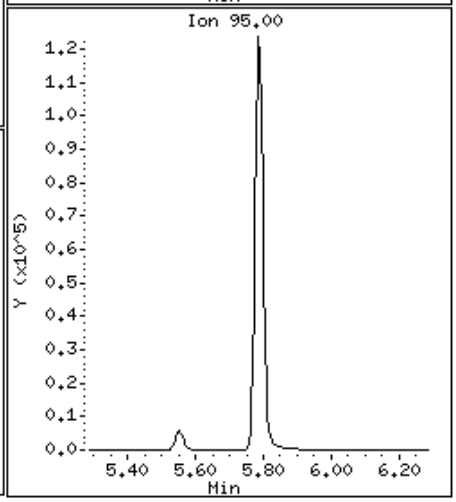
Concentration: 2815.05 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052422.D Page 5

Date : 24-MAY-2024 20:08

Client ID:

Instrument: VOA9.i

Sample Info: HS24051277-01

Purge Volume: 5.0

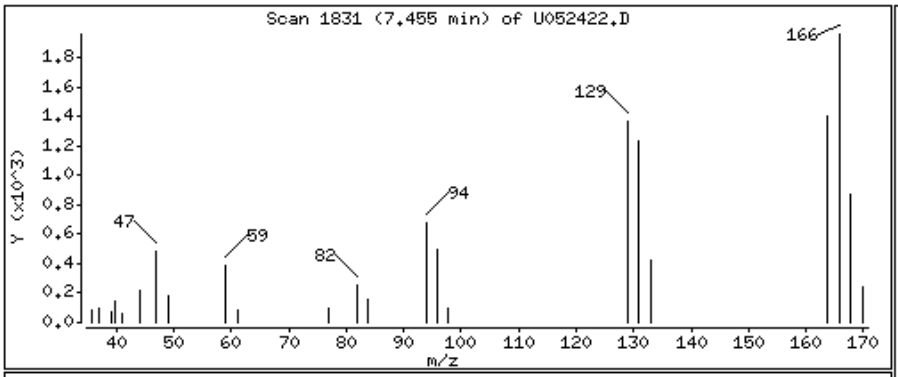
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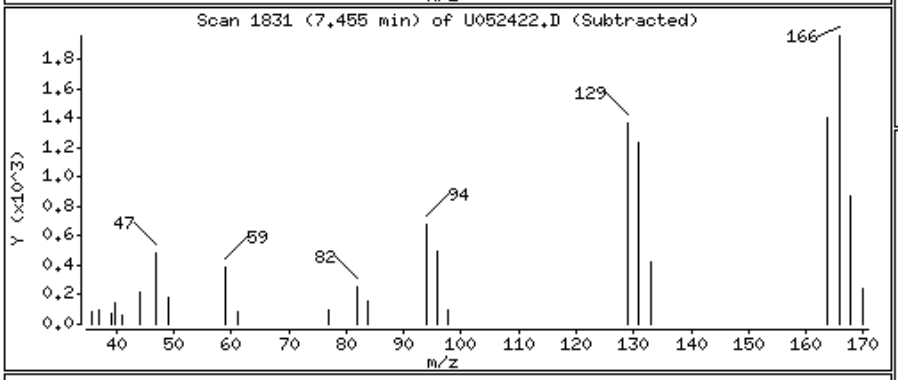
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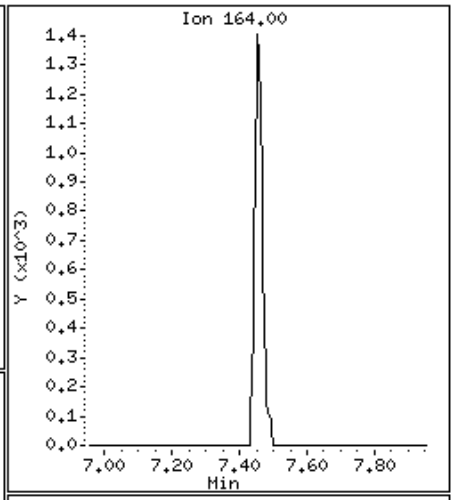
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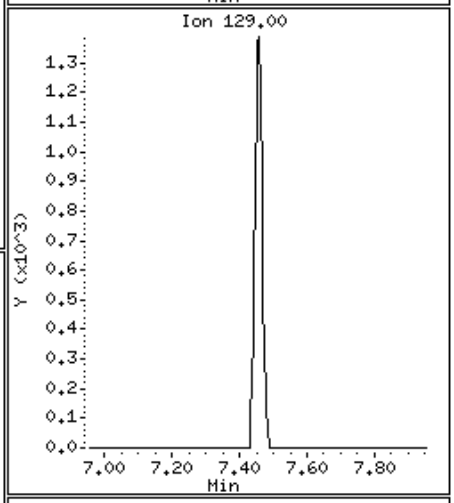
56 Tetrachloroethene

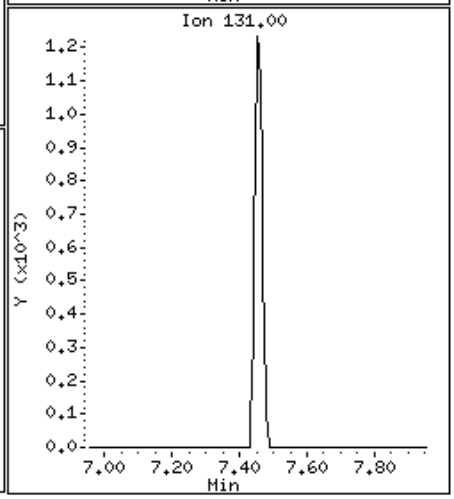
Concentration: 37.66 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052422.D Page 6

Date : 24-MAY-2024 20:08

Client ID:

Instrument: VOA9.i

Sample Info: HS24051277-01

Purge Volume: 5.0

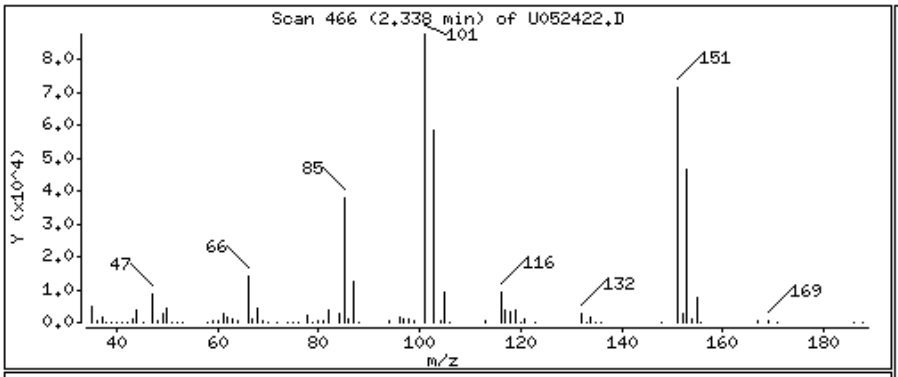
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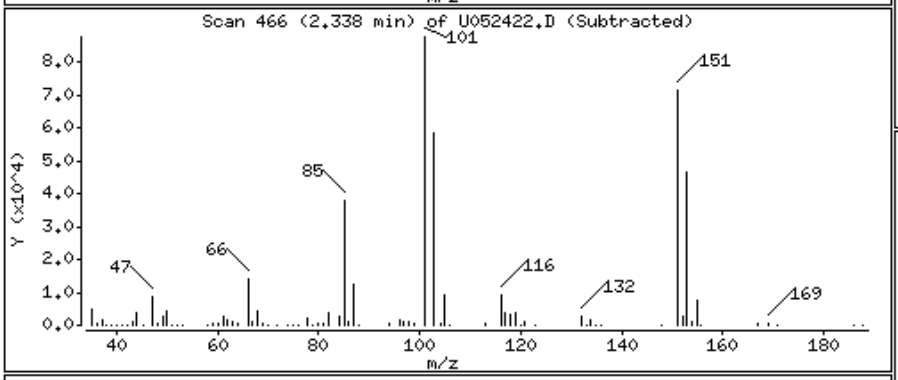
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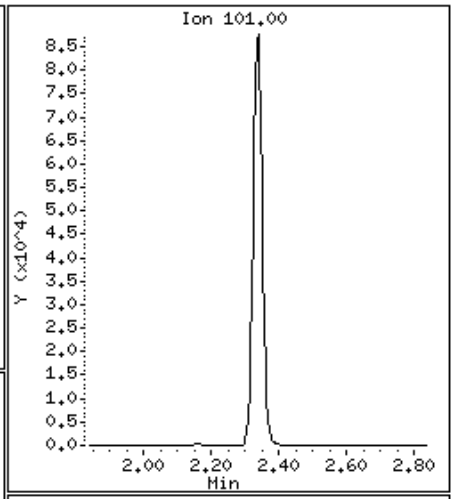
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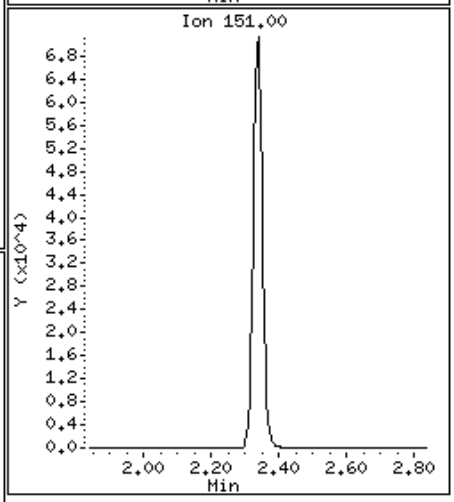
138 Freon TF

Concentration: 1641.25 ug/l









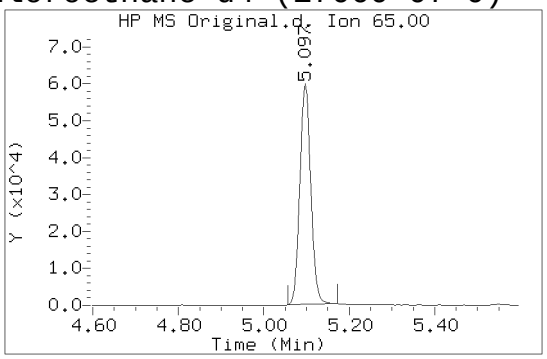
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Inj Date : 24-MAY-2024 20:08
InstruID : VOA9.i
LabSampID : HS24051277-01

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

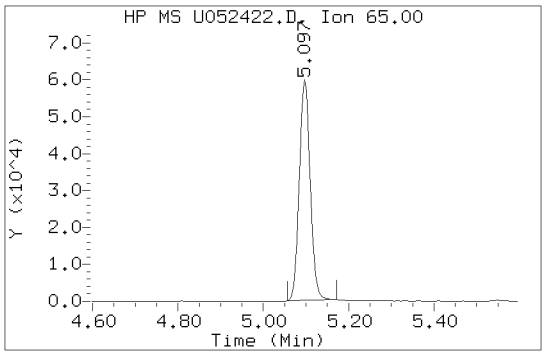
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HEIGHT
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21-Jun-2024
12:50
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zaid



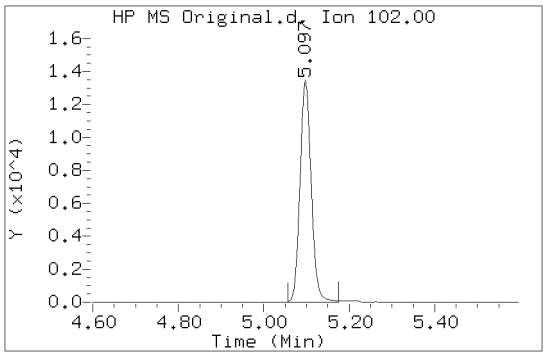
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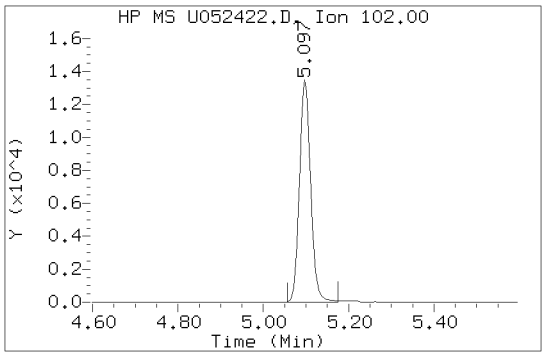
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AFTER

MASS
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13487
21-Jun-2024
12:50
s
zaid

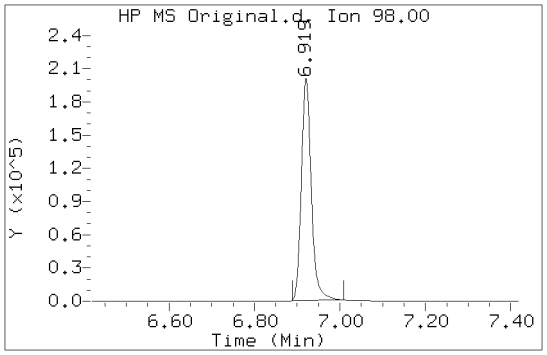


Toluene-d8 (2037-26-5)

Reason Code: MPT

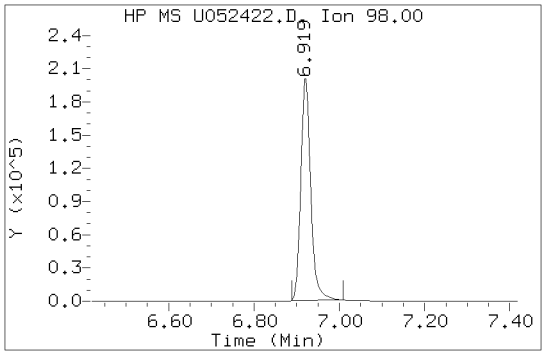
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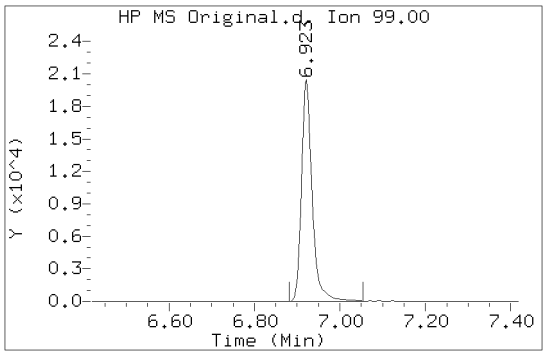
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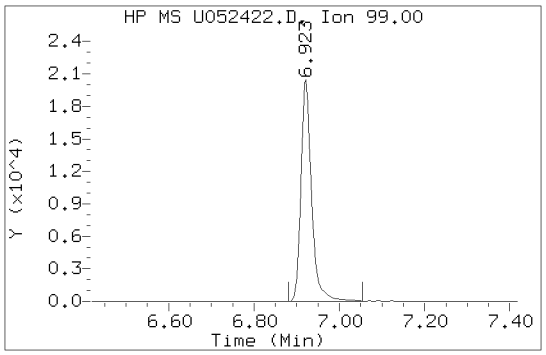
BEFORE

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AREA
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HEIGHT
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21-Jun-2024
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zaid



AFTER

MASS
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HEIGHT
20464
21-Jun-2024
12:50
s
zaid



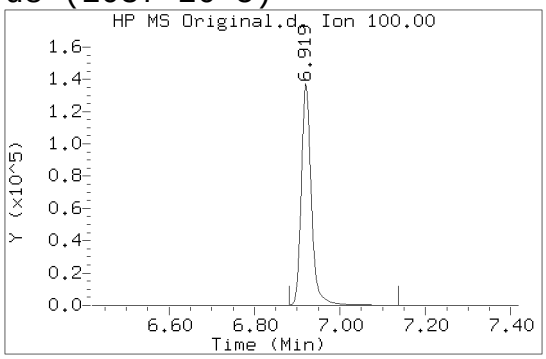
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Inj Date : 24-MAY-2024 20:08
InstruID : VOA9.i
LabSampID : HS24051277-01

Toluene-d8 (2037-26-5)

Reason Code: MPT

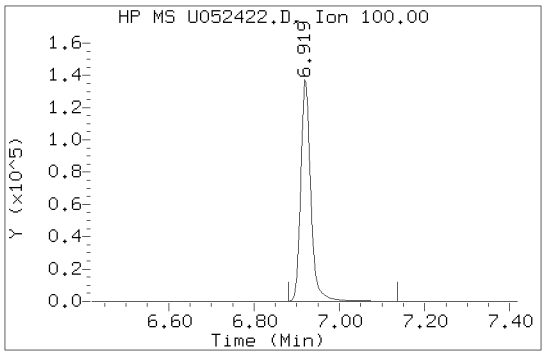
BEFORE

MASS
100
AREA
230041
HEIGHT
137211
21-Jun-2024
12:50
s
zaid



AFTER

MASS
100
AREA
230041
HEIGHT
137211
21-Jun-2024
12:50
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D Page 1
Report Date: 21-Jun-2024 12:14

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-MAY-2024 22:38
Operator : FT Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240524.b\8260C.m
Meth Date : 21-Jun-2024 12:14 VOA9.i Quant Type: ISTD
Cal Date : 22-MAY-2024 23:36 Cal File: V052211.D
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	248695	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	61669	50.0000	46.47
3 Chloromethane	50	1.295	1.295	(0.269)	205163	50.0000	44.68
4 Propionitrile	54	4.335	4.335	(0.900)	145753	500.000	582.71
5 Vinyl Chloride	62	1.378	1.378	(0.286)	98503	50.0000	43.73
6 Bromomethane	94	1.614	1.614	(0.335)	35965	50.0000	52.61
7 Chloroethane	64	1.700	1.700	(0.353)	67318	50.0000	42.39
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	119533	50.0000	46.50
9 Acrolein	56	2.262	2.262	(0.470)	9162	100.000	98.88
10 Acetone	43	2.409	2.409	(0.500)	64999	100.000	92.24
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	67718	50.0000	43.26
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	265007	1000.00	1015.75
13 Acetonitrile	39	2.671	2.671	(0.555)	97567	500.000	475.01
14 Allyl Chloride	41	2.671	2.671	(0.555)	235863	50.0000	52.05
15 Iodomethane	142	2.465	2.465	(0.512)	21055	100.000	70.71
16 Acrylonitrile	53	3.065	3.065	(0.636)	69878	100.000	108.45
17 Methylene Chloride	84	2.795	2.795	(0.580)	87039	50.0000	47.43
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	232169	50.0000	54.43
19 Carbon Disulfide	76	2.521	2.521	(0.524)	403542	100.000	85.19
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	75081	50.0000	41.85

21 Vinyl Acetate	43	4.339	4.339 (0.901)	96497	100.000	92.76
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	145618	50.0000	47.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.608	3.608	(0.749)	120478	50.0000	43.94
24	2-Butanone	43	4.264	4.264	(0.886)	93678	100.000	90.08
25	Methacrylonitrile	41	4.493	4.493	(0.933)	61060	50.0000	51.99(a)
26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	81356	50.0000	37.08
27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	89433	50.0000	41.54
28	Chloroform	83	4.571	4.571	(0.949)	149337	50.0000	46.98
29	Bromochloromethane	128	4.470	4.470	(0.928)	45765	50.0000	48.74
$ 30	Dibromofluoromethane	113	4.748	4.748	(0.986)	93120	50.0000	57.34
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	116765	50.0000	46.58
32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	111433	50.0000	43.69
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	118938	50.0000	47.07
34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	93352	50.0000	45.04
$ 35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	110848	50.0000	56.34
* 36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	361089	50.0000	
37	Benzene	78	5.138	5.138	(0.926)	346962	50.0000	46.70
38	Trichloroethene	130	5.786	5.786	(1.043)	87613	50.0000	43.77
39	Bromodichloromethane	83	6.277	6.277	(1.131)	101266	50.0000	46.06
40	Methyl Methacrylate	41	5.820	5.820	(1.209)	35078	50.0000	54.45
41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	54737	100.000	73.06
42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	93346	50.0000	46.42
43	2-Nitropropane	43	6.506	6.506	(1.351)	20931	50.0000	56.68
44	Dibromomethane	93	6.116	6.116	(1.102)	53224	50.0000	42.74
45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	200258	100.000	88.98
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	118342	50.0000	46.66
* 47	Chlorobenzene-d5	117	8.181	8.181	(1.000)	326235	50.0000	
$ 48	Toluene-d8	98	6.918	6.918	(0.846)	365042	50.0000	60.35
49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	135989	50.0000	51.05
50	Toluene	91	6.978	6.978	(0.853)	355521	50.0000	43.12
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	95519	50.0000	43.41
52	2-Hexanone	43	7.589	7.589	(0.928)	123131	100.000	81.70
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.899)	67635	50.0000	46.80
54	1,3-Dichloropropane	76	7.495	7.495	(0.916)	145494	50.0000	46.80
55	Dibromochloromethane	129	7.690	7.690	(0.940)	77650	50.0000	48.56
56	Tetrachloroethene	164	7.454	7.454	(0.911)	68914	50.0000	44.33
57	1,2-Dibromoethane	107	7.780	7.780	(0.951)	77421	50.0000	44.37
58	1-Chlorohexane	55	8.193	8.193	(1.476)	70679	50.0000	44.07
59	Chlorobenzene	112	8.208	8.208	(1.003)	226686	50.0000	46.85
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	77020	50.0000	45.25
61	Ethylbenzene	106	8.305	8.305	(1.015)	114514	50.0000	43.33
62	m,p-Xylenes	106	8.406	8.406	(1.027)	287539	100.000	88.60
63	o-Xylene	106	8.744	8.744	(1.069)	144312	50.0000	45.43
64	Styrene	104	8.759	8.759	(1.071)	245309	50.0000	45.52
66	Bromoform	173	8.916	8.916	(1.090)	47324	50.0000	43.65
67	Isopropylbenzene	105	9.059	9.059	(1.107)	358773	50.0000	45.54
68	1,1,2,2-Tetrachloroethane	83	9.325	9.325	(0.917)	109212	50.0000	45.58
$ 69	4-Bromofluorobenzene	95	9.190	9.190	(1.123)	133859	50.0000	59.74
* 70	1,4-Dichlorobenzene-d4	152	10.168	10.168	(1.000)	176655	50.0000	
71	1,2,3-Trichloropropane	75	9.359	9.359	(0.920)	107420	50.0000	44.06
72	trans-1,4-Dichloro-2-butene	53	9.374	9.374	(1.146)	21273	50.0000	40.46
73	n-Propylbenzene	91	9.411	9.411	(0.926)	414851	50.0000	45.46
74	Bromobenzene	156	9.314	9.314	(0.916)	97077	50.0000	41.78
75	1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	290980	50.0000	46.21

76	2-Chlorotoluene	91	9.479	9.479 (0.932)	251895	50.0000	42.60
77	4-Chlorotoluene	91	9.572	9.572 (0.941)	289176	50.0000	42.94

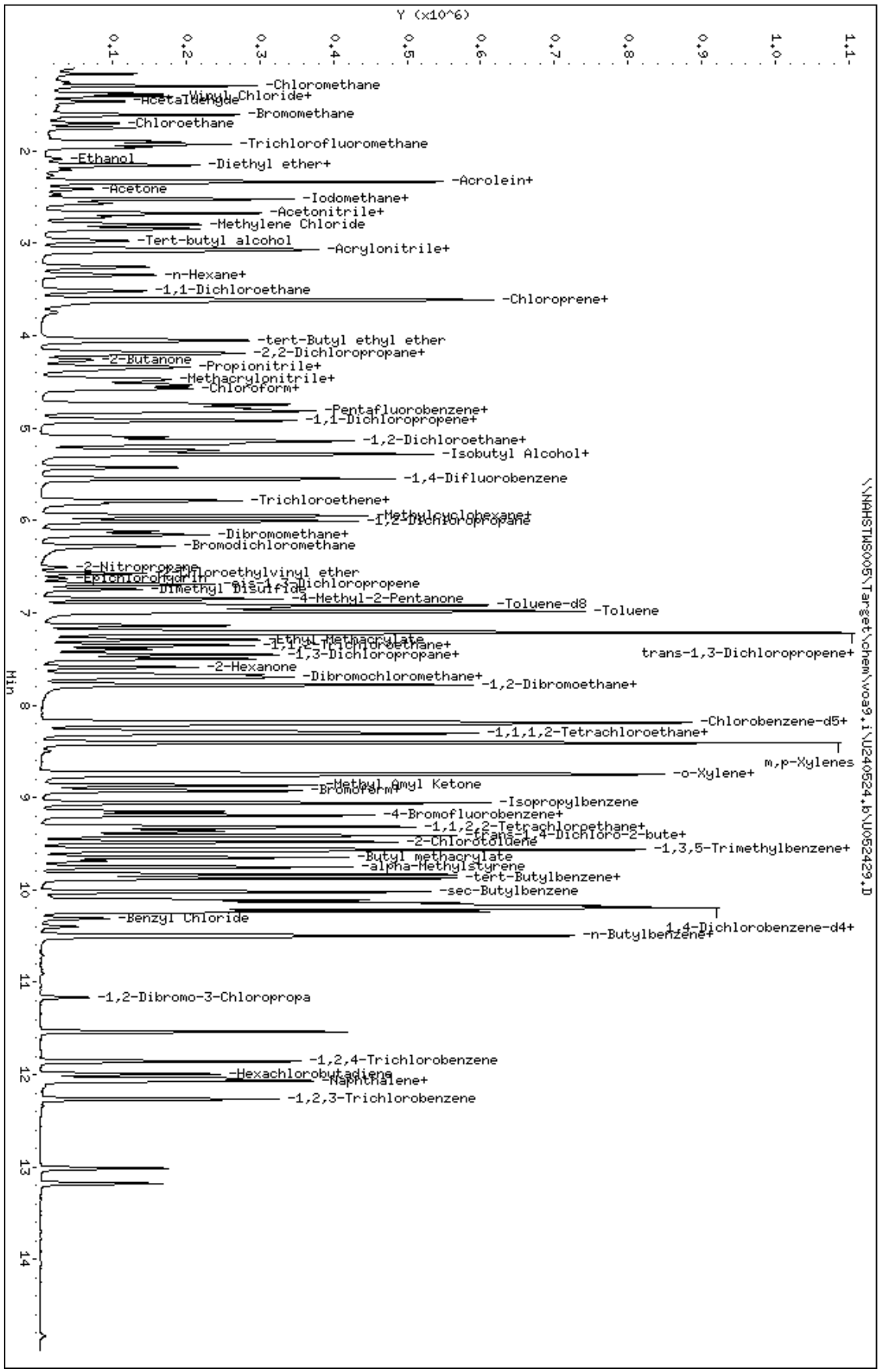
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	250972	50.0000	45.43	
79	1,2,4-Trimethylbenzene	105	9.876	9.876	(0.971)	285160	50.0000	44.14	
81	sec-Butylbenzene	105	10.018	10.018	(0.985)	335062	50.0000	45.64	
82	p-Isopropyltoluene	119	10.142	10.142	(0.997)	292932	50.0000	45.83	
83	1,3-Dichlorobenzene	146	10.112	10.112	(0.994)	170555	50.0000	45.70	
84	1,4-Dichlorobenzene	146	10.187	10.187	(1.002)	178745	50.0000	45.98	
86	Benzyl Chloride	91	10.311	10.311	(1.260)	61117	50.0000	29.95	
87	n-Butylbenzene	91	10.491	10.491	(1.032)	246327	50.0000	41.91	
88	1,2-Dichlorobenzene	146	10.502	10.502	(1.033)	167934	50.0000	45.73	
89	1,2-Dibromo-3-Chloropropane	155	11.165	11.165	(1.098)	12546	50.0000	42.22	
90	1,2,4-Trichlorobenzene	180	11.855	11.855	(1.166)	106237	50.0000	40.06	
91	Hexachlorobutadiene	225	11.994	11.994	(1.180)	44452	50.0000	41.69	
92	Naphthalene	128	12.065	12.065	(1.187)	252564	50.0000	44.89	
93	1,2,3-Trichlorobenzene	180	12.268	12.268	(1.206)	96057	50.0000	38.89	
146	Methyl acetate	43	2.712	2.712	(0.563)	94391	50.0000	48.55	
138	Freon TF	101	2.337	2.337	(0.485)	137352	50.0000	51.29	
141	Cyclohexane	56	4.781	4.781	(0.993)	130414	50.0000	47.59	
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	36611	100.000	114.50	
147	Methylcyclohexane	55	5.944	5.944	(1.071)	233121	50.0000	53.77	
135	1,4-Dioxane	88	6.165	6.165	(1.280)	19318	1000.00	1061.33	
132	n-Butanol	56	5.820	5.820	(1.209)	46417	1000.00	990.92	
136	n-Hexane	57	3.342	3.342	(0.694)	75341	50.0000	42.34	
139	Diethyl ether	59	2.146	2.146	(0.446)	64113	50.0000	54.18	
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	130639	1000.00	1175.29	
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	106047	1000.00	1170.77	
152	Amyl alcohol	42	7.394	7.394	(0.904)	55388	1000.00	1108.19	
156	Diisopropyl ether	45	3.619	3.619	(0.752)	309775	50.0000	54.21	
162	Butyl acrylate	55	8.729	8.729	(1.067)	172407	50.0000	49.96	
187	n-Amyl acetate	43	8.927	8.927	(1.091)	152914	50.0000	47.00	
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	413912	50.0000	53.52	
166	1,2,3-Trimethylbenzene	105	10.232	10.232	(1.006)	315473	50.0000	52.67	
167	Ethanol	45	2.086	2.086	(0.433)	20598	1000.00	1178.73	
172	tert-Butyl formate	59	5.239	5.239	(1.088)	135634	100.000	122.11	
173	3,3-Dimethyl-1-butanol	57	7.777	7.777	(0.951)	210009	1000.00	1197.04	
174	tert-Amyl methyl ether	73	5.284	5.284	(1.097)	278696	50.0000	50.67	
175	tert-Butyl ethyl ether	59	4.050	4.050	(0.841)	273515	50.0000	49.47	
176	tert-Amyl alcohol	59	5.239	5.239	(1.088)	135634	1000.00	1205.95	
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	599001	1000.00	1109.32	
140	1,3-Butadiene	54	1.404	1.404	(0.292)	45291	50.0000	46.09	
182	Epichlorohydrin	57	6.630	6.630	(1.195)	23594	200.000	203.23	
M 94	1,2-Dichloroethylene (total)	96				164514	100.000		(a)
145	alpha-Methylstyrene	118	9.752	9.752	(0.959)	116155	50.0000	44.88	
130	Ethyl Acetate	43	4.339	4.339	(0.901)	96497	50.0000	46.42	
131	Methyl Acrylate	55	4.369	4.369	(0.907)	117452	50.0000	54.96	
189	n-Butyl acetate	43	7.702	7.702	(0.941)	142780	50.0000	42.44	
134	Cyclohexanone	55	9.149	9.149	(0.900)	98904	1000.00	1046.60	
185	Isoprene	39	2.157	2.157	(0.448)	19962	50.0000	47.22	
188	Isopropyl acetate	43	5.284	5.284	(0.952)	263413	50.0000	50.40	
150	Allyl alcohol	57	3.342	3.342	(0.694)	75341	1000.00	846.90	
194	Acetaldehyde	44	1.460	1.460	(0.303)	103956	200.000	310.10	
195	Methyl Amyl Ketone	43	8.864	8.864	(1.083)	206121	50.0000	50.38	
200	Dimethyl Disulfide	94	6.746	6.746	(0.825)	51828	50.0000	46.11	

133 Ethyl Acrylate	55	5.944	5.944 (1.234)	233121	50.0000	53.16
163 Butyl methacrylate	41	9.647	9.647 (0.949)	107185	50.0000	54.18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
159 Propylene oxide	43	2.202	2.202	(0.457)	11850	100.000	90.25
203 2-Ethylhexyl Acrylate	55	12.039	12.039	(1.184)	90422	50.0000	52.10

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240524,b\U052429,D
Date : 24-MAY-2024 22:38
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240524.b\U052429.D
Inj Date : 24-MAY-2024 22:38
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

10450 Stancliff Rd. Suite 210
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alsglobal.com

WorkOrder: HS24060781

Groundwater Treatment Plant Bi-Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

10-Jul-2024

WorkOrder: HS24060781

ALS Environmental
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HS24060781 Groundwater Treatment Plant BiWeekly Samples COVER PAGE

ALS WO# HS24060781

HS24060781 Groundwater Treatment Plant BiWeekly Samples Final

ALS WO# HS24060781

10450 Stancliff Rd. Suite 210
Houston, TX 77099
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June 25, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24060781**

Laboratory Results for: **Groundwater Treatment Plant Bi-Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on Jun 13, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
Work Order: HS24060781

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24060781-01	LH18/24-SP650_061224	Water		12-Jun-2024 13:00	13-Jun-2024 09:12	☐
HS24060781-02	Trip Blank	Water		12-Jun-2024 00:00	13-Jun-2024 09:12	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Bi-Weekly Samples
Work Order: HS24060781

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

GCMS Volatiles by Method SW8260

Batch ID: R470367

Sample ID: VLCSW-240624

- Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.

WetChemistry by Method SW9056

Batch ID: R469691

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24060781
Sample ID: LH18/24-SP650_061224 Lab ID:HS24060781-01
Collection Date: 12-Jun-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:29
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	24-Jun-2024 20:29
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	24-Jun-2024 20:29
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:29
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	24-Jun-2024 20:29
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	24-Jun-2024 20:29
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	24-Jun-2024 20:29
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24060781
Sample ID: LH18/24-SP650_061224 Lab ID:HS24060781-01
Collection Date: 12-Jun-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
cis-1,2-Dichloroethene	**1.7**		**0.20**	**1.0**	**1.0**	**ug/L**	1	24-Jun-2024 20:29
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	24-Jun-2024 20:29
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	24-Jun-2024 20:29
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:29
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:29
Surr: 1,2-Dichloroethane-d4	*109*			**0**	*81-118*	*%REC*	*1*	*24-Jun-2024 20:29*
Surr: 4-Bromofluorobenzene	*98.3*			**0**	*85-114*	*%REC*	*1*	*24-Jun-2024 20:29*
Surr: Dibromofluoromethane	*112*			**0**	*80-119*	*%REC*	*1*	*24-Jun-2024 20:29*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*24-Jun-2024 20:29*
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**860**		**4.00**	**5.00**	**10.0**	**mg/L**	20	17-Jun-2024 16:43
Sulfate	**39.0**		**0.200**	**0.250**	**0.500**	**mg/L**	1	17-Jun-2024 16:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24060781
Sample ID: Trip Blank Lab ID:HS24060781-02
Collection Date: 12-Jun-2024 00:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:07
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	24-Jun-2024 20:07
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	24-Jun-2024 20:07
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:07
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	24-Jun-2024 20:07
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	24-Jun-2024 20:07
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	24-Jun-2024 20:07
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24060781
Sample ID: Trip Blank Lab ID:HS24060781-02
Collection Date: 12-Jun-2024 00:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	24-Jun-2024 20:07
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	24-Jun-2024 20:07
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	24-Jun-2024 20:07
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Trichloroethene	**1.0**		**0.20**	**1.0**	**1.0**	**ug/L**	1	24-Jun-2024 20:07
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	24-Jun-2024 20:07
Surr: 1,2-Dichloroethane-d4	*109*			**0**	*81-118*	*%REC*	*1*	*24-Jun-2024 20:07*
Surr: 4-Bromofluorobenzene	*98.9*			**0**	*85-114*	*%REC*	*1*	*24-Jun-2024 20:07*
Surr: Dibromofluoromethane	*111*			**0**	*80-119*	*%REC*	*1*	*24-Jun-2024 20:07*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*24-Jun-2024 20:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24060781

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R469691 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS24060781-01	LH18/24-SP650_061224	12 Jun 2024 13:00			17 Jun 2024 16:43	20
HS24060781-01	LH18/24-SP650_061224	12 Jun 2024 13:00			17 Jun 2024 16:37	1
Batch ID: R470367 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24060781-01	LH18/24-SP650_061224	12 Jun 2024 13:00			24 Jun 2024 20:29	1
HS24060781-02	Trip Blank	12 Jun 2024 00:00			24 Jun 2024 20:07	1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24060781

QC BATCH REPORT

Batch ID: R470367 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240624** Units: **ug/L** Analysis Date: **24-Jun-2024 13:37**
Client ID: Run ID: **VOA9_470367** SeqNo: **8096793** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1.0	1.0								U
1,1,1-Trichloroethane	1.0	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	1.0	1.0								U
1,1-Dichloroethane	1.0	1.0								U
1,1-Dichloroethene	1.0	1.0								U
1,1-Dichloropropene	1.0	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	1.0	1.0								U
1,2-Dibromo-3-chloropropane	1.0	1.0								U
1,2-Dibromoethane	1.0	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	1.0	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	1.0	1.0								U
1,3-Dichlorobenzene	1.0	1.0								U
1,3-Dichloropropane	1.0	1.0								U
1,4-Dichlorobenzene	1.0	1.0								U
2,2-Dichloropropane	1.0	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	1.0	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	1.0	1.0								U
4-Isopropyltoluene	1.0	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	1.0	1.0								U
Bromobenzene	1.0	1.0								U
Bromochloromethane	1.0	1.0								U
Bromodichloromethane	1.0	1.0								U
Bromoform	1.0	1.0								U
Bromomethane	1.0	1.0								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24060781

QC BATCH REPORT

Batch ID: R470367 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240624** Units: **ug/L** Analysis Date: **24-Jun-2024 13:37**
Client ID: Run ID: **VOA9_470367** SeqNo: **8096793** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	1.0	1.0								U
Chloroethane	1.0	1.0								U
Chloroform	1.0	1.0								U
Chloromethane	1.0	1.0								U
cis-1,2-Dichloroethene	1.0	1.0								U
cis-1,3-Dichloropropene	1.0	1.0								U
Dibromochloromethane	1.0	1.0								U
Dibromomethane	1.0	1.0								U
Dichlorodifluoromethane	1.0	1.0								U
Ethylbenzene	1.0	1.0								U
Hexachlorobutadiene	1.0	1.0								U
Isopropylbenzene	1.0	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	1.0	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	1.0	1.0								U
o-Xylene	1.0	1.0								U
sec-Butylbenzene	1.0	1.0								U
Styrene	1.0	1.0								U
tert-Butylbenzene	1.0	1.0								U
Tetrachloroethene	1.0	1.0								U
Toluene	1.0	1.0								U
trans-1,2-Dichloroethene	1.0	1.0								U
trans-1,3-Dichloropropene	1.0	1.0								U
Trichloroethene	1.0	1.0								U
Trichlorofluoromethane	1.0	1.0								U
Vinyl chloride	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*54.19*	*35*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.95*	*35*	*50*	*0*	*99.9*	*85 - 114*				
Surr: Dibromofluoromethane	*55.18*	*35*	*50*	*0*	*110*	*80 - 119*				
Surr: Toluene-d8	*55.87*	*35*	*50*	*0*	*112*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24060781

QC BATCH REPORT

Batch ID: R470367 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240624** Units: **ug/L** Analysis Date: **24-Jun-2024 12:32**
Client ID: Run ID: **VOA9_470367** SeqNo: **8096791** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	17.37	1.0	20	0	86.8	78 - 124				
1,1,1-Trichloroethane	18.82	1.0	20	0	94.1	74 - 131				
1,1,2,2-Tetrachloroethane	18.13	1.0	20	0	90.6	71 - 121				
1,1,2-Trichloroethane	17.34	1.0	20	0	86.7	80 - 119				
1,1-Dichloroethane	17.77	1.0	20	0	88.8	77 - 125				
1,1-Dichloroethene	17.76	1.0	20	0	88.8	71 - 131				
1,1-Dichloropropene	17.97	1.0	20	0	89.8	78 - 125				
1,2,3-Trichlorobenzene	18.12	1.0	20	0	90.6	69 - 129				
1,2,3-Trichloropropane	16.08	1.0	20	0	80.4	73 - 122				
1,2,4-Trichlorobenzene	17.72	1.0	20	0	88.6	69 - 130				
1,2,4-Trimethylbenzene	16.11	1.0	20	0	80.6	76 - 124				
1,2-Dibromo-3-chloropropane	15.77	1.0	20	0	78.9	62 - 128				
1,2-Dibromoethane	17.59	1.0	20	0	88.0	77 - 121				
1,2-Dichlorobenzene	16.8	1.0	20	0	84.0	80 - 119				
1,2-Dichloroethane	18.13	1.0	20	0	90.7	73 - 128				
1,2-Dichloropropane	16.98	1.0	20	0	84.9	78 - 122				
1,3,5-Trimethylbenzene	16.6	1.0	20	0	83.0	75 - 124				
1,3-Dichlorobenzene	16.77	1.0	20	0	83.8	80 - 119				
1,3-Dichloropropane	17.19	1.0	20	0	85.9	80 - 119				
1,4-Dichlorobenzene	18.24	1.0	20	0	91.2	79 - 118				
2,2-Dichloropropane	17.88	1.0	20	0	89.4	60 - 139				
2-Butanone	36.56	2.0	40	0	91.4	56 - 143				
2-Chlorotoluene	17.34	1.0	20	0	86.7	79 - 122				
2-Hexanone	35.6	2.0	40	0	89.0	57 - 139				
4-Chlorotoluene	17.52	1.0	20	0	87.6	78 - 122				
4-Isopropyltoluene	17.2	1.0	20	0	86.0	77 - 127				
4-Methyl-2-pentanone	32.08	2.0	40	0	80.2	67 - 130				
Acetone	33.23	2.0	40	0	83.1	39 - 160				
Benzene	16.8	1.0	20	0	84.0	79 - 120				
Bromobenzene	17.62	1.0	20	0	88.1	80 - 120				
Bromochloromethane	16.8	1.0	20	0	84.0	78 - 123				
Bromodichloromethane	17.64	1.0	20	0	88.2	79 - 125				
Bromoform	16.04	1.0	20	0	80.2	66 - 130				
Bromomethane	22.7	1.0	20	0	114	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24060781

QC BATCH REPORT

Batch ID: R470367 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240624** Units: **ug/L** Analysis Date: **24-Jun-2024 12:32**
Client ID: Run ID: **VOA9_470367** SeqNo: **8096791** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	35.69	2.0	40	0	89.2	64 - 133				
Carbon tetrachloride	18.3	1.0	20	0	91.5	72 - 136				
Chlorobenzene	18.32	1.0	20	0	91.6	82 - 118				
Chloroethane	16.48	1.0	20	0	82.4	60 - 138				
Chloroform	17.79	1.0	20	0	88.9	79 - 124				
Chloromethane	15.69	1.0	20	0	78.5	50 - 139				
cis-1,2-Dichloroethene	17.38	1.0	20	0	86.9	78 - 123				
cis-1,3-Dichloropropene	17.13	1.0	20	0	85.6	75 - 124				
Dibromochloromethane	19.33	1.0	20	0	96.6	74 - 126				
Dibromomethane	17.49	1.0	20	0	87.5	79 - 123				
Dichlorodifluoromethane	17.28	1.0	20	0	86.4	32 - 152				
Ethylbenzene	17.64	1.0	20	0	88.2	79 - 121				
Hexachlorobutadiene	19.9	1.0	20	0	99.5	66 - 134				
Isopropylbenzene	18.86	1.0	20	0	94.3	72 - 131				
m,p-Xylene	37.52	2.0	40	0	93.8	80 - 121				
Methylene chloride	17.64	2.0	20	0	88.2	74 - 124				
Naphthalene	16.37	1.0	20	0	81.8	61 - 128				
n-Butylbenzene	17.44	1.0	20	0	87.2	75 - 128				
n-Propylbenzene	18.69	1.0	20	0	93.5	76 - 126				
o-Xylene	18.42	1.0	20	0	92.1	78 - 122				
sec-Butylbenzene	18.84	1.0	20	0	94.2	77 - 126				
Styrene	18.04	1.0	20	0	90.2	78 - 123				
tert-Butylbenzene	18.6	1.0	20	0	93.0	78 - 124				
Tetrachloroethene	19.1	1.0	20	0	95.5	74 - 129				
Toluene	18.01	1.0	20	0	90.0	80 - 121				
trans-1,2-Dichloroethene	18.17	1.0	20	0	90.9	75 - 124				
trans-1,3-Dichloropropene	16.56	1.0	20	0	82.8	73 - 127				
Trichloroethene	17.96	1.0	20	0	89.8	79 - 123				
Trichlorofluoromethane	18.9	1.0	20	0	94.5	65 - 141				
Vinyl chloride	17.49	1.0	20	0	87.5	58 - 137				
Surr: 1,2-Dichloroethane-d4	*52.37*	*35*	*50*	*0*	*105*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*53.99*	*35*	*50*	*0*	*108*	*85 - 114*				
Surr: Dibromofluoromethane	*56.25*	*35*	*50*	*0*	*112*	*80 - 119*				
Surr: Toluene-d8	*55.95*	*35*	*50*	*0*	*112*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24060781

QC BATCH REPORT

Batch ID: R470367 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240624** Units: **ug/L** Analysis Date: **24-Jun-2024 12:54**
Client ID: Run ID: **VOA9_470367** SeqNo: **8096792** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	17.35	1.0	20	0	86.8	78 - 124	17.37	0.0978	20	
1,1,1-Trichloroethane	17.73	1.0	20	0	88.6	74 - 131	18.82	5.98	20	
1,1,2,2-Tetrachloroethane	17.98	1.0	20	0	89.9	71 - 121	18.13	0.825	20	
1,1,2-Trichloroethane	17.51	1.0	20	0	87.5	80 - 119	17.34	0.961	20	
1,1-Dichloroethane	16.99	1.0	20	0	84.9	77 - 125	17.77	4.5	20	
1,1-Dichloroethene	15.72	1.0	20	0	78.6	71 - 131	17.76	12.2	20	
1,1-Dichloropropene	16.72	1.0	20	0	83.6	78 - 125	17.97	7.18	20	
1,2,3-Trichlorobenzene	16.94	1.0	20	0	84.7	69 - 129	18.12	6.72	20	
1,2,3-Trichloropropane	17.08	1.0	20	0	85.4	73 - 122	16.08	6.04	20	
1,2,4-Trichlorobenzene	16.48	1.0	20	0	82.4	69 - 130	17.72	7.26	20	
1,2,4-Trimethylbenzene	15.47	1.0	20	0	77.4	76 - 124	16.11	4.03	20	
1,2-Dibromo-3-chloropropane	15.93	1.0	20	0	79.7	62 - 128	15.77	1.01	20	
1,2-Dibromoethane	17.56	1.0	20	0	87.8	77 - 121	17.59	0.172	20	
1,2-Dichlorobenzene	16.23	1.0	20	0	81.2	80 - 119	16.8	3.44	20	
1,2-Dichloroethane	17.32	1.0	20	0	86.6	73 - 128	18.13	4.56	20	
1,2-Dichloropropane	16.62	1.0	20	0	83.1	78 - 122	16.98	2.18	20	
1,3,5-Trimethylbenzene	15.98	1.0	20	0	79.9	75 - 124	16.6	3.77	20	
1,3-Dichlorobenzene	16.15	1.0	20	0	80.8	80 - 119	16.77	3.75	20	
1,3-Dichloropropane	17.03	1.0	20	0	85.2	80 - 119	17.19	0.909	20	
1,4-Dichlorobenzene	17.66	1.0	20	0	88.3	79 - 118	18.24	3.22	20	
2,2-Dichloropropane	16.77	1.0	20	0	83.9	60 - 139	17.88	6.42	20	
2-Butanone	34.48	2.0	40	0	86.2	56 - 143	36.56	5.84	20	
2-Chlorotoluene	16.39	1.0	20	0	82.0	79 - 122	17.34	5.64	20	
2-Hexanone	34.04	2.0	40	0	85.1	57 - 139	35.6	4.46	20	
4-Chlorotoluene	16.59	1.0	20	0	83.0	78 - 122	17.52	5.43	20	
4-Isopropyltoluene	16.12	1.0	20	0	80.6	77 - 127	17.2	6.51	20	
4-Methyl-2-pentanone	32.16	2.0	40	0	80.4	67 - 130	32.08	0.24	20	
Acetone	29.7	2.0	40	0	74.3	39 - 160	33.23	11.2	20	
Benzene	16	1.0	20	0	80.0	79 - 120	16.8	4.93	20	
Bromobenzene	16.98	1.0	20	0	84.9	80 - 120	17.62	3.66	20	
Bromochloromethane	16.55	1.0	20	0	82.7	78 - 123	16.8	1.52	20	
Bromodichloromethane	16.93	1.0	20	0	84.6	79 - 125	17.64	4.11	20	
Bromoform	17.16	1.0	20	0	85.8	66 - 130	16.04	6.74	20	
Bromomethane	19.88	1.0	20	0	99.4	53 - 141	22.7	13.3	20	

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ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24060781

QC BATCH REPORT

Batch ID: R470367 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240624** Units: **ug/L** Analysis Date: **24-Jun-2024 12:54**
Client ID: Run ID: **VOA9_470367** SeqNo: **8096792** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	32.06	2.0	40	0	80.2	64 - 133	35.69	10.7	20	
Carbon tetrachloride	17.32	1.0	20	0	86.6	72 - 136	18.3	5.5	20	
Chlorobenzene	17.79	1.0	20	0	89.0	82 - 118	18.32	2.9	20	
Chloroethane	15.56	1.0	20	0	77.8	60 - 138	16.48	5.71	20	
Chloroform	17.54	1.0	20	0	87.7	79 - 124	17.79	1.39	20	
Chloromethane	14.72	1.0	20	0	73.6	50 - 139	15.69	6.42	20	
cis-1,2-Dichloroethene	17.39	1.0	20	0	86.9	78 - 123	17.38	0.0427	20	
cis-1,3-Dichloropropene	16.56	1.0	20	0	82.8	75 - 124	17.13	3.38	20	
Dibromochloromethane	18.05	1.0	20	0	90.3	74 - 126	19.33	6.82	20	
Dibromomethane	17.13	1.0	20	0	85.6	79 - 123	17.49	2.13	20	
Dichlorodifluoromethane	15.19	1.0	20	0	76.0	32 - 152	17.28	12.9	20	
Ethylbenzene	16.82	1.0	20	0	84.1	79 - 121	17.64	4.75	20	
Hexachlorobutadiene	17.32	1.0	20	0	86.6	66 - 134	19.9	13.8	20	
Isopropylbenzene	17.72	1.0	20	0	88.6	72 - 131	18.86	6.25	20	
m,p-Xylene	35.65	2.0	40	0	89.1	80 - 121	37.52	5.12	20	
Methylene chloride	16.87	2.0	20	0	84.3	74 - 124	17.64	4.49	20	
Naphthalene	15.91	1.0	20	0	79.6	61 - 128	16.37	2.82	20	
n-Butylbenzene	16.13	1.0	20	0	80.6	75 - 128	17.44	7.8	20	
n-Propylbenzene	17.46	1.0	20	0	87.3	76 - 126	18.69	6.82	20	
o-Xylene	17.98	1.0	20	0	89.9	78 - 122	18.42	2.38	20	
sec-Butylbenzene	17.1	1.0	20	0	85.5	77 - 126	18.84	9.68	20	
Styrene	18.18	1.0	20	0	90.9	78 - 123	18.04	0.786	20	
tert-Butylbenzene	17.4	1.0	20	0	87.0	78 - 124	18.6	6.67	20	
Tetrachloroethene	18.06	1.0	20	0	90.3	74 - 129	19.1	5.6	20	
Toluene	17.01	1.0	20	0	85.1	80 - 121	18.01	5.68	20	
trans-1,2-Dichloroethene	16.45	1.0	20	0	82.3	75 - 124	18.17	9.93	20	
trans-1,3-Dichloropropene	16.68	1.0	20	0	83.4	73 - 127	16.56	0.741	20	
Trichloroethene	16.72	1.0	20	0	83.6	79 - 123	17.96	7.12	20	
Trichlorofluoromethane	17.15	1.0	20	0	85.8	65 - 141	18.9	9.7	20	
Vinyl chloride	15.31	1.0	20	0	76.6	58 - 137	17.49	13.3	20	
Surr: 1,2-Dichloroethane-d4	*52.8*	*35*	*50*	*0*	*106*	*81 - 118*	*52.37*	*0.817*	*20*	
Surr: 4-Bromofluorobenzene	*55.99*	*35*	*50*	*0*	*112*	*85 - 114*	*53.99*	*3.64*	*20*	
Surr: Dibromofluoromethane	*57.06*	*35*	*50*	*0*	*114*	*80 - 119*	*56.25*	*1.43*	*20*	
Surr: Toluene-d8	*55.62*	*35*	*50*	*0*	*111*	*89 - 112*	*55.95*	*0.586*	*20*	

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ALS Houston, US Date: 25-Jun-24

Client:	Bhate Environmental Associates, Inc.
Project:	Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder:	HS24060781

QC BATCH REPORT

Batch ID:	**R470367 (0)**	**Instrument:**	**VOA9**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch:	HS24060781-01 HS24060781-02

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ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24060781

QC BATCH REPORT

Batch ID: R469691 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **17-Jun-2024 14:22**
Client ID: Run ID: **ICS-Integrion_469691** SeqNo: **8082091** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **17-Jun-2024 14:34**
Client ID: Run ID: **ICS-Integrion_469691** SeqNo: **8082092** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	21.05	0.500	20	0	105	80 - 120				
Sulfate	21.84	0.500	20	0	109	80 - 120				

MS Sample ID: **HS24060406-01MS** Units: **mg/L** Analysis Date: **17-Jun-2024 17:18**
Client ID: Run ID: **ICS-Integrion_469691** SeqNo: **8082112** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	21.61	0.500	10	11.8	98.1	80 - 120				
Sulfate	10.87	0.500	10	0.3507	105	80 - 120				

MSD Sample ID: **HS24060406-01MSD** Units: **mg/L** Analysis Date: **17-Jun-2024 17:24**
Client ID: Run ID: **ICS-Integrion_469691** SeqNo: **8082113** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	21.64	0.500	10	11.8	98.4	80 - 120	21.61	0.116	20	
Sulfate	10.93	0.500	10	0.3507	106	80 - 120	10.87	0.526	20	

The following samples were analyzed in this batch: HS24060781-01

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ALS Houston, US Date: 25-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: **HS24060781**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2024
Maine	2024017	23-Jun-2026
Maryland	343; 2023-2024	30-Jun-2024
Michigan	9971	30-Apr-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

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ALS Houston, US Date: 25-Jun-24

Sample Receipt Checklist

Work Order ID: HS24060781 **Date/Time Received:** **13-Jun-2024 09:12**

Client Name: Bhate Environmental **Received by:** **Paresh M. Giga**

Completed By: */S/ Belinda Gomez* (eSignature) 13-Jun-2024 13:52 (Date/Time) **Reviewed by:** (eSignature) (Date/Time)

Matrices: **w** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	2.9uc/3.0c	ir31
Cooler(s)/Kit(s):	med red	
Date/Time sample(s) sent to storage:	6/13/24 1350	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: Label list LH18/24-SP650_061224 coc list LH18/24-SP650_061324 collection date on label list 6/12/24 but coc list 6/13/24

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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HS24060781-MSVOA-SW8260

ALS WO# HS24060781

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060781

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/10/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
Workorder: HS24060781

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-470367

LH18/24-SP650_061224

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060781-01	Water	06/24/24 20:29	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62425.D	54	50	109		81-118
4-Bromofluorobenzene	U62425.D	49	50	98.3		85-114
Dibromofluoromethane	U62425.D	56	50	112		80-119
Toluene-d8	U62425.D	55	50	110		89-112

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060781-02	Water	06/24/24 20:07	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62424.D	54	50	109		81-118
4-Bromofluorobenzene	U62424.D	49	50	98.9		85-114
Dibromofluoromethane	U62424.D	56	50	111		80-119
Toluene-d8	U62424.D	56	50	111		89-112

VBLKW-240624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240624	Aqueous	06/24/24 13:37	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62406.D	54.19	50	108		81-118
4-Bromofluorobenzene	U62406.D	49.95	50	99.9		85-114
Dibromofluoromethane	U62406.D	55.18	50	110		80-119
Toluene-d8	U62406.D	55.87	50	112		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
Workorder: HS24060781

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-470367

VLCSDW-240624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240624	Aqueous	06/24/24 12:54	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62404.D	52.8	50	106		81-118
4-Bromofluorobenzene	U62404.D	55.99	50	112		85-114
Dibromofluoromethane	U62404.D	57.06	50	114		80-119
Toluene-d8	U62404.D	55.62	50	111		89-112

VLCSW-240624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240624	Aqueous	06/24/24 12:32	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62403.D	52.37	50	105		81-118
4-Bromofluorobenzene	U62403.D	53.99	50	108		85-114
Dibromofluoromethane	U62403.D	56.25	50	112		80-119
Toluene-d8	U62403.D	55.95	50	112		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	06/24/24 11:05	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U62402.D	52.35	50	105		80-120
4-Bromofluorobenzene	U62402.D	54.29	50	109		80-120
Dibromofluoromethane	U62402.D	56.12	50	112		80-120
Toluene-d8	U62402.D	57.68	50	115		80-120

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060781

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/10/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

SAMPLENUM VLCSW-240624

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_470367			VLCSW-240624			VLCSDW-240624					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/24/24 Run Time 12:32			Run Date 06/24/24 Run Time 12:54					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	20	17.37	87		17.35	87		20	0.0978	
1,1,1-Trichloroethane	74-131	20	18.82	94		17.73	89		20	5.98	
1,1,2,2-Tetrachloroethane	71-121	20	18.13	91		17.98	90		20	0.825	
1,1,2-Trichloroethane	80-119	20	17.34	87		17.51	88		20	0.961	
1,1-Dichloroethane	77-125	20	17.77	89		16.99	85		20	4.5	
1,1-Dichloroethene	71-131	20	17.76	89		15.72	79		20	12.2	
1,1-Dichloropropene	78-125	20	17.97	90		16.72	84		20	7.18	
1,2,3-Trichlorobenzene	69-129	20	18.12	91		16.94	85		20	6.72	
1,2,3-Trichloropropane	73-122	20	16.08	80		17.08	85		20	6.04	
1,2,4-Trichlorobenzene	69-130	20	17.72	89		16.48	82		20	7.26	
1,2,4-Trimethylbenzene	76-124	20	16.11	81		15.47	77		20	4.03	
1,2-Dibromo-3-chloropropane	62-128	20	15.77	79		15.93	80		20	1.01	
1,2-Dibromoethane	77-121	20	17.59	88		17.56	88		20	0.172	
1,2-Dichlorobenzene	80-119	20	16.8	84		16.23	81		20	3.44	
1,2-Dichloroethane	73-128	20	18.13	91		17.32	87		20	4.56	
1,2-Dichloropropane	78-122	20	16.98	85		16.62	83		20	2.18	
1,3,5-Trimethylbenzene	75-124	20	16.6	83		15.98	80		20	3.77	
1,3-Dichlorobenzene	80-119	20	16.77	84		16.15	81		20	3.75	
1,3-Dichloropropane	80-119	20	17.19	86		17.03	85		20	0.909	
1,4-Dichlorobenzene	79-118	20	18.24	91		17.66	88		20	3.22	
2,2-Dichloropropane	60-139	20	17.88	89		16.77	84		20	6.42	
2-Butanone	56-143	40	36.56	91		34.48	86		20	5.84	
2-Chlorotoluene	79-122	20	17.34	87		16.39	82		20	5.64	
2-Hexanone	57-139	40	35.6	89		34.04	85		20	4.46	
4-Chlorotoluene	78-122	20	17.52	88		16.59	83		20	5.43	
4-Isopropyltoluene	77-127	20	17.2	86		16.12	81		20	6.51	
4-Methyl-2-pentanone	67-130	40	32.08	80		32.16	80		20	0.24	
Acetone	39-160	40	33.23	83		29.7	74		20	11.2	
Benzene	79-120	20	16.8	84		16	80		20	4.93	
Bromobenzene	80-120	20	17.62	88		16.98	85		20	3.66	
Bromochloromethane	78-123	20	16.8	84		16.55	83		20	1.52	
Bromodichloromethane	79-125	20	17.64	88		16.93	85		20	4.11	
Bromoform	66-130	20	16.04	80		17.16	86		20	6.74	
Bromomethane	53-141	20	22.7	114		19.88	99		20	13.3	
Carbon disulfide	64-133	40	35.69	89		32.06	80		20	10.7	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder **HS24060781**

SAMPLENUM VLCSW-240624

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_470367			VLCSW-240624			VLCSDW-240624					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/24/24 Run Time 12:32			Run Date 06/24/24 Run Time 12:54					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	18.3	92		17.32	87		20	5.5	
Chlorobenzene	82-118	20	18.32	92		17.79	89		20	2.9	
Chloroethane	60-138	20	16.48	82		15.56	78		20	5.71	
Chloroform	79-124	20	17.79	89		17.54	88		20	1.39	
Chloromethane	50-139	20	15.69	78		14.72	74		20	6.42	
cis-1,2-Dichloroethene	78-123	20	17.38	87		17.39	87		20	0.0427	
cis-1,3-Dichloropropene	75-124	20	17.13	86		16.56	83		20	3.38	
Dibromochloromethane	74-126	20	19.33	97		18.05	90		20	6.82	
Dibromomethane	79-123	20	17.49	88		17.13	86		20	2.13	
Dichlorodifluoromethane	32-152	20	17.28	86		15.19	76		20	12.9	
Ethylbenzene	79-121	20	17.64	88		16.82	84		20	4.75	
Hexachlorobutadiene	66-134	20	19.9	100		17.32	87		20	13.8	
Isopropylbenzene	72-131	20	18.86	94		17.72	89		20	6.25	
m,p-Xylene	80-121	40	37.52	94		35.65	89		20	5.12	
Methylene chloride	74-124	20	17.64	88		16.87	84		20	4.49	
Naphthalene	61-128	20	16.37	82		15.91	80		20	2.82	
n-Butylbenzene	75-128	20	17.44	87		16.13	81		20	7.8	
n-Propylbenzene	76-126	20	18.69	94		17.46	87		20	6.82	
o-Xylene	78-122	20	18.42	92		17.98	90		20	2.38	
sec-Butylbenzene	77-126	20	18.84	94		17.1	86		20	9.68	
Styrene	78-123	20	18.04	90		18.18	91		20	0.786	
tert-Butylbenzene	78-124	20	18.6	93		17.4	87		20	6.67	
Tetrachloroethene	74-129	20	19.1	96		18.06	90		20	5.6	
Toluene	80-121	20	18.01	90		17.01	85		20	5.68	
trans-1,2-Dichloroethene	75-124	20	18.17	91		16.45	82		20	9.93	
trans-1,3-Dichloropropene	73-127	20	16.56	83		16.68	83		20	0.741	
Trichloroethene	79-123	20	17.96	90		16.72	84		20	7.12	
Trichlorofluoromethane	65-141	20	18.9	94		17.15	86		20	9.7	
Vinyl chloride	58-137	20	17.49	88		15.31	77		20	13.3	

right solutions.
right partner.

Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060781

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/10/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	HS24060781	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240624	Aqueous	06/24/24 13:37	R470367	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240624	VLCSW-240624	LCS	06/24/24 12:32	R470367	VOA9	U62403.D
VLCSDW-240624	VLCSDW-240624	LCSD	06/24/24 12:54	R470367	VOA9	U62404.D
Trip Blank	HS24060781-02	SAMP	06/24/24 20:07	R470367	VOA9	U62424.D
LH18/24-SP650_061224	HS24060781-01	SAMP	06/24/24 20:29	R470367	VOA9	U62425.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060781

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/10/2024

ALS Environmental–Houston Laboratory
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U62001 BFB Injection Date: 06/20/24

Instrument ID: VOA9 BFB Injection Time: 1102

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.0
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	88.5
175	5.0 - 9.0% of mass 174	7.6 (8.6)1
176	95.0 - 101.0% of mass 174	87.1 (98.5)1
177	5.0 - 9.0% of mass 176	5.8 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	U62002	06/20/24	1123
02	VSTD00.5	VSTD00.5	U62003	06/20/24	1144
03	VSTD001	VSTD001	U62004	06/20/24	1206
04	VSTD002	VSTD002	U62005	06/20/24	1227
05	VSTD005	VSTD005	U62006	06/20/24	1249
06	VSTD020	VSTD020	U62007	06/20/24	1310
07	VSTD050	VSTD050	U62008	06/20/24	1332
08	VSTD100	VSTD100	U62009	06/20/24	1353
09	VSTD150	VSTD150	U62010	06/20/24	1415
10	VSTD200	VSTD200	U62011	06/20/24	1436
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

page 1 of 1

FORM V VOA

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U62013 BFB Injection Date: 06/20/24

Instrument ID: VOA9 BFB Injection Time: 1519

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	82.3
175	5.0 - 9.0% of mass 174	7.4 (8.9)1
176	95.0 - 101.0% of mass 174	81.1 (98.6)1
177	5.0 - 9.0% of mass 176	5.8 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	U62014	06/20/24	1540
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Report Date : 29-Jun-2024 12:53 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
End Cal Date : 20-JUN-2024 14:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62002.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Dichlorodifluoromethane	+++++ / 0.37999	0.30892 / 0.35637	0.25567 / 0.37423	0.37587 / 0.37380	0.41361	0.37532	AVRG		0.35709		13.12952
3 Chloromethane	+++++ / 198562	7597 / 359325	8737 / 541083	13423 / 722213	23869	86062	QUAD	-0.03052	1.26050	0.07990	0.99985
4 Propionitrile	+++++ / 121156	1664 / 233070	2871 / 353474	5919 / 516743	10856	47549	QUAD	-0.13748	22.31330	-0.80968	0.99969

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
5 Vinyl Chloride	+++++	1139	1918	4934	11209	45157						
	112466	214186	335402	475593			LINR	0.00254	0.44441		0.99976	
6 Bromomethane	+++++	1451	1849	2855	5361	19198						
	44204	79022	130142	186065			QUAD	-0.04761	6.50572	-1.04271	0.99926	
7 Chloroethane	+++++	989	1738	3881	7341	29401						
	72630	133622	208991	287756			QUAD	-0.01355	3.60280	0.08858	0.99978	
8 Trichlorofluoromethane	+++++	0.42767	0.32944	0.50453	0.55127	0.51761						
	0.50294	0.48543	0.50100	0.49017			AVRG		0.47889		13.53109	
9 Acrolein	+++++	+++++	371	728	1238	3234						
	8374	15190	24292	36445			QUAD	-0.14205	72.27362	-92.75420	0.99936	<-
10 Acetone	+++++	2584	3054	5656	8644	28441						
	68845	133780	182887	250030			LINR	-0.15618	0.11861		0.99651	
11 1,1-Dichloroethene	+++++	0.30300	0.25356	0.34834	0.31783	0.29582						
	0.28710	0.27514	0.27226	0.27212			AVRG		0.29169		9.80778	

ALS Laboratory Group

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Isobutyl Alcohol	+++++	0.05637	0.05307	0.05174	0.04489	0.04533						
	0.04802	0.04718	0.04811	0.04951			AVRG		0.04936		7.61262	
13 Acetonitrile	+++++	1086	1990	4085	9127	39916						
	103396	192653	280872	398444			LINR	-0.20894	0.03742		0.99925	
14 Allyl Chloride	+++++	3115	5257	9919	21197	93616						
	235927	444263	651842	929291			QUAD	-0.00979	1.10974	0.01255	0.99958	
15 Iodomethane	+++++	+++++	1546	2557	4981	20114						
	56866	128699	236209	+++++			QUAD	0.00734	9.44710	-3.25498	0.99976	<-
16 Acrylonitrile	+++++	1025	1767	3090	6082	25226						
	63044	118455	179501	262510			LINR	-0.01022	0.12136		0.99924	
17 Methylene Chloride	+++++	2895	3728	6118	11392	38417						
	91024	159588	251424	332519			QUAD	-0.03191	2.85164	0.27549	0.99918	
18 Methyl tert-butyl ether	+++++	2745	4855	9527	19601	87519						
	217335	417535	637081	938308			LINR	0.00839	0.86719		0.99901	

Report Date : 29-Jun-2024 12:53 Page 4

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++	0.82787	0.68469	0.86372	0.81966	0.80309					
	0.83073	0.80299	0.80057	0.80117			AVRG		0.80383		6.11839
20 trans-1,2-Dichloroethene	+++++	1102	1556	3775	8011	32296					
	79342	147881	230456	321804			QUAD	-0.01251	3.31853	-0.00504	0.99985
21 Vinyl Acetate	+++++	1114	2234	3669	8018	34793					
	90820	169891	263548	370669			LINR	-0.00640	0.17384		0.99986
22 1,1-Dichloroethane	+++++	1965	3062	7303	15421	62083					
	151105	280383	435781	606734			LINR	-0.01591	0.56953		0.99983
23 Chloroprene	+++++	1330	2091	5563	12911	51433					
	127812	239330	377420	525056			LINR	-0.00506	0.49345		0.99981
24 2-Butanone	+++++	1392	2089	3511	7854	33931					
	88567	168677	264601	368971			LINR	0.00291	0.17357		0.99987
25 Methacrylonitrile	+++++	715	1366	1915	4226	19125					
	53283	109481	168016	230621			QUAD	0.01665	4.47297	0.10311	0.99967

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 2,2-Dichloropropane	+++++ / 116047	1204 / 221563	1823 / 352166	4589 / 497369	10989	44921	LINR	0.01124	0.46578		0.99963
27 cis-1,2-Dichloroethene	+++++ / 94216	1138 / 175084	1910 / 274517	4314 / 381674	9100	36622	QUAD	-0.00757	2.78841	-0.00160	0.99982
28 Chloroform	+++++ / 156020	2093 / 287623	3088 / 445066	7659 / 617716	15346	62582	LINR	-0.01765	0.58087		0.99979
29 Bromochloromethane	+++++ / 0.18491	0.24426 / 0.17638	0.19855 / 0.17571	0.25107 / 0.17549	0.20591	0.18926	AVRG		0.20017		14.45256
31 1,1,1-Trichloroethane	+++++ / 0.49060	0.44373 / 0.47307	0.33260 / 0.49085	0.48618 / 0.49465	0.48811	0.47815	AVRG		0.46421		11.14156
32 1,1-Dichloropropene	+++++ / 0.30998	0.37016 / 0.29942	0.22159 / 0.31482	0.30083 / 0.31521	0.30455	0.30853	AVRG		0.30501		12.42473
33 1,2-Dichloroethane	+++++ / 124711	1931 / 229280	2677 / 348168	6181 / 485948	12903	51020	LINR	-0.02293	0.31700		0.99976

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
34 Carbon Tetrachloride	+++++	0.24382	0.18673	0.24702	0.25783	0.25612						
	0.26841	0.26688	0.28622	0.28776			AVRG		0.25564		11.75498	
37 Benzene	+++++	1.37973	1.01310	1.15868	0.99291	0.96387						
	0.97009	0.90438	0.94121	0.93732			AVRG		1.02903		14.60665	
38 Trichloroethene	+++++	0.28212	0.21891	0.28390	0.25402	0.24479						
	0.24362	0.23377	0.24293	0.24345			AVRG		0.24972		8.47979	
39 Bromodichloromethane	+++++	0.30899	0.26323	0.29970	0.26774	0.27305						
	0.30198	0.29078	0.30438	0.30770			AVRG		0.29084		6.21317	
40 Methyl Methacrylate	+++++	0.11368	0.12372	0.14305	0.11757	0.12787						
	0.13149	0.13600	0.13806	0.14614			AVRG		0.13084		8.51295	
41 2-Chloroethylvinyl ether	+++++	+++++	+++++	106	225	1519						
	4138	12610	35270	+++++			QUAD	0.18296	143	-856	0.99496	<-
42 1,2-Dichloropropane	+++++	0.34900	0.26252	0.31155	0.26373	0.25473						
	0.25977	0.24559	0.25357	0.25259			AVRG		0.27256		12.65048	

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
43 2-Nitropropane	+++++	+++++	0.07525	0.07663	0.05955	0.07004						
	0.08094	0.08288	0.08901	0.09814			AVRG		0.07905		14.84301	<-
44 Dibromomethane	+++++	0.20666	0.15215	0.17115	0.15721	0.15166						
	0.15308	0.14350	0.14794	0.14850			AVRG		0.15909		12.23409	
45 4-Methyl-2-Pentanone	+++++	0.31939	0.25209	0.29012	0.25825	0.25924						
	0.27548	0.26571	0.27757	0.28214			AVRG		0.27556		7.47541	
46 cis-1,3-Dichloropropene	+++++	0.35872	0.28341	0.32156	0.29000	0.31961						
	0.36018	0.35762	0.38033	0.38678			AVRG		0.33980		11.08057	
49 Ethyl Methacrylate	+++++	0.39874	0.26605	0.31895	0.27691	0.30360						
	0.30657	0.31115	0.32396	0.35194			AVRG		0.31754		12.43724	
50 Toluene	+++++	1.31272	1.01754	1.26075	1.12510	1.13895						
	1.16429	1.06580	1.08866	1.07214			AVRG		1.13844		8.38769	
51 trans-1,3-Dichloropropene	+++++	864	1381	3367	7790	38067						
	107819	213403	345365	495274			LINR	0.04423	0.32223		0.99860	

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
52 2-Hexanone	+++++	2202	3306	6913	14994	53773						
	120971	232489	364859	529191			LINR	-0.01752	0.18350		0.99909	
53 1,1,2-Trichloroethane	+++++	0.27729	0.22322	0.24692	0.22099	0.21025						
	0.21227	0.19516	0.19881	0.19630			AVRG		0.22013		12.23326	
54 1,3-Dichloropropane	+++++	0.55712	0.45435	0.51519	0.45473	0.44614						
	0.45732	0.41794	0.43274	0.42830			AVRG		0.46265		9.72403	
55 Dibromochloromethane	+++++	0.19911	0.19364	0.21625	0.19521	0.22748						
	0.25620	0.25023	0.26347	0.26547			AVRG		0.22967		13.02207	
56 Tetrachloroethene	+++++	0.20101	0.18589	0.23241	0.22529	0.22064						
	0.22236	0.20561	0.21222	0.21216			AVRG		0.21306		6.65572	<-
57 1,2-Dibromoethane	+++++	0.29027	0.21816	0.24763	0.23491	0.23547						
	0.25027	0.23310	0.23771	0.23943			AVRG		0.24299		8.21392	
58 1-Chlorohexane	+++++	3858	4107	5605	9239	28802						
	67624	128328	205637	297557			LINR	-0.01473	0.18971		0.99821	

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
59 Chlorobenzene	+++++	3328	4783	10976	24286	96445						
	241338	439831	691759	967685			LINR	-0.01567	0.68140		0.99953	
60 1,1,1,2-Tetrachloroethane	+++++	0.27476	0.22338	0.24912	0.22839	0.23823						
	0.25144	0.23828	0.24785	0.24975			AVRG		0.24458		6.14616	
61 Ethylbenzene	+++++	0.37859	0.28634	0.36893	0.34142	0.35953						
	0.37144	0.34429	0.36106	0.35927			AVRG		0.35232		7.80205	
62 m,p-Xylenes	+++++	0.41088	0.31877	0.40660	0.39472	0.44889						
	0.47000	0.43532	0.45104	0.44951			AVRG		0.42064		10.81270	
63 o-Xylene	+++++	0.40834	0.33523	0.38165	0.38678	0.44251						
	0.46639	0.42598	0.44320	0.44056			AVRG		0.41451		9.82952	
64 Styrene	+++++	0.68437	0.51257	0.67557	0.61758	0.70924						
	0.76892	0.73388	0.76849	0.76657			AVRG		0.69302		12.22610	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
66 Bromoform	+++++	363	774	1781	3703	17069					
	51889	106443	177855	259431			QUAD	0.01896	6.52077	-1.52733	0.99958
67 Isopropylbenzene	+++++	0.91545	0.74544	0.99876	1.01865	1.10296					
	1.14820	1.08499	1.12809	1.11313			AVRG		1.02841		12.58596
68 1,1,2,2-Tetrachloroethane	+++++	1485	2063	4977	11238	46115					
	117242	217556	337416	472868			LINR	-0.00655	0.61269		0.99955
71 1,2,3-Trichloropropane	+++++	1417	2095	4881	10668	43891					
	113449	220140	349375	495644			LINR	0.01645	0.64030		0.99906
72 trans-1,4-Dichloro-2-butene	+++++	0.09591	0.06312	0.06348	0.06112	0.06699					
	0.07125	0.06836	0.06845	0.07014			AVRG		0.06987		14.80397
73 n-Propylbenzene	+++++	1.92580	1.59095	2.13173	2.04549	2.29639					
	2.45392	2.24547	2.34079	2.42855			AVRG		2.16212		12.76776
74 Bromobenzene	+++++	0.70656	0.53735	0.67143	0.56594	0.55821					
	0.58377	0.54202	0.55481	0.56690			AVRG		0.58744		10.18394

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
75 1,3,5-Trimethylbenzene	+++++	2304	3570	8809	19300	101450					
	297172	586805	932820	1306821			LINR	0.03383	1.70542		0.99931
76 2-Chlorotoluene	+++++	1.73254	1.30730	1.49668	1.45851	1.45015					
	1.50067	1.37840	1.40865	1.43584			AVRG		1.46319		8.03160
77 4-Chlorotoluene	+++++	1.82917	1.48886	1.68480	1.57172	1.68053					
	1.73951	1.61343	1.65492	1.68242			AVRG		1.66060		5.86001
78 tert-Butylbenzene	+++++	1.11769	1.00103	1.26564	1.31703	1.41204					
	1.48123	1.38863	1.42639	1.45022			AVRG		1.31776		12.38367
79 1,2,4-Trimethylbenzene	+++++	1.53067	1.86818	1.80967	1.34921	1.31864					
	1.56517	1.52938	1.65540	1.69338			AVRG		1.59108		11.75878
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1.54052	1.33266	1.63699	1.69018	1.85118					
	1.96225	1.87627	1.93902	1.96569			AVRG		1.75497		12.54327

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82 p-Isopropyltoluene	+++++	2165	3438	8854	22757	106929						
	303882	597283	955586	1343308			LINR	0.03295	1.74866		0.99916	
83 1,3-Dichlorobenzene	+++++	1.42419	1.02181	1.20180	1.04916	1.00155						
	1.05921	0.97316	0.99442	1.00293			AVRG		1.08091		13.44245	
84 1,4-Dichlorobenzene	+++++	2680	3940	8802	19458	78002						
	197609	365510	567963	786101			LINR	-0.01262	1.02210		0.99966	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	+++++	+++++	26630	34406	69765						
	146462	265629	428103	611338			LINR	-0.10862	0.41252		0.99732	
87 n-Butylbenzene	+++++	1966	2847	7724	22522	99934						
	267172	534334	845811	1186519			LINR	0.02722	1.54483		0.99943	
88 1,2-Dichlorobenzene	+++++	1.46789	1.05757	1.17195	1.04368	1.00886						
	1.03596	0.95334	0.96982	0.97685			AVRG		1.07621		14.92602	

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89 1,2-Dibromo-3-Chloropropane	+++++	119	163	571	1208	5187						
	14223	29112	48564	71040			QUAD	0.00486	13.46560	-7.40061	0.99985	<-
90 1,2,4-Trichlorobenzene	+++++	0.76256	0.58961	0.61411	0.58360	0.61431						
	0.66411	0.65608	0.68125	0.69437			AVRG		0.65111		8.83242	
91 Hexachlorobutadiene	+++++	0.28496	0.27784	0.29622	0.28781	0.28252						
	0.29019	0.28308	0.29507	0.30067			AVRG		0.28871		2.58347	
92 Naphthalene	+++++	2273	3393	8058	17811	87164						
	267603	549668	862491	1208773			LINR	0.03919	1.58099		0.99931	
93 1,2,3-Trichlorobenzene	+++++	0.62655	0.54804	0.62139	0.55574	0.56859						
	0.61333	0.59506	0.61193	0.62503			AVRG		0.59618		5.18590	
130 Ethyl Acetate	+++++	659	903	1723	3383	14253						
	32325	57395	84064	122455			LINR	-0.04263	0.11301		0.99854	
131 Methyl Acrylate	+++++	0.52487	0.44916	0.42748	0.38022	0.36989						
	0.39025	0.38709	0.38950	0.41089			AVRG		0.41437		11.66532	

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
132 n-Butanol	+++++	741	943	2050	4104	17102					
	46172	94987	152062	228205			QUAD	-0.03089	114	-24.70264	0.99995
133 Ethyl Acrylate	+++++	0.90774	0.68564	0.67145	0.70362	0.75109					
	0.81224	0.81376	0.83781	0.89525			AVRG		0.78651		11.20153
134 Cyclohexanone	+++++	1334	2164	3987	8867	37033					
	95172	194238	292482	422606			QUAD	-0.16976	39.96356	-1.61695	0.99975
135 1,4-Dioxane	515	604	731	1106	2383	8369					
	20352	38441	57382	87547			QUAD	-0.80372	284	-112	0.99895
136 n-Hexane	+++++	0.29666	0.21562	0.32791	0.37254	0.33859					
	0.34406	0.31350	0.33677	0.33975			AVRG		0.32060		13.90436
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++	592	725	2577	7208	28842					
	69509	132225	202073	282375			LINR	-0.01056	0.26560		0.99990

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
146 Methyl Acetate	+++++	+++++	1432	3673	7064	28405						
	69683	129001	195904	255797			LINR	-0.05181	0.24589		0.99745	
147 Methylcyclohexane	+++++	0.58596	0.42497	0.44588	0.47554	0.51979						
	0.55999	0.56048	0.58366	0.62207			AVRG		0.53093		12.89288	
149 Isopropyl alcohol	+++++	+++++	2486	5605	10801	48459						
	113863	219355	317765	469393			LINR	-0.30667	0.02168		0.99877	
152 Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
150 Allyl alcohol	+++++	0.01483	0.01078	0.01640	0.01863	0.01693						
	0.01720	0.01567	0.01684	0.01699			AVRG		0.01603		13.90436	
151 4-Methyl-2-pentanol	+++++	0.08682	0.06209	0.06456	0.05740	0.06584						
	0.06694	0.06831	0.07196	0.07667			AVRG		0.06896		12.58033	
148 Tert-butyl alcohol	+++++	2276	3648	7130	14781	60372						
	146048	280071	431407	602022			LINR	-0.25166	0.02826		0.99997	

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
139 Diethyl ether	+++++	928	1489	2804	5732	25476					
	64595	123190	175770	254790			LINR	-0.01980	0.23770		0.99893
140 1,3-Butadiene	+++++	0.39893	0.32375	0.47544	0.47320	0.44227					
	0.43968	0.43203	0.43772	0.44107			AVRG		0.42934		10.61380
141 Cyclohexane	+++++	+++++	5426	8326	15051	50211					
	121140	228460	361451	508774			LINR	-0.01930	0.47297		0.99960
142 Tetrahydrofuran	+++++	+++++	0.06112	0.05750	0.05222	0.05707					
	0.06391	0.06181	0.06088	+++++			AVRG		0.05922		6.59831
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	862	1345	3650	8044	36586					
	103865	219549	361012	520152			QUAD	0.01490	1.77376	-0.11604	0.99982

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153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	1.56361	1.36433	1.30037	1.08410	1.10593						
	1.13758	1.08922	1.08687	1.12187			AVRG		1.20599		13.94677	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	+++++	+++++	+++++	0.02602	0.02063						
	0.02154	0.02347	0.02196	0.02344			AVRG		0.02284		8.34972	<-

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	0.49508	0.41797	0.44253	0.38346	0.44281						
	0.45579	0.46277	0.50002	0.54184			AVRG		0.46025		10.24302	
163 Butyl methacrylate	+++++	1137	2158	3224	7663	41093						
	101877	177629	269158	390507			LINR	-0.01217	0.50073		0.99800	
164 Dicyclopentadiene	+++++	2.69821	2.10109	1.88718	2.08758	2.08457						
	2.14083	2.07475	2.11666	2.29267			AVRG		2.16484		10.39866	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	1.65561	1.46410	1.40878	1.18790	1.20526						
	1.40689	1.44792	1.49835	1.59565			AVRG		1.43005		10.90611	

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167 Ethanol	+++++ / 22141	318 / 42645	748 / 62069	951 / +++++	1968	9302	LINR	-0.47077	0.00413		0.99891	
168 1-Propanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
170 1,3,5-Trichlorobenzene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
172 tert-Butyl formate	+++++ / 124383	1751 / 292643	2782 / +++++	6189 / +++++	11690	47930	QUAD	-0.02264	4.57018	-0.98482	0.99997	
173 3,3-Dimethyl-1-butanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
174 tert-Amyl methyl ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
175 tert-Butyl ethyl ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
End Cal Date : 20-JUN-2024 14:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
176 tert-Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	+++++	0.29972	0.38374	0.36716	0.36054						
	0.38450	0.43149	+++++	+++++			AVRG		0.37119		11.56120	<-
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	129	188	356	777	4024						
	12486	28979	52054	+++++			QUAD	0.09572	121	-266	0.99940	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	0.08241	0.05480	0.07486	0.07798	0.07556						
	0.07533	0.07257	0.07136	0.06850			AVRG		0.07260		10.68768	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	0.43905	0.43948	0.46254	0.42619	0.44660						
	0.44347	0.41993	0.44927	0.45447			AVRG		0.44233		2.99556	
188 Isopropyl acetate	+++++	0.80434	0.60916	0.69340	0.61633	0.63034						
	0.66114	0.65011	0.65337	0.69917			AVRG		0.66860		8.90106	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
End Cal Date : 20-JUN-2024 14:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
189 n-Butyl acetate	+++++	0.40550	0.33270	0.41884	0.38090	0.40116						
	0.41112	0.40136	0.41110	0.42517			AVRG		0.39865		6.95332	
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++	+++++	+++++	0.07989	0.09885	0.08465						
	0.08399	0.07810	0.07761	0.08198			AVRG		0.08358		8.68587	<-
195 Methyl Amyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++	387	761	1413	3175	17763						
	62950	167585	+++++	+++++			QUAD	0.02533	6.02385	-4.21586	0.99827	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
202 Isobutylene	+++++	+++++	329	1008	3625	16468						
	41377	81097	128344	182427			LINR	0.02623	0.17120		0.99961	<-
203 2-Ethylhexyl Acrylate	+++++	1065	1803	3095	5299	29847						
	98009	219028	363161	+++++			QUAD	0.02491	1.90238	-0.19922	0.99914	
204 Tetrahydrothiophene	+++++	0.32826	0.27891	0.29024	0.25006	0.27763						
	0.28802	0.27517	0.27812	0.29085			AVRG		0.28414		7.24640	
205 sec-Butyl Ether	+++++	0.68311	0.58265	0.60919	0.49421	0.52017						
	0.52541	0.51504	0.53878	0.55939			AVRG		0.55866		10.52442	
206 2-Chloropropene	+++++	0.62206	0.39077	0.46011	0.50276	0.52450						
	0.52377	0.52824	0.53132	0.53608			AVRG		0.51329		12.14400	
M 94 1,2-Dichloroethylene (total)	+++++	2240	3466	8089	17111	68918						
	173558	322965	504973	703478			QUAD	-0.01968	3.03055	-0.00150	0.99984	
M 95 Xylenes (total)	+++++	0.37025	0.28929	0.35795	0.35510	0.40106						
	0.42191	0.39638	0.41369	0.41330			AVRG		0.37988		11.06752	

Report Date : 29-Jun-2024 12:53 Page 25

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
End Cal Date : 20-JUN-2024 14:36
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit : 29-Jun-2024 12:29 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
$ 30 Dibromofluoromethane	+++++	+++++	0.28286	0.41382	0.33278	0.33129					
	0.33132	0.32267	0.31979	0.32246			AVRG		0.33212		11.05592
$ 35 1,2-Dichloroethane-d4	+++++	+++++	0.40194	0.53289	0.43931	0.42174					
	0.41412	0.39711	0.39302	0.38875			AVRG		0.42361		11.14606
$ 48 Toluene-d8	+++++	+++++	+++++	1.16353	0.94334	0.95320					
	0.96473	0.92007	0.92943	0.91914			AVRG		0.97049		8.94340
$ 69 4-Bromofluorobenzene	+++++	+++++	0.46020	0.45626	0.36856	0.36092					
	0.36010	0.34894	0.34921	0.34633			AVRG		0.38132		12.60554

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 20-JUN-2024 11:23
End Cal Date   : 20-JUN-2024 14:36
Quant Method   : ISTD
Target Version : 4.14
Integrator   : HP RTE
Method file   : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\8260C.m
Last Edit   : 29-Jun-2024 12:29 VOA9.i

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060781

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/10/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62014.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U62014.D	**Inj Date**	20-JUN-2024 1540

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	47.2	94.5	80-120	
1,1,1-Trichloroethane	50.0	49.0	98.1	80-120	
1,1,2,2-Tetrachloroethane	50.0	48.3	96.6	80-120	
Freon TF	50.0	45.2	90.4	80-120	
Methyl acetate	50.0	46.0	92.0	80-120	
Cyclohexane	50.0	46.3	92.6	80-120	
Methylcyclohexane	50.0	49.6	99.2	80-120	
Carbon Disulfide	100	92.1	92.1	80-120	
2-Hexanone	100	92.0	92.0	80-120	
1,1,2-Trichloroethane	50.0	45.3	90.6	80-120	
1,1-Dichloroethane	50.0	42.0	84.1	80-120	
1,1-Dichloroethene	50.0	43.6	87.2	80-120	
1,1-Dichloropropene	50.0	48.2	96.5	80-120	
1,2,3-Trichlorobenzene	50.0	47.8	95.6	80-120	
1,2,3-Trichloropropane	50.0	47.1	94.3	80-120	
1,2,4-Trichlorobenzene	50.0	47.8	95.6	80-120	
1,2,4-Trimethylbenzene	50.0	47.2	94.4	80-120	
1,2-Dibromo-3-Chloropropane	50.0	50.2	100	80-120	
1,2-Dibromoethane	50.0	47.3	94.6	80-120	
Acrolein	100	101	101	80-120	
Acrylonitrile	100	88.6	88.6	80-120	
1,2-Dichlorobenzene	50.0	44.4	88.8	80-120	
1,2-Dichloroethane	50.0	48.6	97.3	80-120	
1,2-Dichloropropane	50.0	44.9	89.8	80-120	
1,3,5-Trimethylbenzene	50.0	47.6	95.2	80-120	
1,3-Dichlorobenzene	50.0	44.7	89.4	80-120	
1,3-Dichloropropane	50.0	45.8	91.6	80-120	
1,4-Dichlorobenzene	50.0	48.6	97.2	80-120	
1-Chlorohexane	50.0	44.1	88.3	80-120	
2,2-Dichloropropane	50.0	44.4	88.8	80-120	
2-Butanone	100	94.9	94.9	80-120	
2-Chloroethylvinyl ether	100	118	118	80-120	
2-Chlorotoluene	50.0	46.4	92.7	80-120	
4-Chlorotoluene	50.0	48.3	96.5	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62014.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U62014.D	**Inj Date**	20-JUN-2024 1540

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	46.8	93.7	80-120	
4-Methyl-2-Pentanone	100	92.1	92.1	80-120	
Acetone	100	95.5	95.5	80-120	
Acetonitrile	500	446	89.2	80-120	
Allyl Chloride	50.0	44.4	88.9	80-120	
Benzene	50.0	44.5	89.0	80-120	
Bromobenzene	50.0	46.1	92.2	80-120	
Bromochloromethane	50.0	43.3	86.6	80-120	
Bromodichloromethane	50.0	48.0	96.0	80-120	
Bromoform	50.0	47.8	95.6	80-120	
Bromomethane	50.0	55.8	112	80-120	
Carbon Tetrachloride	50.0	49.3	98.6	80-120	
Chlorobenzene	50.0	48.7	97.4	80-120	
Chloroethane	50.0	46.7	93.3	80-120	
Chloroform	50.0	48.3	96.7	80-120	
Chloromethane	50.0	43.3	86.5	80-120	
Chloroprene	50.0	45.3	90.6	80-120	
cis-1,2-Dichloroethene	50.0	48.6	97.3	80-120	
cis-1,3-Dichloropropene	50.0	49.8	99.7	80-120	
Dibromochloromethane	50.0	52.7	105	80-120	
Dibromomethane	50.0	45.3	90.6	80-120	
Dichlorodifluoromethane	50.0	47.8	95.6	80-120	
Ethylbenzene	50.0	48.8	97.6	80-120	
Ethyl Methacrylate	50.0	46.8	93.7	80-120	
Iodomethane	100	119	119	80-120	
Isobutyl Alcohol	1000	922	92.2	70-130	
Propionitrile	500	480	96.1	70-130	
Hexachlorobutadiene	50.0	46.0	92.1	80-120	
Isopropylbenzene	50.0	51.2	102	80-120	
m,p-Xylenes	100	102	102	80-120	
Methyl tert-butyl ether	50.0	45.7	91.4	80-120	
Methylene Chloride	50.0	45.4	90.8	80-120	
Methacrylonitrile	50.0	48.0	96.1	80-120	
Methyl Methacrylate	50.0	44.4	88.8	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62014.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U62014.D	**Inj Date**	20-JUN-2024 1540

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	45.8	91.6	80-120	
n-Propylbenzene	50.0	52.0	104	80-120	
Naphthalene	50.0	45.7	91.3	80-120	
o-Xylene	50.0	50.7	101	80-120	
sec-Butylbenzene	50.0	51.3	103	80-120	
Styrene	50.0	51.9	104	80-120	
tert-Butylbenzene	50.0	52.1	104	80-120	
Tetrachloroethene	50.0	47.0	94.0	80-120	
Toluene	50.0	46.6	93.2	80-120	
trans-1,2-Dichloroethene	50.0	46.8	93.7	80-120	
trans-1,3-Dichloropropene	50.0	45.9	91.8	80-120	
trans-1,4-Dichloro-2-butene	50.0	45.7	91.4	80-120	
Trichloroethene	50.0	46.4	92.9	80-120	
Trichlorofluoromethane	50.0	46.5	93.1	80-120	
Vinyl Acetate	100	96.0	96.0	80-120	
Vinyl Chloride	50.0	46.0	92.1	80-120	
Methyl Acrylate	50.0	44.3	88.7	80-120	
Ethyl Acrylate	50.0	48.0	96.0	80-120	
Butyl acrylate	50.0	47.3	94.6	80-120	
2-Ethylhexyl Acrylate	50.0	47.0	93.9	80-120	
Allyl alcohol	1000	893	89.3	80-120	
1,2-Dichloroethylene (total)	100	95.6	95.6	80-120	
Xylenes (total)	150	153	102	80-120	
1,4-Dioxane	1000	936	93.6	80-120	
Dibromofluoromethane	50.0	47.4	94.8	71-125	
1,2-Dichloroethane-d4	50.0	45.3	90.7	70-125	
Toluene-d8	50.0	47.3	94.7	75-125	
4-Bromofluorobenzene	50.0	45.2	90.4	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060781

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/10/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62402.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-JUN-2024 1105
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.357	0.309	0.309	0.100	13.4	20.0	Averaged	
Chloromethane	50.0	41.8	0.661	0.100	16.3	20.0	Quadratic	
Propionitrile	500	467	0.043	0.010	6.54	20.0	Quadratic	
Vinyl Chloride	50.0	43.1	0.382	0.100	13.8	20.0	Linear	
Bromomethane	50.0	50.4	0.167	0.100	-0.701	20.0	Quadratic	
Chloroethane	50.0	42.1	0.236	0.100	15.8	20.0	Quadratic	
Trichlorofluoromethane	0.479	0.464	0.464	0.100	3.21	20.0	Averaged	
Acrolein	100	80.7	0.013	0.010	19.3	20.0	Quadratic	
Acetone	100	86.2	0.112	0.100	13.8	20.0	Linear	
1,1-Dichloroethene	0.292	0.255	0.255	0.100	12.7	20.0	Averaged	
Isobutyl Alcohol	0.049	0.042	0.042	0.005	15.6	20.0	Averaged	
Acetonitrile	500	458	0.035	0.005	8.44	20.0	Linear	
Allyl Chloride	50.0	44.9	0.810	0.100	10.2	20.0	Quadratic	
Iodomethane	100	99.0	0.114	0.100	0.570	20.0	Quadratic	
Acrylonitrile	100	89.1	0.109	0.050	10.9	20.0	Linear	
Methylene Chloride	50.0	44.9	0.316	0.100	10.2	20.0	Quadratic	
Methyl tert-butyl ether	50.0	45.6	0.783	0.100	8.82	20.0	Linear	
Carbon Disulfide	0.804	0.728	0.728	0.100	9.46	20.0	Averaged	
trans-1,2-Dichloroethene	50.0	46.7	0.285	0.100	6.64	20.0	Quadratic	
Vinyl Acetate	100	87.6	0.153	0.010	12.4	20.0	Linear	
1,1-Dichloroethane	50.0	45.6	0.529	0.200	8.75	20.0	Linear	
Chloroprene	50.0	43.3	0.430	0.100	13.4	20.0	Linear	
2-Butanone	100	86.8	0.150	0.100	13.2	20.0	Linear	
Methacrylonitrile	50.0	43.3	0.189	0.100	13.4	20.0	Quadratic	
2,2-Dichloropropane	50.0	46.8	0.431	0.100	6.37	20.0	Linear	
cis-1,2-Dichloroethene	50.0	45.3	0.328	0.100	9.32	20.0	Quadratic	
Chloroform	50.0	46.6	0.552	0.200	6.74	20.0	Linear	
Bromochloromethane	0.200	0.171	0.171	0.100	14.7	20.0	Averaged	
30 Dibromofluoromethane	0.332	0.373	0.373	0.100	-12.234	20.0	Averaged	
1,1,1-Trichloroethane	0.464	0.448	0.448	0.100	3.57	20.0	Averaged	
1,1-Dichloropropene	0.305	0.283	0.283	0.100	7.34	20.0	Averaged	
1,2-Dichloroethane	50.0	47.5	0.308	0.100	5.07	20.0	Linear	
Carbon Tetrachloride	0.256	0.253	0.253	0.100	0.962	20.0	Averaged	
35 1,2-Dichloroethane-d4	0.424	0.444	0.444	0.100	-4.708	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62402.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-JUN-2024 1105
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.03	0.883	0.883	0.500	14.2	20.0	Averaged	
Trichloroethene	0.250	0.225	0.225	0.200	10.1	20.0	Averaged	
Bromodichloromethane	0.291	0.275	0.275	0.200	5.28	20.0	Averaged	
Methyl Methacrylate	0.131	0.130	0.130	0.100	0.718	20.0	Averaged	
2-Chloroethylvinyl ether	100	85.9	0.006	0.001	14.1	20.0	Quadratic	
1,2-Dichloropropane	0.273	0.239	0.239	0.100	12.1	20.0	Averaged	
2-Nitropropane	0.079	0.077	0.077	0.000	2.49	20.0	Averaged	
Dibromomethane	0.159	0.136	0.136	0.100	14.5	20.0	Averaged	
4-Methyl-2-Pentanone	0.276	0.229	0.229	0.100	16.7	20.0	Averaged	
cis-1,3-Dichloropropene	0.340	0.323	0.323	0.200	4.88	20.0	Averaged	
48 Toluene-d8	0.970	1.12	1.12	0.100	-15.369	20.0	Averaged	
Ethyl Methacrylate	0.318	0.272	0.272	0.100	14.3	20.0	Averaged	
Toluene	1.14	1.02	1.02	0.400	10.2	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	43.1	0.264	0.100	13.8	20.0	Linear	
2-Hexanone	100	87.4	0.162	0.100	12.6	20.0	Linear	
1,1,2-Trichloroethane	0.220	0.186	0.186	0.100	15.3	20.0	Averaged	
1,3-Dichloropropane	0.463	0.392	0.392	0.100	15.2	20.0	Averaged	
Dibromochloromethane	0.230	0.231	0.231	0.100	-0.424	20.0	Averaged	
Tetrachloroethene	0.213	0.204	0.204	0.200	4.29	20.0	Averaged	
1,2-Dibromoethane	0.243	0.217	0.217	0.100	10.8	20.0	Averaged	
1-Chlorohexane	50.0	41.9	0.162	0.100	16.1	20.0	Linear	
Chlorobenzene	50.0	46.8	0.649	0.500	6.36	20.0	Linear	
1,1,1,2-Tetrachloroethane	0.245	0.227	0.227	0.100	7.20	20.0	Averaged	
Ethylbenzene	0.352	0.326	0.326	0.100	7.45	20.0	Averaged	
m,p-Xylenes	0.421	0.410	0.410	0.100	2.49	20.0	Averaged	
o-Xylene	0.415	0.404	0.404	0.300	2.52	20.0	Averaged	
Styrene	0.693	0.664	0.664	0.300	4.23	20.0	Averaged	
Bromoform	50.0	45.5	0.141	0.100	8.98	20.0	Quadratic	
Isopropylbenzene	1.03	1.01	1.01	0.100	2.10	20.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	43.8	0.541	0.300	12.4	20.0	Linear	
69 4-Bromofluorobenzene	0.381	0.414	0.414	0.100	-8.577	20.0	Averaged	
1,2,3-Trichloropropane	50.0	41.4	0.520	0.100	17.1	20.0	Linear	
trans-1,4-Dichloro-2-butene	0.070	0.057	0.057	0.050	19.1	20.0	Averaged	
n-Propylbenzene	2.16	2.01	2.01	0.100	6.88	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62402.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-JUN-2024 1105
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.587	0.511	0.511	0.100	13.0	20.0	Averaged	
1,3,5-Trimethylbenzene	50.0	42.8	1.40	0.100	14.4	20.0	Linear	
2-Chlorotoluene	1.46	1.30	1.30	0.100	10.9	20.0	Averaged	
4-Chlorotoluene	1.66	1.48	1.48	0.100	10.6	20.0	Averaged	
tert-Butylbenzene	1.32	1.27	1.27	0.100	3.43	20.0	Averaged	
1,2,4-Trimethylbenzene	1.59	1.34	1.34	0.100	16.1	20.0	Averaged	
sec-Butylbenzene	1.75	1.69	1.69	0.100	3.86	20.0	Averaged	
p-Isopropyltoluene	50.0	42.7	1.43	0.100	14.7	20.0	Linear	
1,3-Dichlorobenzene	1.08	0.929	0.929	0.600	14.1	20.0	Averaged	
1,4-Dichlorobenzene	50.0	46.5	0.963	0.400	7.02	20.0	Linear	
Benzyl Chloride	50.0	35.0	0.334	0.010	30.0	20.0	Linear	*
n-Butylbenzene	50.0	42.1	1.26	0.500	15.8	20.0	Linear	
1,2-Dichlorobenzene	1.08	0.903	0.903	0.400	16.1	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	43.2	0.066	0.050	13.5	20.0	Quadratic	
1,2,4-Trichlorobenzene	0.651	0.585	0.585	0.200	10.2	20.0	Averaged	
Hexachlorobutadiene	0.289	0.276	0.276	0.100	4.54	20.0	Averaged	
Naphthalene	50.0	40.5	1.22	0.200	19.0	20.0	Linear	
1,2,3-Trichlorobenzene	0.596	0.528	0.528	0.100	11.4	20.0	Averaged	
Methyl Acetate	50.0	47.8	0.248	0.100	4.35	20.0	Linear	
Freon TF	50.0	47.6	0.255	0.100	4.89	20.0	Linear	
Cyclohexane	50.0	43.1	0.416	0.100	13.9	20.0	Linear	
Tetrahydrofuran	0.059	0.057	0.057	0.001	4.13	20.0	Averaged	
Methylcyclohexane	0.531	0.512	0.512	0.100	3.56	20.0	Averaged	
1,4-Dioxane	1000	1008	0.004	0.001	-0.755	20.0	Quadratic	
n-Butanol	1000	967	0.009	0.005	3.34	20.0	Quadratic	
n-Hexane	0.321	0.304	0.304	0.100	5.33	20.0	Averaged	
Diethyl ether	50.0	45.7	0.222	0.100	8.68	20.0	Linear	
Tert-butyl alcohol	1000	894	0.026	0.005	10.6	20.0	Linear	
Isopropyl alcohol	1000	952	0.021	0.005	4.81	20.0	Linear	
Diisopropyl ether	1.21	0.990	0.990	0.100	17.9	20.0	Averaged	
Butyl acrylate	0.460	0.392	0.392	0.100	14.9	20.0	Averaged	
Dicyclopentadiene	2.16	1.88	1.88	0.100	13.0	20.0	Averaged	
1,2,3-Trimethylbenzene	1.43	1.23	1.23	0.100	13.8	20.0	Averaged	
Ethanol	1000	986	0.004	0.001	1.42	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62402.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62402.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-JUN-2024 1105
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	92.4	0.227	0.100	7.59	20.0	Quadratic	
4-Methyl-2-pentanol	0.069	0.060	0.060	0.005	13.2	20.0	Averaged	
1,3-Butadiene	0.429	0.376	0.376	0.100	12.3	20.0	Averaged	
Epichlorohydrin	200	185	0.008	0.001	7.28	20.0	Quadratic	
94 1,2-Dichloroethylene (total	100	++++	0.307	0.200	++++	20.0	Quadratic	*
95 Xylenes (total)	0.380	0.373	0.373	0.100	1.85	20.0	Averaged	
alpha-Methylstyrene	50.0	42.0	0.481	0.100	16.0	20.0	Quadratic	
Ethyl Acetate	50.0	50.1	0.118	0.100	-0.288	20.0	Linear	
Methyl Acrylate	0.414	0.349	0.349	0.100	15.7	20.0	Averaged	
n-Butyl acetate	0.399	0.331	0.331	0.100	16.9	20.0	Averaged	
Cyclohexanone	1000	883	0.023	0.005	11.7	20.0	Quadratic	
Isoprene	0.073	0.065	0.065	0.010	9.81	20.0	Averaged	
Isopropyl acetate	0.669	0.589	0.589	0.100	12.0	20.0	Averaged	
Allyl alcohol	0.016	0.015	0.015	0.004	5.33	20.0	Averaged	
Acetaldehyde	0.084	0.074	0.074	0.001	11.9	20.0	Averaged	
Dimethyl Disulfide	50.0	47.6	0.175	0.020	4.89	20.0	Quadratic	
Isobutylene	50.0	42.9	0.142	0.010	14.1	20.0	Linear	
Ethyl Acrylate	0.787	0.725	0.725	0.100	7.81	20.0	Averaged	
Butyl methacrylate	50.0	47.0	0.477	0.100	5.95	20.0	Linear	
Propylene oxide	0.023	0.020	0.020	0.005	13.5	20.0	Averaged	
Ethylene oxide	0.371	0.311	0.311	0.010	16.2	20.0	Averaged	
2-Ethylhexyl Acrylate	50.0	45.2	0.487	0.100	9.56	20.0	Quadratic	
Tetrahydrothiophene	0.284	0.253	0.253	0.100	11.0	20.0	Averaged	
sec-Butyl Ether	0.559	0.474	0.474	0.100	15.1	20.0	Averaged	
n-Amyl acetate	0.442	0.354	0.354	0.100	19.9	20.0	Averaged	
2-Chloropropene	0.513	0.464	0.464	0.100	9.55	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62428.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62428.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-JUN-2024 2133
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.357	0.272	0.272	0.100	23.7	50.0	Averaged	
Chloromethane	50.0	35.3	0.565	0.100	29.3	50.0	Quadratic	
Propionitrile	500	458	0.042	0.010	8.37	50.0	Quadratic	
Vinyl Chloride	50.0	40.1	0.356	0.100	19.7	50.0	Linear	
Bromomethane	50.0	57.5	0.190	0.100	-15.074	50.0	Quadratic	
Chloroethane	50.0	43.5	0.244	0.100	13.0	50.0	Quadratic	
Trichlorofluoromethane	0.479	0.441	0.441	0.100	7.84	50.0	Averaged	
Acrolein	100	85.9	0.013	0.010	14.1	50.0	Quadratic	
Acetone	100	81.5	0.106	0.100	18.5	50.0	Linear	
1,1-Dichloroethene	0.292	0.248	0.248	0.100	14.8	50.0	Averaged	
Isobutyl Alcohol	0.049	0.043	0.043	0.005	12.6	50.0	Averaged	
Acetonitrile	500	417	0.032	0.005	16.6	50.0	Linear	
Allyl Chloride	50.0	42.0	0.759	0.100	16.1	50.0	Quadratic	
Iodomethane	100	115	0.133	0.100	-14.865	50.0	Quadratic	
Acrylonitrile	100	86.4	0.105	0.050	13.6	50.0	Linear	
Methylene Chloride	50.0	45.2	0.319	0.100	9.56	50.0	Quadratic	
Methyl tert-butyl ether	50.0	42.5	0.730	0.100	15.0	50.0	Linear	
Carbon Disulfide	0.804	0.692	0.692	0.100	13.9	50.0	Averaged	
trans-1,2-Dichloroethene	50.0	45.7	0.279	0.100	8.57	50.0	Quadratic	
Vinyl Acetate	100	93.6	0.163	0.010	6.41	50.0	Linear	
1,1-Dichloroethane	50.0	44.5	0.516	0.200	10.9	50.0	Linear	
Chloroprene	50.0	42.0	0.417	0.100	16.0	50.0	Linear	
2-Butanone	100	89.5	0.155	0.100	10.5	50.0	Linear	
Methacrylonitrile	50.0	42.9	0.187	0.100	14.1	50.0	Quadratic	
2,2-Dichloropropane	50.0	41.7	0.383	0.100	16.7	50.0	Linear	
cis-1,2-Dichloroethene	50.0	45.8	0.331	0.100	8.34	50.0	Quadratic	
Chloroform	50.0	47.1	0.557	0.200	5.82	50.0	Linear	
Bromochloromethane	0.200	0.175	0.175	0.100	12.6	50.0	Averaged	
30 Dibromofluoromethane	0.332	0.372	0.372	0.100	-11.993	50.0	Averaged	
1,1,1-Trichloroethane	0.464	0.442	0.442	0.100	4.72	50.0	Averaged	
1,1-Dichloropropene	0.305	0.275	0.275	0.100	9.73	50.0	Averaged	
1,2-Dichloroethane	50.0	48.4	0.314	0.100	3.22	50.0	Linear	
Carbon Tetrachloride	0.256	0.252	0.252	0.100	1.50	50.0	Averaged	
35 1,2-Dichloroethane-d4	0.424	0.437	0.437	0.100	-3.128	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62428.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62428.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-JUN-2024 2133
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.03	0.882	0.882	0.500	14.3	50.0	Averaged	
Trichloroethene	0.250	0.231	0.231	0.200	7.62	50.0	Averaged	
Bromodichloromethane	0.291	0.276	0.276	0.200	5.01	50.0	Averaged	
Methyl Methacrylate	0.131	0.120	0.120	0.100	8.30	50.0	Averaged	
2-Chloroethylvinyl ether	100	101	0.007	0.001	-1.024	50.0	Quadratic	
1,2-Dichloropropane	0.273	0.240	0.240	0.100	12.1	50.0	Averaged	
2-Nitropropane	0.079	0.072	0.072	0.000	8.99	50.0	Averaged	
Dibromomethane	0.159	0.143	0.143	0.100	9.82	50.0	Averaged	
4-Methyl-2-Pentanone	0.276	0.248	0.248	0.100	9.99	50.0	Averaged	
cis-1,3-Dichloropropene	0.340	0.321	0.321	0.200	5.49	50.0	Averaged	
48 Toluene-d8	0.970	1.11	1.11	0.100	-14.136	50.0	Averaged	
Ethyl Methacrylate	0.318	0.265	0.265	0.100	16.5	50.0	Averaged	
Toluene	1.14	1.04	1.04	0.400	8.26	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	43.3	0.265	0.100	13.4	50.0	Linear	
2-Hexanone	100	87.6	0.162	0.100	12.4	50.0	Linear	
1,1,2-Trichloroethane	0.220	0.198	0.198	0.100	10.1	50.0	Averaged	
1,3-Dichloropropane	0.463	0.416	0.416	0.100	10.2	50.0	Averaged	
Dibromochloromethane	0.230	0.240	0.240	0.100	-4.430	50.0	Averaged	
Tetrachloroethene	0.213	0.205	0.205	0.200	3.94	50.0	Averaged	
1,2-Dibromoethane	0.243	0.230	0.230	0.100	5.44	50.0	Averaged	
1-Chlorohexane	50.0	42.5	0.164	0.100	14.9	50.0	Linear	
Chlorobenzene	50.0	48.5	0.671	0.500	3.05	50.0	Linear	
1,1,1,2-Tetrachloroethane	0.245	0.234	0.234	0.100	4.28	50.0	Averaged	
Ethylbenzene	0.352	0.332	0.332	0.100	5.90	50.0	Averaged	
m,p-Xylenes	0.421	0.421	0.421	0.100	-0.173	50.0	Averaged	
o-Xylene	0.415	0.418	0.418	0.300	-0.896	50.0	Averaged	
Styrene	0.693	0.692	0.692	0.300	0.196	50.0	Averaged	
Bromoform	50.0	48.7	0.152	0.100	2.51	50.0	Quadratic	
Isopropylbenzene	1.03	1.03	1.03	0.100	-0.405	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	47.5	0.586	0.300	5.08	50.0	Linear	
69 4-Bromofluorobenzene	0.381	0.414	0.414	0.100	-8.570	50.0	Averaged	
1,2,3-Trichloropropane	50.0	44.0	0.553	0.100	12.1	50.0	Linear	
trans-1,4-Dichloro-2-butene	0.070	0.056	0.056	0.050	19.4	50.0	Averaged	
n-Propylbenzene	2.16	2.10	2.10	0.100	2.77	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62428.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62428.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-JUN-2024 2133
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.587	0.530	0.530	0.100	9.83	50.0	Averaged	
1,3,5-Trimethylbenzene	50.0	43.9	1.44	0.100	12.2	50.0	Linear	
2-Chlorotoluene	1.46	1.31	1.31	0.100	10.6	50.0	Averaged	
4-Chlorotoluene	1.66	1.49	1.49	0.100	10.3	50.0	Averaged	
tert-Butylbenzene	1.32	1.30	1.30	0.100	1.00	50.0	Averaged	
1,2,4-Trimethylbenzene	1.59	1.38	1.38	0.100	13.4	50.0	Averaged	
sec-Butylbenzene	1.75	1.71	1.71	0.100	2.62	50.0	Averaged	
p-Isopropyltoluene	50.0	43.6	1.47	0.100	12.8	50.0	Linear	
1,3-Dichlorobenzene	1.08	0.945	0.945	0.600	12.6	50.0	Averaged	
1,4-Dichlorobenzene	50.0	47.3	0.979	0.400	5.45	50.0	Linear	
Benzyl Chloride	50.0	33.2	0.318	0.010	33.7	50.0	Linear	
n-Butylbenzene	50.0	42.0	1.26	0.500	16.0	50.0	Linear	
1,2-Dichlorobenzene	1.08	0.933	0.933	0.400	13.3	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	48.2	0.074	0.050	3.62	50.0	Quadratic	
1,2,4-Trichlorobenzene	0.651	0.601	0.601	0.200	7.77	50.0	Averaged	
Hexachlorobutadiene	0.289	0.262	0.262	0.100	9.08	50.0	Averaged	
Naphthalene	50.0	44.6	1.35	0.200	10.7	50.0	Linear	
1,2,3-Trichlorobenzene	0.596	0.562	0.562	0.100	5.69	50.0	Averaged	
Methyl Acetate	50.0	50.5	0.261	0.100	-0.974	50.0	Linear	
Freon TF	50.0	47.1	0.253	0.100	5.84	50.0	Linear	
Cyclohexane	50.0	41.7	0.403	0.100	16.6	50.0	Linear	
Tetrahydrofuran	0.059	0.053	0.053	0.001	10.1	50.0	Averaged	
Methylcyclohexane	0.531	0.483	0.483	0.100	9.08	50.0	Averaged	
1,4-Dioxane	1000	918	0.003	0.001	8.22	50.0	Quadratic	
n-Butanol	1000	908	0.008	0.005	9.20	50.0	Quadratic	
n-Hexane	0.321	0.267	0.267	0.100	16.8	50.0	Averaged	
Diethyl ether	50.0	42.1	0.205	0.100	15.7	50.0	Linear	
Tert-butyl alcohol	1000	887	0.025	0.005	11.3	50.0	Linear	
Isopropyl alcohol	1000	898	0.020	0.005	10.2	50.0	Linear	
Diisopropyl ether	1.21	0.909	0.909	0.100	24.6	50.0	Averaged	
Butyl acrylate	0.460	0.379	0.379	0.100	17.6	50.0	Averaged	
Dicyclopentadiene	2.16	1.77	1.77	0.100	18.1	50.0	Averaged	
1,2,3-Trimethylbenzene	1.43	1.21	1.21	0.100	15.5	50.0	Averaged	
Ethanol	1000	878	0.004	0.001	12.2	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

RunID U62428.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U62428.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-JUN-2024 2133
ICAL Date(s) 20-JUN-2024, 20-JUN-2024
ICAL Times 11:23, 14:36
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	104	0.259	0.100	-3.871	50.0	Quadratic	
4-Methyl-2-pentanol	0.069	0.059	0.059	0.005	14.2	50.0	Averaged	
1,3-Butadiene	0.429	0.348	0.348	0.100	19.0	50.0	Averaged	
Epichlorohydrin	200	183	0.008	0.001	8.70	50.0	Quadratic	
94 1,2-Dichloroethylene (total	100	++++	0.305	0.200	++++	50.0	Quadratic	*
95 Xylenes (total)	0.380	0.386	0.386	0.100	-1.556	50.0	Averaged	
alpha-Methylstyrene	50.0	43.7	0.501	0.100	12.6	50.0	Quadratic	
Ethyl Acetate	++++	++++	1.517e+66	0.100	++++	50.0	Linear	*
Methyl Acrylate	0.414	0.339	0.339	0.100	18.3	50.0	Averaged	
n-Butyl acetate	0.399	0.367	0.367	0.100	7.99	50.0	Averaged	
Cyclohexanone	1000	541	0.014	0.005	45.9	50.0	Quadratic	
Isoprene	0.073	0.061	0.061	0.010	16.5	50.0	Averaged	
Isopropyl acetate	0.669	0.613	0.613	0.100	8.33	50.0	Averaged	
Allyl alcohol	0.016	0.013	0.013	0.004	16.8	50.0	Averaged	
Acetaldehyde	0.084	0.122	0.122	0.001	-45.465	50.0	Averaged	
Dimethyl Disulfide	50.0	41.2	0.148	0.020	17.6	50.0	Quadratic	
Isobutylene	++++	++++	1.517e+66	0.010	++++	50.0	Linear	*
Ethyl Acrylate	0.787	0.681	0.681	0.100	13.4	50.0	Averaged	
Butyl methacrylate	50.0	43.1	0.438	0.100	13.8	50.0	Linear	
Propylene oxide	0.023	0.018	0.018	0.005	19.9	50.0	Averaged	
Ethylene oxide	0.371	++++	1.517e+66	0.010	++++	50.0	Averaged	*
2-Ethylhexyl Acrylate	50.0	39.5	0.420	0.100	21.0	50.0	Quadratic	
Tetrahydrothiophene	0.284	0.250	0.250	0.100	12.0	50.0	Averaged	
sec-Butyl Ether	0.559	0.264	0.264	0.100	52.7	50.0	Averaged	*
n-Amyl acetate	0.442	0.390	0.390	0.100	11.9	50.0	Averaged	
2-Chloropropene	0.513	0.548	0.548	0.100	-6.685	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24060781

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/10/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24060781

EPA SW8260

VOA9_470367		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U62402.D	239809	#	4.82	#	339582	#	5.55	#	310203	#	8.19	#	174679	#	10.17	#
HS24060781-01	U62425.D	225740		4.81		325655		5.55		299516		8.19		161706		10.17	
HS24060781-02	U62424.D	222010		4.82		322733		5.55		289508		8.19		151341		10.17	
VBLKW-240624	U62406.D	231699		4.82		335457		5.55		301738		8.19		156909		10.17	
VLCSDW-240624	U62404.D	234234		4.81		338497		5.55		303246		8.19		168940		10.17	
VLCSW-240624	U62403.D	242709		4.81		349686		5.55		310118		8.19		168863		10.17	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060781

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/10/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	**HS24060781**	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA9-470156

Run ID VOA9_470156 **Start Date** 06/20/24 **EndDate** 06/20/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:23	VSTD00.25	ICAL1	VSTD00.25	U62002.D	06/20/24	1
11:44	VSTD00.5	ICAL2	VSTD00.5	U62003.D	06/20/24	1
12:06	VSTD001	ICAL3	VSTD001	U62004.D	06/20/24	1
12:27	VSTD002	ICAL4	VSTD002	U62005.D	06/20/24	1
12:49	VSTD005	ICAL5	VSTD005	U62006.D	06/20/24	1
13:10	VSTD020	ICAL6	VSTD020	U62007.D	06/20/24	1
13:32	VSTD050	ICAL7	VSTD050	U62008.D	06/20/24	1
13:53	VSTD100	ICAL8	VSTD100	U62009.D	06/20/24	1
14:15	VSTD150	ICAL9	VSTD150	U62010.D	06/20/24	1
14:36	VSTD200	ICAL	VSTD200	U62011.D	06/20/24	1
15:40	VSTD050	ICV	VSTD050	U62014.D	06/20/24	1

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	**HS24060781**	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA9-470367

Run ID VOA9_470367 **Start Date** 06/24/24 **EndDate** 06/24/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:05	VSTD050	CCV	VSTD050	U62402.D	06/24/24	1
12:32	VLCSW-240624	LCS	VLCSW-240624	U62403.D	06/24/24	1
12:54	VLCSDW-240624	LCSD	VLCSDW-240624	U62404.D	06/24/24	1
13:37	VBLKW-240624	MBLK	VBLKW-240624	U62406.D	06/24/24	1
19:45	HS24060694-04	SAMP	ZZZZZZZZZZ	U62423.D	06/24/24	10
20:07	HS24060781-02	SAMP	Trip Blank	U62424.D	06/24/24	1
20:29	HS24060781-01	SAMP	LH18/24-	U62425.D	06/24/24	1
21:12	HS24060795-03	SAMP	ZZZZZZZZZZ	U62427.D	06/24/24	1
21:33	VSTD050	CCV_END	VSTD050	U62428.D	06/24/24	1

MSVOA09 -Logbook

Batch: 60559 **Analyst:** Tianna Smith

Date: 06-20-2024 **Reviewer:**

Method: 8260 **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	06-20-2024 11:02 am	1.00	0.00 mL	0.00 mL	U62001.D	Liquid	Y	NA
	Auto find/purged 1 uL BFB std									
2	VSTD00.25	ICAL1	06-20-2024 11:23 am	1.00	5.00 mL	0.00 mL	U62002.D	Liquid	Y	NA
3	VSTD00.5	ICAL2	06-20-2024 11:44 am	1.00	5.00 mL	0.00 mL	U62003.D	Liquid	Y	NA
4	VSTD001	ICAL3	06-20-2024 12:06 pm	1.00	5.00 mL	0.00 mL	U62004.D	Liquid	Y	NA
5	VSTD002	ICAL4	06-20-2024 12:27 pm	1.00	5.00 mL	0.00 mL	U62005.D	Liquid	Y	NA
6	VSTD005	ICAL5	06-20-2024 12:49 pm	1.00	5.00 mL	0.00 mL	U62006.D	Liquid	Y	NA
7	VSTD020	ICAL6	06-20-2024 01:10 pm	1.00	5.00 mL	0.00 mL	U62007.D	Liquid	Y	NA
8	VSTD050	ICAL7	06-20-2024 01:32 pm	1.00	5.00 mL	0.00 mL	U62008.D	Liquid	Y	NA
9	VSTD100	ICAL8	06-20-2024 01:53 pm	1.00	5.00 mL	0.00 mL	U62009.D	Liquid	Y	NA
10	VSTD150	ICAL9	06-20-2024 02:15 pm	1.00	5.00 mL	0.00 mL	U62010.D	Liquid	Y	NA
11	VSTD200	ICAL	06-20-2024 02:36 pm	1.00	5.00 mL	0.00 mL	U62011.D	Liquid	Y	NA
12	BLK	SAMP	06-20-2024 02:58 pm	1.00	5.00 mL	0.00 mL	U62012.D	Liquid	Y	NA
13	BFB	TUNE	06-20-2024 03:19 pm	1.00	0.00 mL	0.00 mL	U62013.D	Liquid	Y	NA
	Auto find/purged 1 uL BFB std									
14	VSTD050	ICV/CCV	06-20-2024 03:40 pm	1.00	5.00 mL	0.00 mL	U62014.D	Liquid	Y	NA
	10 uL Cal std/50 ml DI									
15	VLCSW-240620	LCS	06-20-2024 04:23 pm	1.00	5.00 mL	0.00 mL	U62015.D	Liquid	Y	NA
	4 uL ICV std/50 ml DI									
16	VLCSDW-240620	LCSD	06-20-2024 04:45 pm	1.00	5.00 mL	0.00 mL	U62016.D	Liquid	Y	NA
	4 uL ICV std/50 ml DI									
17	VBLKM-240620	MBLK	06-20-2024 05:06 pm	50.00	5.00 mL	0.00 mL	U62017.D	Liquid	Y	NA
18	VBLKW-240620	MBLK	06-20-2024 05:27 pm	1.00	5.00 mL	0.00 mL	U62018.D	Liquid	Y	NA
19	HS24060459-06	SAMP	06-20-2024 05:49 pm	1.00	5.00 mL	0.00 mL	U62019.D	Liquid	Y	<2
20	HS24061023-01	SAMP	06-20-2024 06:10 pm	1.00	5.00 mL	0.00 mL	U62020.D	Liquid	Y	<2
21	HS24061023-02	SAMP	06-20-2024 06:32 pm	1.00	5.00 mL	0.00 mL	U62021.D	Liquid	Y	<2
22	MBLK-213703	MBLK	06-20-2024 06:56 pm	20.00	5.00 mL	0.00 mL	U62022.D	Liquid	Y	NA
	2.5 ml into 50 ml DI water									
23	HS24060695-16	SAMP	06-20-2024 07:18 pm	20.00	5.00 mL	0.00 mL	U62023.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
24	HS24060695-16MS	MS	06-20-2024 07:39 pm	20.00	5.00 mL	0.00 mL	U62024.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
25	HS24060695-16MSD	MSD	06-20-2024 08:00 pm	20.00	5.00 mL	0.00 mL	U62025.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
26	HS24060695-17	SAMP	06-20-2024 08:25 pm	20.00	5.00 mL	0.00 mL	U62026.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
27	HS24060905-01	SAMP	06-20-2024 08:49 pm	20.00	5.00 mL	0.00 mL	U62027.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
28	HS24060905-02	SAMP	06-20-2024 09:12 pm	20.00	5.00 mL	0.00 mL	U62028.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
29	HS24060905-03	SAMP	06-20-2024 09:37 pm	20.00	5.00 mL	0.00 mL	U62029.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
30	HS24060905-04	SAMP	06-20-2024 10:01 pm	20.00	5.00 mL	0.00 mL	U62030.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
31	HS24060905-05	SAMP	06-20-2024 10:25 pm	20.00	5.00 mL	0.00 mL	U62031.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
32	HS24060905-06	SAMP	06-20-2024 10:48 pm	20.00	5.00 mL	0.00 mL	U62032.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
33	HS24060905-07	SAMP	06-20-2024 11:12 pm	20.00	5.00 mL	0.00 mL	U62033.D	Liquid	Y	<2

MSVOA09 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
	2.5 ml into 50 ml DI water									
34	HS24060695-18	SAMP	06-20-2024 11:37 pm	20.00	5.00 mL	0.00 mL	U62034.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
35	HS24060695-19	SAMP	06-21-2024 12:00 am	20.00	5.00 mL	0.00 mL	U62035.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
36	HS24060695-20	SAMP	06-21-2024 12:25 am	20.00	5.00 mL	0.00 mL	U62036.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
37	HS24060695-21	SAMP	06-21-2024 12:49 am	20.00	5.00 mL	0.00 mL	U62037.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
38	HS24060930-01	SAMP	06-21-2024 01:10 am	50.00	5.00 mL	0.00 mL	U62038.D	Liquid	Y	<2
	1 ml into 50 ml DI water									
39	HS24060930-02	SAMP	06-21-2024 01:32 am	50.00	5.00 mL	0.00 mL	U62039.D	Liquid	Y	<2
	1 ml into 50 ml DI water									
40	HS24060826-01	SAMP	06-21-2024 01:56 am	20.00	5.00 mL	0.00 mL	U62040.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
41	HS24060649-01	SAMP	06-21-2024 02:20 am	5000.0	5.00 mL	0.00 mL	U62041.D	Liquid	Y	<2
	10 UL INTO 50 ML DI WATER									
42	BLK	SAMP	06-21-2024 02:41 am	1.00	5.00 mL	0.00 mL	U62042.D	Liquid	Y	NA
	clean up blk									
43	BLK	SAMP	06-21-2024 03:03 am	1.00	5.00 mL	0.00 mL	U62043.D	Liquid	Y	NA
	clean up blk									
44	BFB	TUNE	06-21-2024 03:24 am	1.00	0.00 mL	0.00 mL	V62001.D	Liquid	Y	NA
	Auto find/purged 1 uL BFB std									
45	VSTD050	CCV	06-21-2024 03:46 am	1.00	5.00 mL	0.00 mL	V62002.D	Liquid	Y	NA
	10 uL Cal std/50 ml DI									
46	VLCSW-240620	LCS	06-21-2024 04:29 am	1.00	5.00 mL	0.00 mL	V62003.D	Liquid	Y	NA
	4 uL ICV std/50 ml DI									
47	VLCSDW-240620	LCSD	06-21-2024 04:50 am	1.00	5.00 mL	0.00 mL	V62004.D	Liquid	Y	NA
	4 uL ICV std/50 ml DI									
48	VBLKM-240620	MBLK	06-21-2024 05:12 am	1.00	5.00 mL	0.00 mL	V62005.D	Liquid	Y	NA
49	VBLKW-240620	MBLK	06-21-2024 05:33 am	1.00	5.00 mL	0.00 mL	V62006.D	Liquid	Y	NA
50	HS24060838-05	SAMP	06-21-2024 05:55 am	1.00	5.00 mL	0.00 mL	V62007.D	Liquid	Y	<2
51	HS24050809-28	SAMP	06-21-2024 06:17 am	1.00	5.00 mL	0.00 mL	V62008.D	Liquid	Y	<2
52	MBLK-213600	SAMP	06-21-2024 06:41 am	20.00	5.00 mL	0.00 mL	V62009.D	Liquid	Y	NA
	2.5 ml into 50 ml DI water									
53	HS24060230-01	SAMP	06-21-2024 07:02 am	20.00	5.00 mL	0.00 mL	V62010.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									

MSVOA09 -Logbook

Batch: 60635 **Analyst:** Firat Tastan

Date: 06-24-2024 **Reviewer:**

Method: 8260 **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	06-24-2024 10:43 am	1.00	0.00 mL	0.00 mL	U62401.D	Liquid	Y	<2
2	VSTD050	CCV	06-24-2024 11:05 am	1.00	5.00 mL	0.00 mL	U62402.D	Liquid	Y	<2
3	VLCSW-240624	LCS	06-24-2024 12:32 pm	1.00	5.00 mL	0.00 mL	U62403.D	Liquid	Y	<2
4	VLCSDW-240624	LCSD	06-24-2024 12:54 pm	1.00	5.00 mL	0.00 mL	U62404.D	Liquid	Y	<2
5	VBLKM-240624	MBLK	06-24-2024 01:15 pm	50.00	5.00 mL	0.00 mL	U62405.D	Liquid	Y	<2
6	VBLKW-240624	MBLK	06-24-2024 01:37 pm	1.00	5.00 mL	0.00 mL	U62406.D	Liquid	Y	<2
7	HS24060645-07	SAMP	06-24-2024 01:58 pm	50.00	5.00 mL	0.00 mL	U62407.D	Liquid	Y	<2
8	HS24060686-01	SAMP	06-24-2024 02:19 pm	5000.0	5.00 mL	0.00 mL	U62408.D	Liquid	Y	<2
9	HS24060686-03	SAMP	06-24-2024 02:41 pm	5000.0	5.00 mL	0.00 mL	U62409.D	Liquid	Y	<2
10	BLK	SAMP	06-24-2024 03:02 pm	1.00	5.00 mL	0.00 mL	U62410.D	Liquid	Y	<2
11	HS24060829-06	SAMP	06-24-2024 03:24 pm	1.00	5.00 mL	0.00 mL	U62411.D	Liquid	Y	<2
12	HS24060829-07	SAMP	06-24-2024 03:46 pm	1.00	5.00 mL	0.00 mL	U62412.D	Liquid	Y	<2
13	HS24060959-04	SAMP	06-24-2024 04:07 pm	1.00	5.00 mL	0.00 mL	U62413.D	Liquid	Y	<2
14	HS24061001-01	SAMP	06-24-2024 04:29 pm	1.00	5.00 mL	0.00 mL	U62414.D	Liquid	Y	<2
15	HS24061001-02	SAMP	06-24-2024 04:50 pm	1.00	5.00 mL	0.00 mL	U62415.D	Liquid	Y	<2
16	HS24061001-03	SAMP	06-24-2024 05:12 pm	1.00	5.00 mL	0.00 mL	U62416.D	Liquid	Y	<2
17	HS24061130-03	SAMP	06-24-2024 05:34 pm	1.00	5.00 mL	0.00 mL	U62417.D	Liquid	Y	<2
18	HS24061202-02	SAMP	06-24-2024 05:55 pm	1.00	5.00 mL	0.00 mL	U62418.D	Liquid	Y	<2
19	HS24061234-03	SAMP	06-24-2024 06:17 pm	1.00	5.00 mL	0.00 mL	U62419.D	Liquid	Y	<2
20	HS24061366-03	SAMP	06-24-2024 06:38 pm	1.00	5.00 mL	0.00 mL	U62420.D	Liquid	Y	<2
21	HS24061362-04	SAMP	06-24-2024 07:00 pm	1.00	5.00 mL	0.00 mL	U62421.D	Liquid	Y	<2
22	HS24061237-03	SAMP	06-24-2024 07:22 pm	1.00	5.00 mL	0.00 mL	U62422.D	Liquid	Y	<2
23	HS24060694-04	SAMP	06-24-2024 07:45 pm	10.00	5.00 mL	0.00 mL	U62423.D	Liquid	Y	<2
24	HS24060781-02	SAMP	06-24-2024 08:07 pm	1.00	5.00 mL	0.00 mL	U62424.D	Liquid	Y	<2
25	HS24060781-01	SAMP	06-24-2024 08:29 pm	1.00	5.00 mL	0.00 mL	U62425.D	Liquid	Y	<2
26	HS24060795-03	SAMP	06-24-2024 09:12 pm	1.00	5.00 mL	0.00 mL	U62427.D	Liquid	Y	<2
27	VSTD050	CCV	06-24-2024 09:33 pm	1.00	5.00 mL	0.00 mL	U62428.D	Liquid	Y	<2
28	BLK	SAMP	06-24-2024 09:55 pm	1.00	5.00 mL	0.00 mL	U62429.D	Liquid	Y	<2

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060781

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/10/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240620.b\U62001.D Page 1
Report Date: 20-Jun-2024 11:18

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240620.b\U62001.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-JUN-2024 11:02
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240620.b\8260C.m
Meth Date : 19-Jun-2024 08:59 Quant Type: ISTD
Cal Date : 18-JUN-2024 11:55 Cal File: U61803.D
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	
*	1 Pentafluorobenzene	168	4.815	4.811	(1.000)	257920	50.0000		
	2 Dichlorodifluoromethane	85	1.021	1.156	(0.212)	10702	8.10929		
	3 Chloromethane	50	1.014	1.291	(0.211)	9354	0.96322		
	5 Vinyl Chloride	62	1.014	1.374	(0.211)	17034	8.39072		
	15 Iodomethane	142	2.472	2.457	(0.513)	1232	6.21403		
$	30 Dibromofluoromethane	113	4.747	4.744	(0.986)	96395	58.7541		(R)
	33 1,2-Dichloroethane	62	5.553	5.171	(1.000)	13302	4.31972		
	34 Carbon Tetrachloride	117	4.815	4.905	(0.867)	24018	11.5765		
$	35 1,2-Dichloroethane-d4	65	5.096	5.093	(1.058)	120650	61.5919		(R)
*	36 1,4-Difluorobenzene	114	5.553	5.550	(1.000)	380982	50.0000		
	42 1,2-Dichloropropane	63	5.553	6.007	(1.000)	80286	43.2407		
	45 4-Methyl-2-Pentanone	43	6.922	6.851	(0.846)	1912	1.25232		
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	340517	50.0000		
$	48 Toluene-d8	98	6.922	6.922	(0.846)	378496	64.2655		(R)
	49 Ethyl Methacrylate	69	6.922	7.289	(1.246)	1297	0.13078		
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	3665	0.21049		
$	69 4-Bromofluorobenzene	95	9.193	9.197	(1.123)	133571	59.2548		(R)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	174698	50.0000		
	71 1,2,3-Trichloropropane	75	9.193	9.362	(0.904)	65984	34.2955		
	86 Benzyl Chloride	91	10.314	10.315	(1.260)	82137	36.5103		

141	Cyclohexane	56	4.815	4.811 (1.000)	4898	0.19936
166	1,2,3-Trimethylbenzene	105	10.314	10.236 (1.014)	1444	0.70121

Data File: \\nahstws005\Target\chem\voa9.i\U240620.b\U62001.D Page 2
Report Date: 20-Jun-2024 11:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
203 2-Ethylhexyl Acrylate	55	11.979	12.046	(1.178)	1696	1.31708	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62002.D Page 1
Report Date: 09-Jul-2024 16:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62002.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 20-JUN-2024 11:23
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240620.b\8260C.m
Meth Date : 09-Jul-2024 16:04 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 11:23 Cal File: U62002.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

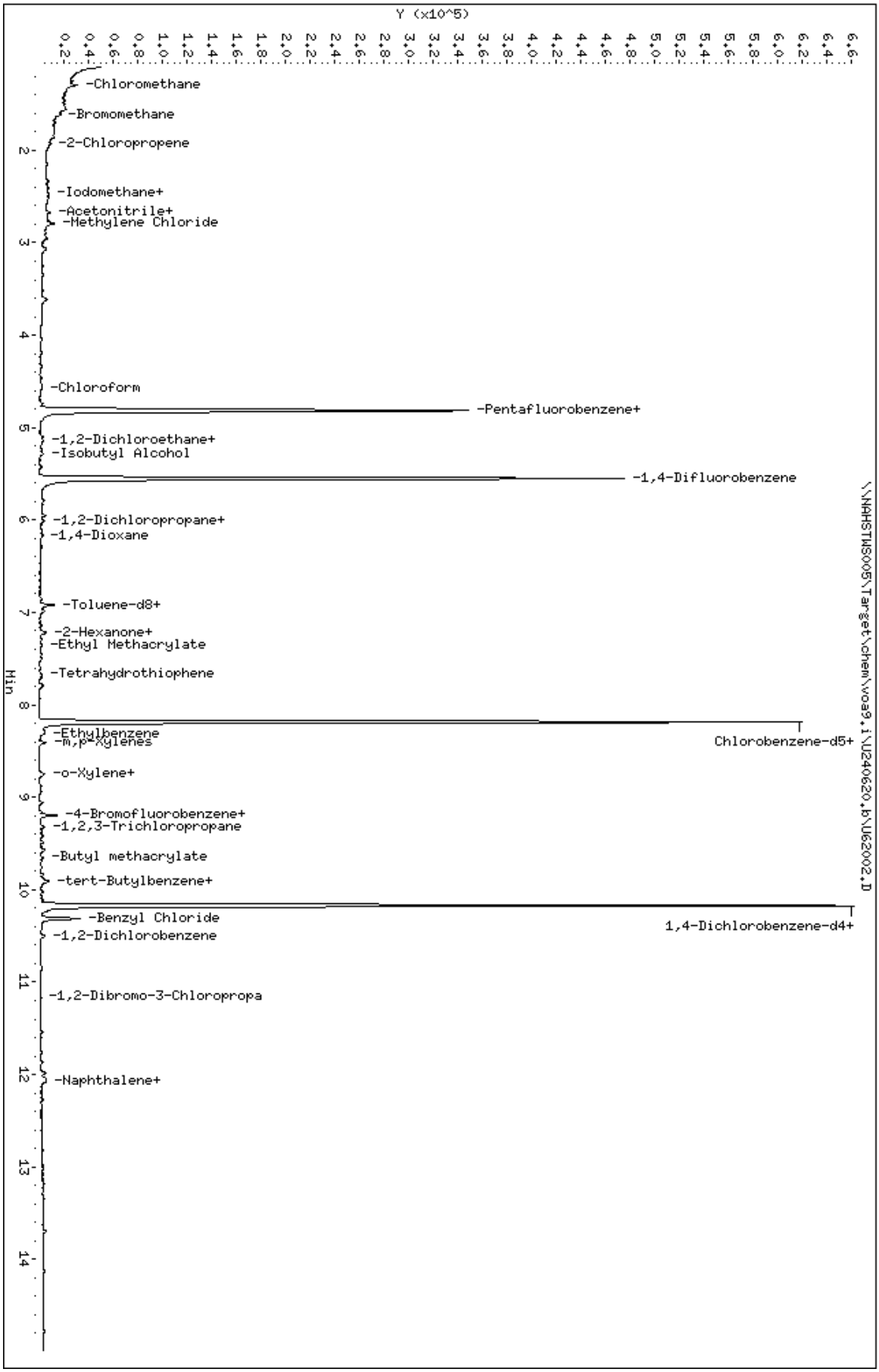
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	252013	50.0000	
	2 Dichlorodifluoromethane	85	1.037	1.037	(0.215)	1293	0.25000	0.71
	5 Vinyl Chloride	62	1.007	1.007	(0.209)	8422	0.25000	3.88
	12 Isobutyl Alcohol	43	5.288	5.288	(1.098)	1699	5.00000	6.82(Ta)
	13 Acetonitrile	39	2.667	2.667	(0.554)	870	2.50000	(a)
	14 Allyl Chloride	41	2.671	2.671	(0.555)	1866	0.25000	(a)
	15 Iodomethane	142	2.465	2.465	(0.512)	1069	0.50000	2.36(T)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	1136	0.25000	0.67
	32 1,1-Dichloropropene	75	4.812	4.812	(0.867)	17943	0.25000	7.96
	34 Carbon Tetrachloride	117	4.815	4.815	(0.868)	23171	0.25000	12.27
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	1510	50.0000	0.70(T)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	369287	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	2419	0.25000	0.31(a)
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	656	0.25000	0.32(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	325076	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	7499	50.0000	1.18(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	690	0.25000	0.29(a)
	50 Toluene	91	6.982	6.982	(0.853)	2002	0.25000	0.27(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.475)	3366	0.25000	1.66(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	643	0.25000	0.28(a)

62 m,p-Xylenes	106	8.407	8.407 (1.027)	1224	0.50000	0.44(a)
63 o-Xylene	106	8.748	8.748 (1.069)	607	0.25000	0.22(a)

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	64 Styrene	104	8.763	8.763	(1.071)	934	0.25000	0.20(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	3971	50.0000	1.60(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	164222	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	607	0.25000	1.11(a)
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	877	0.25000	0.20(Ta)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	1067	0.25000	0.20(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	909	0.25000	0.25(a)
	86 Benzyl Chloride	91	10.315	10.315	(1.260)	21955	0.25000	2.75(a)
	88 1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	961	0.25000	0.27(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.162	11.162	(1.097)	23	0.25000	0.33(aM)
	92 Naphthalene	128	12.076	12.076	(1.187)	1179	0.25000	2.18(a)
	141 Cyclohexane	56	4.812	4.812	(0.999)	5136	0.25000	1.18(a)
	147 Methylcyclohexane	55	5.947	5.947	(1.072)	1403	0.25000	0.35(a)
	149 Isopropyl alcohol	45	2.559	2.559	(0.531)	1216	5.00000	(Ta)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	1606	0.25000	0.34(a)
	151 4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	3353	5.00000	6.58
	134 Cyclohexanone	55	9.156	9.156	(0.900)	662	5.00000	(Ta)
	203 2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1668	0.25000	2.21(a)
	204 Tetrahydrothiophene	60	7.672	7.672	(0.937)	799	0.25000	0.43(aA)
	205 sec-Butyl Ether	57	7.214	7.214	(0.881)	876	0.25000	0.24(aA)
	206 2-Chloropropene	41	1.925	1.925	(0.400)	1159	0.25000	0.44(aA)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\woa9.i\U240620.b\U62002.D
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Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

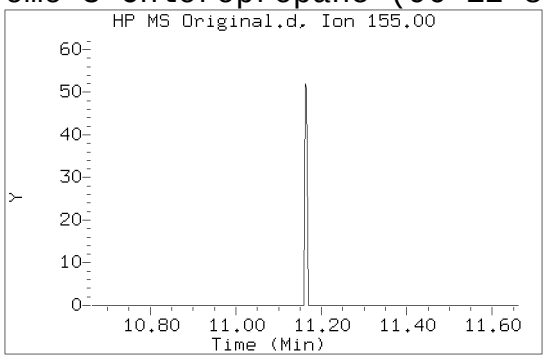
Instrument: WOA9.i
Operator: TS
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Inj Date : 20-JUN-2024 11:23
InstruID : VOA9.i
LabSampID : VSTD00.25

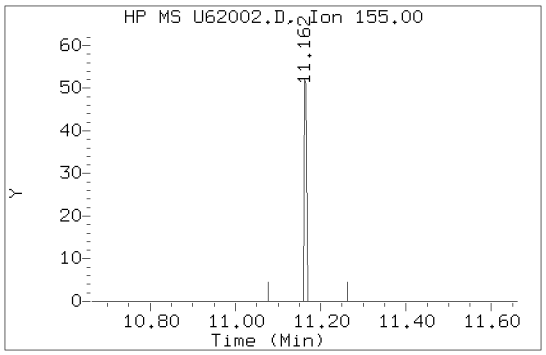
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

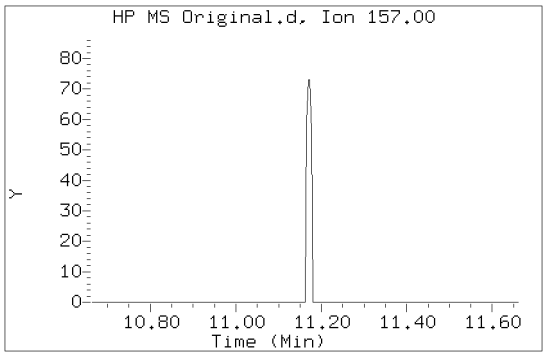
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zaid



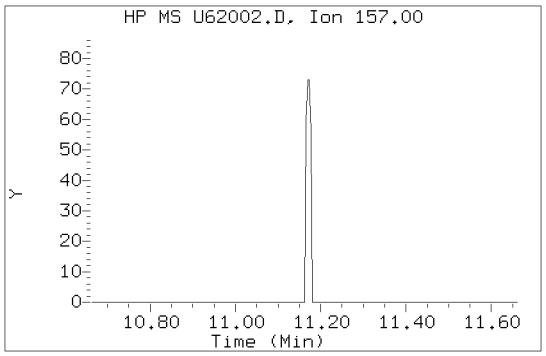
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16:04



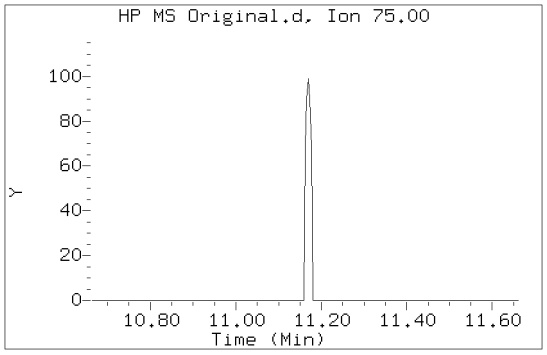
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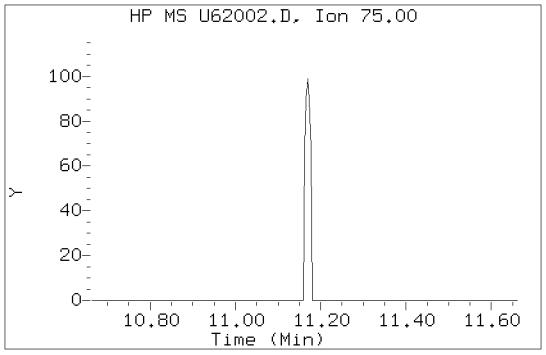
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BEFORE
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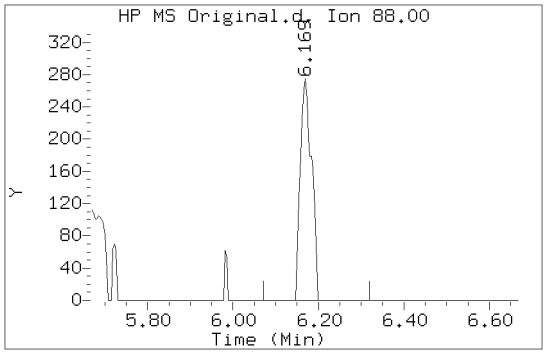
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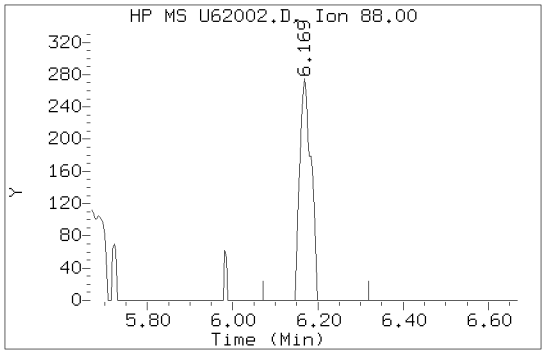
1,4-Dioxane ()

Reason Code:

BEFORE
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29-Jun-2024
12:15
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zaid



AFTER
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HEIGHT
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09-Jul-2024
16:04



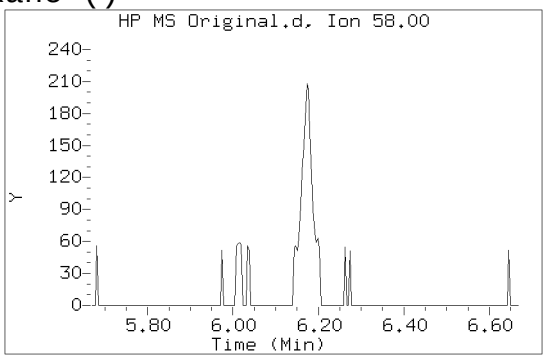
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Inj Date : 20-JUN-2024 11:23
InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

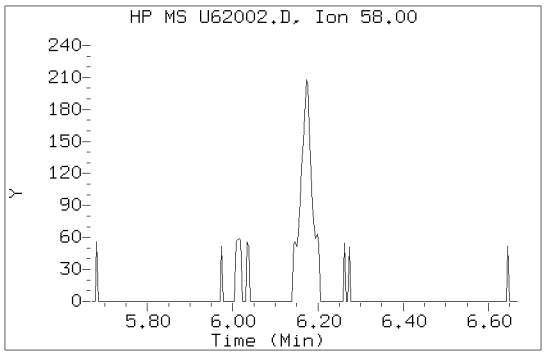
BEFORE

MASS
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29-Jun-2024
12:15
s
zaid



AFTER

MASS
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HEIGHT
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09-Jul-2024
16:04



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D Page 1
Report Date: 29-Jun-2024 12:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 20-JUN-2024 11:44
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:19 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:36 Cal File: U62011.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	236632	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	731	0.50000	0.43(aM)
3	Chloromethane	50	1.303	1.303	(0.271)	7597	0.50000	0.50
4	Propionitrile	54	4.343	4.343	(0.902)	1664	5.00000	0.96(aM)
5	Vinyl Chloride	62	1.385	1.385	(0.288)	1139	0.50000	0.66(M)
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	1012	0.50000	0.44(a)
11	1,1-Dichloroethene	96	2.333	2.333	(0.485)	717	0.50000	0.51(M)
12	Isobutyl Alcohol	43	5.287	5.287	(1.098)	2668	10.0000	11.42(a)
13	Acetonitrile	39	2.675	2.675	(0.555)	1086	5.00000	(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	3115	0.50000	0.24(a)
15	Iodomethane	142	2.472	2.472	(0.513)	1369	1.00000	3.09(T)
16	Acrylonitrile	53	3.072	3.072	(0.638)	1025	1.00000	1.27
17	Methylene Chloride	84	2.798	2.798	(0.581)	2895	0.50000	0.15(a)
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	2745	0.50000	1.08
19	Carbon Disulfide	76	2.525	2.525	(0.524)	3918	1.00000	1.02
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	1102	0.50000	0.14(Ta)
21	Vinyl Acetate	43	4.350	4.350	(0.903)	1114	1.00000	1.03(M)
23	Chloroprene	53	3.615	3.615	(0.751)	1330	0.50000	0.31(a)
24	2-Butanone	43	4.279	4.279	(0.889)	1392	1.00000	1.84(M)
25	Methacrylonitrile	41	4.500	4.500	(0.935)	715	0.50000	1.50(aM)

26	2,2-Dichloropropane	77	4.182	4.182 (0.868)	1204	0.50000	1.10(M)
27	cis-1,2-Dichloroethene	96	4.197	4.197 (0.872)	1138	0.50000	0.29(a)

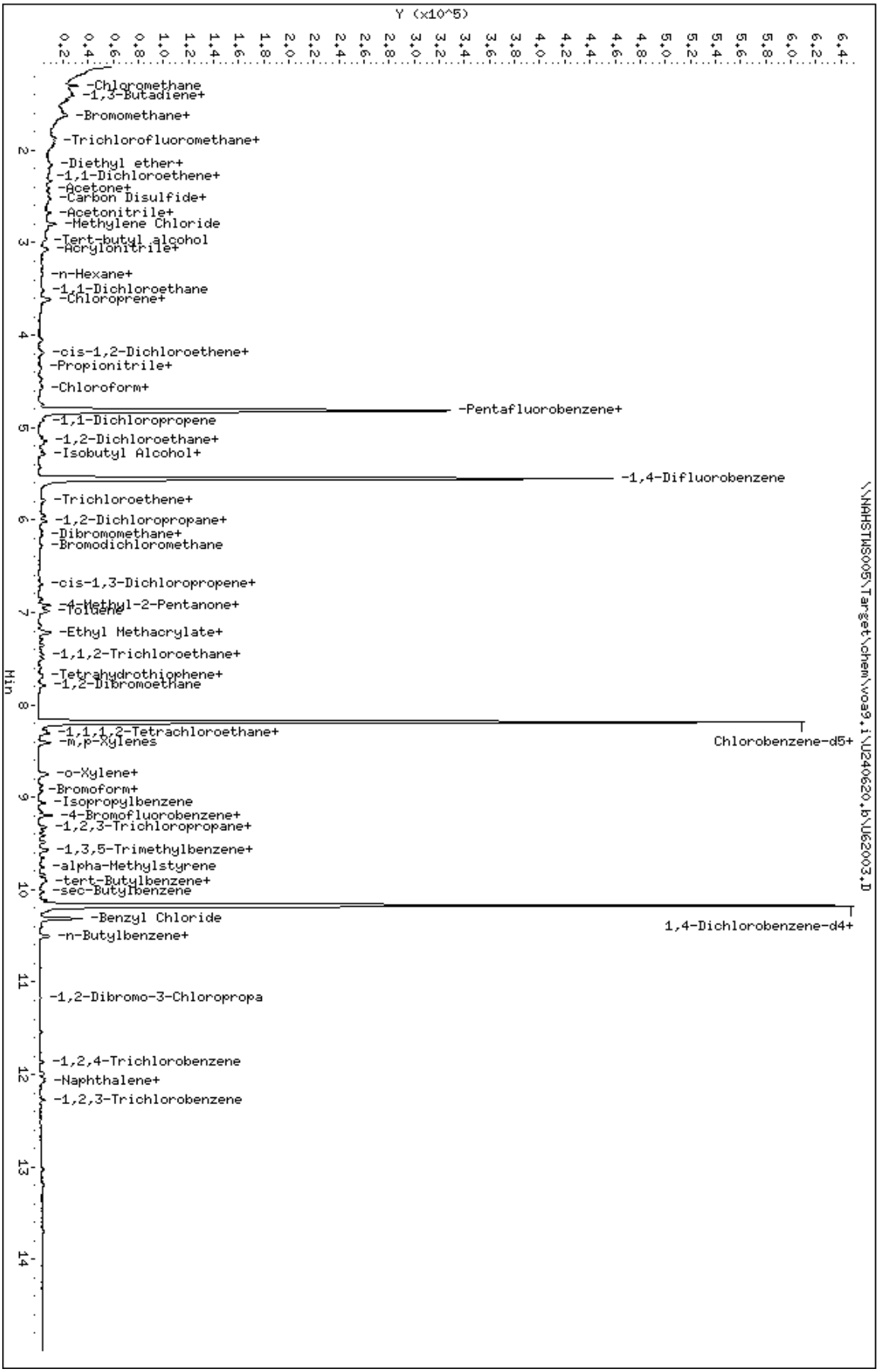
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.474	4.474	(0.929)	578	0.50000	0.61(M)
$	30 Dibromofluoromethane	113	4.751	4.751	(0.987)	1351	0.50000	0.85
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	1050	0.50000	0.47(a)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	1295	0.50000	0.60(M)
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	853	0.50000	0.47(aM)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.059)	1847	0.50000	0.92(T)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	349852	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	4827	0.50000	0.67
	38 Trichloroethene	130	5.790	5.790	(1.043)	987	0.50000	0.56(aM)
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	1081	0.50000	0.53(aM)
	40 Methyl Methacrylate	41	5.835	5.835	(1.212)	269	0.50000	0.43(aM)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	1221	0.50000	0.64(a)
	44 Dibromomethane	93	6.116	6.116	(1.101)	723	0.50000	0.64(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	2018	1.00000	1.15(a)
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	1255	0.50000	0.52(aM)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	315910	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	5908	0.50000	0.96(a)
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	1395	0.50000	0.62(a)
	50 Toluene	91	6.982	6.982	(0.853)	4147	0.50000	0.57(a)
	51 trans-1,3-Dichloropropene	75	7.203	7.203	(1.297)	864	0.50000	2.59(a)
	52 2-Hexanone	43	7.218	7.218	(0.882)	2202	1.00000	1.02(a)
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	876	0.50000	0.62(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	1760	0.50000	0.60(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	629	0.50000	0.43(aM)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	635	0.50000	0.47(a)
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	917	0.50000	0.59(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	3858	0.50000	2.17(a)
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	868	0.50000	0.56(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	1196	0.50000	0.53(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	2596	1.00000	0.97(a)
	63 o-Xylene	106	8.751	8.751	(1.069)	1290	0.50000	0.49(a)
	64 Styrene	104	8.762	8.762	(1.071)	2162	0.50000	0.49(a)
	66 Bromoform	173	8.916	8.916	(1.089)	363	0.50000	1.32(aM)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	2892	0.50000	0.44(a)
	68 1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	1485	0.50000	0.41(aM)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	3166	0.50000	1.31(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	162478	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1417	0.50000	1.50(a)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	303	0.50000	0.68(aM)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	3129	0.50000	0.44(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	1148	0.50000	0.60(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	2304	0.50000	2.10(a)
	76 2-Chlorotoluene	91	9.486	9.486	(0.933)	2815	0.50000	0.59(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	2972	0.50000	0.55(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	1816	0.50000	0.42(a)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	2487	0.50000	0.48(aM)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	2503	0.50000	0.43(a)
	82 p-Isopropyltoluene	119	10.149	10.149	(0.998)	2165	0.50000	2.02(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	2314	0.50000	0.65(a)
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	2680	0.50000	0.17(a)
	86 Benzyl Chloride	91	10.314	10.314	(1.260)	22557	0.50000	3.22(a)
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	1966	0.50000	1.75(a)

88	1,2-Dichlorobenzene	146	10.509	10.509 (1.033)	2385	0.50000	0.68(a)
89	1,2-Dibromo-3-Chloropropane	155	11.177	11.177 (1.099)	119	0.50000	0.73(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	1239	0.50000	0.58(aM)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	463	0.50000	0.49(aM)
92	Naphthalene	128	12.076	12.076	(1.187)	2273	0.50000	2.40(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	1018	0.50000	0.52(aM)
146	Methyl acetate	43	2.720	2.720	(0.565)	1084	0.50000	(aM)
141	Cyclohexane	56	4.815	4.815	(1.000)	5248	0.50000	1.37(a)
147	Methylcyclohexane	55	5.947	5.947	(1.071)	2050	0.50000	0.55(a)
132	n-Butanol	56	5.835	5.835	(1.212)	741	10.0000	16.35(aM)
136	n-Hexane	57	3.346	3.346	(0.695)	702	0.50000	0.46(Ta)
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	2276	10.0000	4.43(a)
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	1890	10.0000	3.08(Ta)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	3700	0.50000	0.64(aM)
162	Butyl acrylate	55	8.740	8.740	(1.068)	1564	0.50000	0.53(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	4384	0.50000	0.62(Ta)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	2690	0.50000	0.57(a)
167	Ethanol	45	2.086	2.086	(0.433)	318	10.0000	(aM)
172	tert-Butyl formate	59	5.242	5.242	(1.089)	1751	1.00000	0.55(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	6075	10.0000	12.59
140	1,3-Butadiene	54	1.407	1.407	(0.292)	944	0.50000	0.46(a)
182	Epichlorohydrin	57	6.637	6.637	(1.195)	129	2.00000	7.01(M)
M 94	1,2-Dichloroethylene (total)	96				2240	1.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	659	0.50000	(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.910)	1242	0.50000	0.63(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	1281	0.50000	0.50(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	1334	10.0000	7.91(Ta)
185	Isoprene	39	2.157	2.157	(0.448)	195	0.50000	0.56(aM)
188	Isopropyl acetate	43	5.287	5.287	(0.952)	2814	0.50000	0.60(aM)
150	Allyl alcohol	57	3.346	3.346	(0.695)	702	10.0000	9.25
200	Dimethyl Disulfide	94	6.749	6.749	(0.825)	387	0.50000	1.63(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	2148	0.50000	0.57(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1065	0.50000	1.86(a)
204	Tetrahydrothiophene	60	7.675	7.675	(0.938)	1037	0.50000	0.57(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	2158	0.50000	0.61(aAM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	1387	0.50000	0.49(aM)
206	2-Chloropropene	41	1.929	1.929	(0.401)	1472	0.50000	0.60(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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Column phase: DB624

Instrument: VOA9,i
Operator: TS
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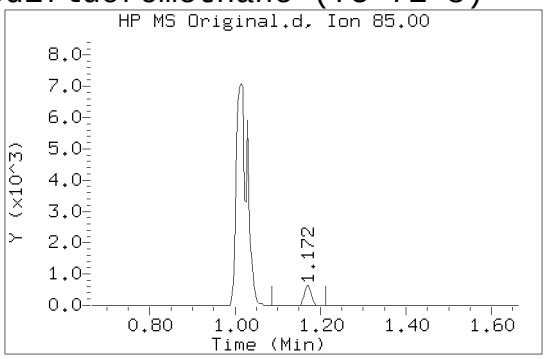
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LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

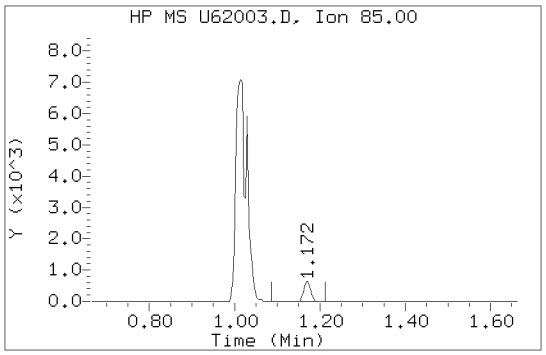
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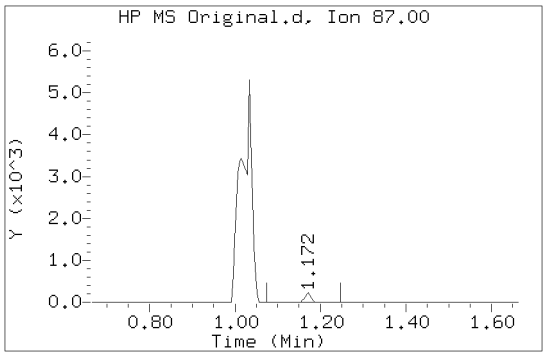
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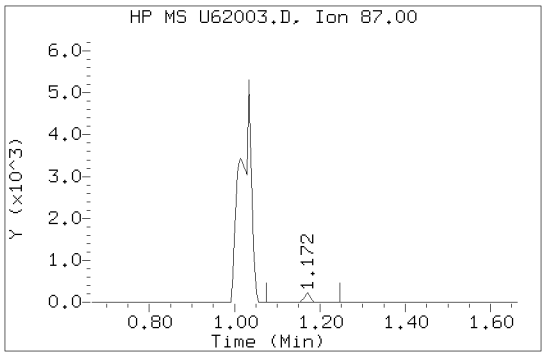
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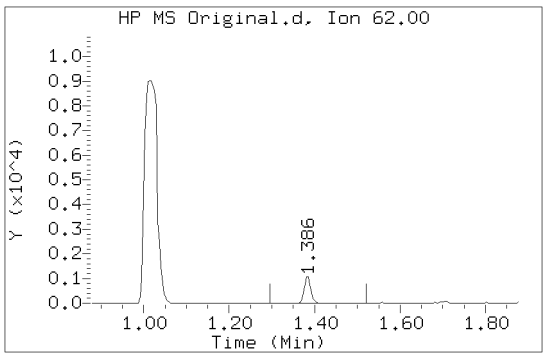


Vinyl Chloride (75-01-4)

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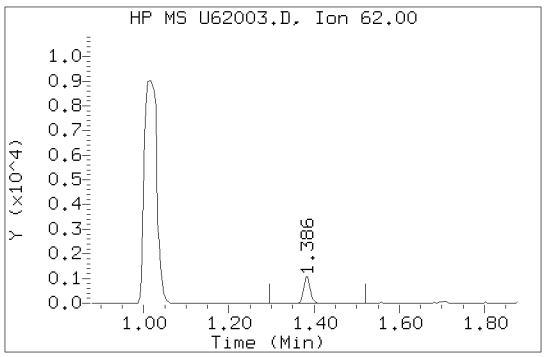
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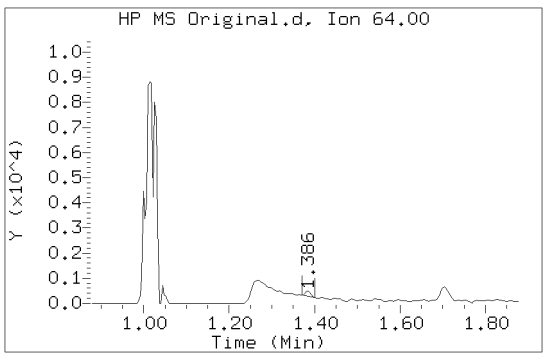
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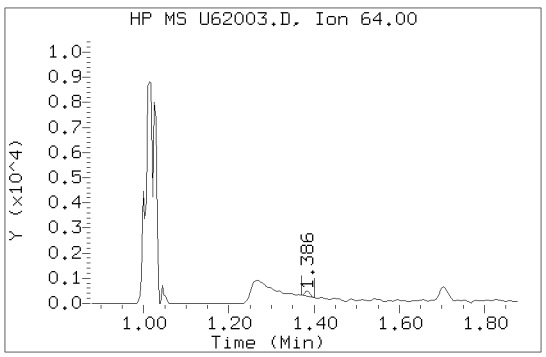
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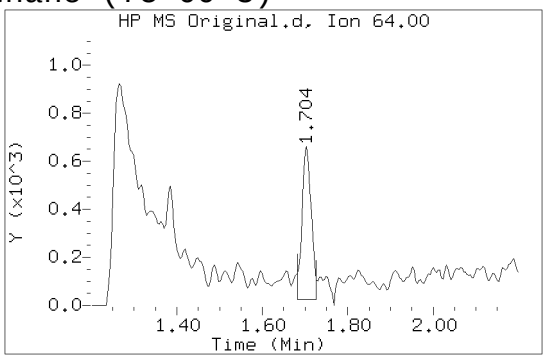
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LabSampID : VSTD00.5

Chloroethane (75-00-3)

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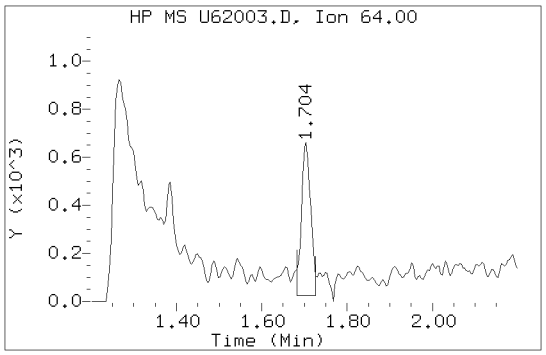
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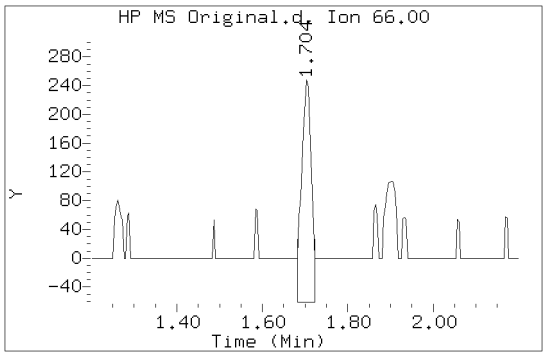
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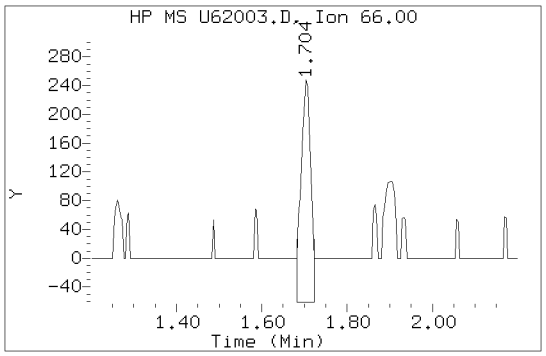
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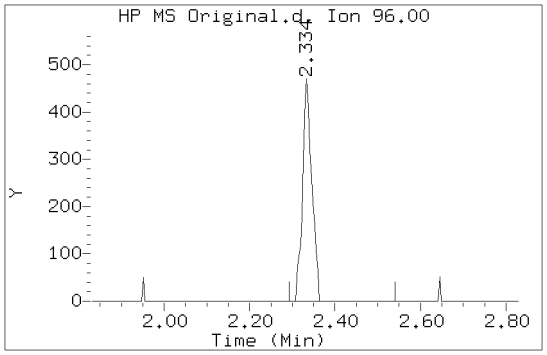


1,1-Dichloroethene (75-35-4)

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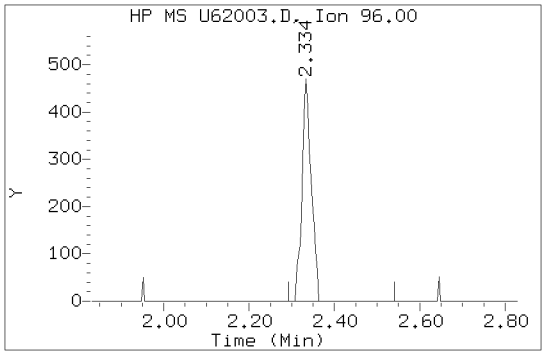
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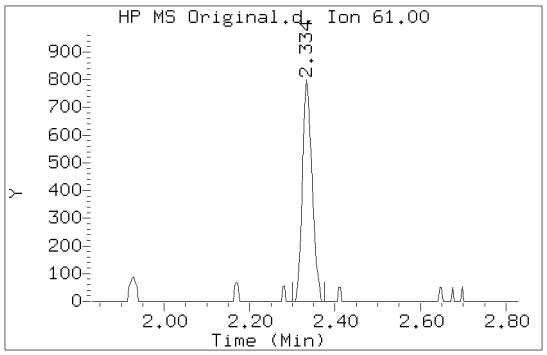
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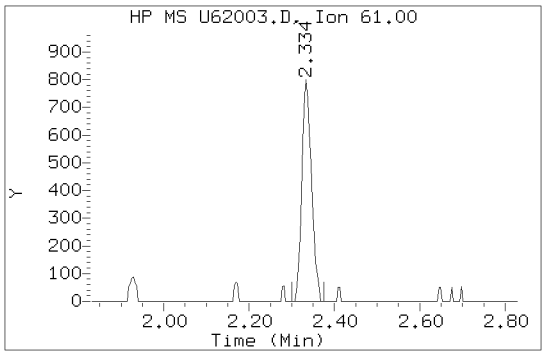
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AFTER

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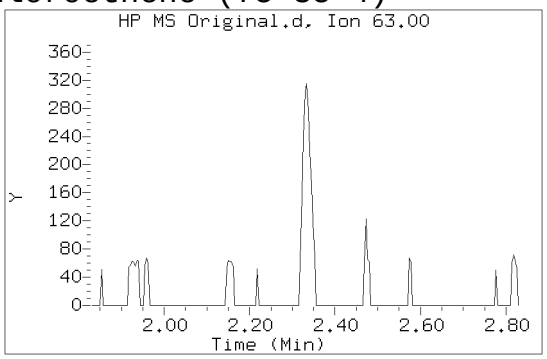


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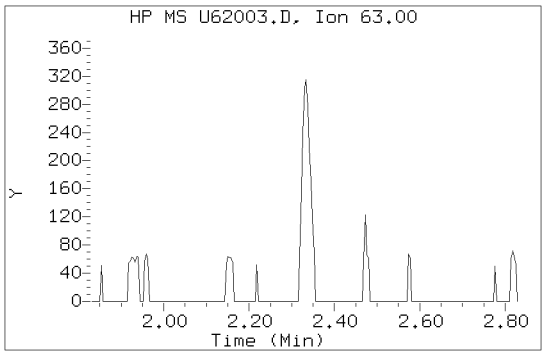
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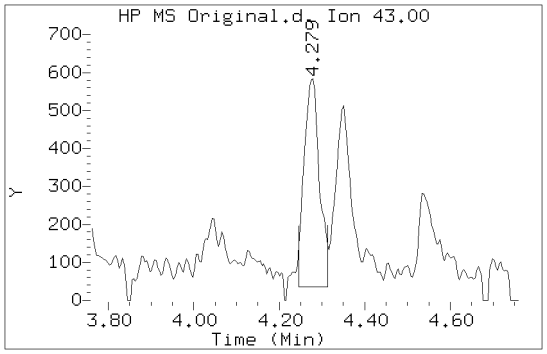
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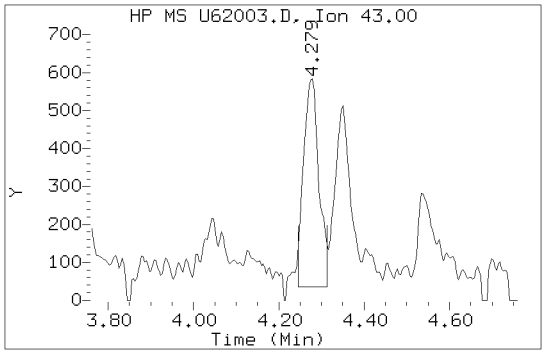
2-Butanone (78-93-3)

Reason Code:

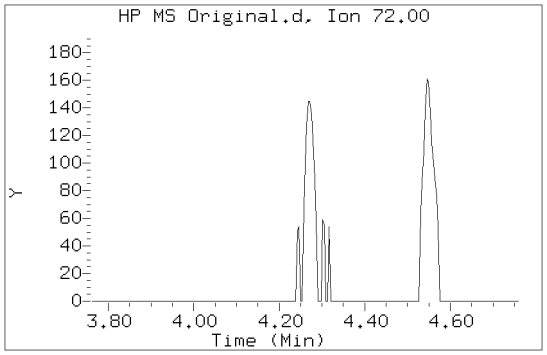
BEFORE
MASS
43
AREA
1392
HEIGHT
548
29-Jun-2024
12:15
s
zaid



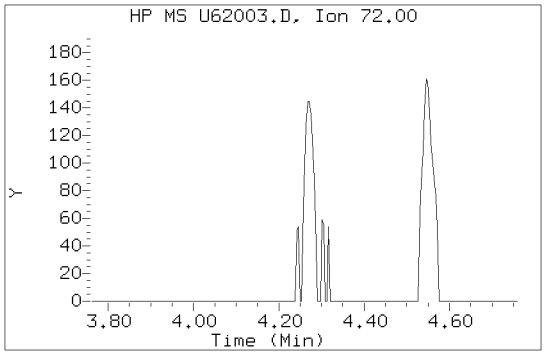
AFTER
MASS
43
AREA
1392
HEIGHT
548
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



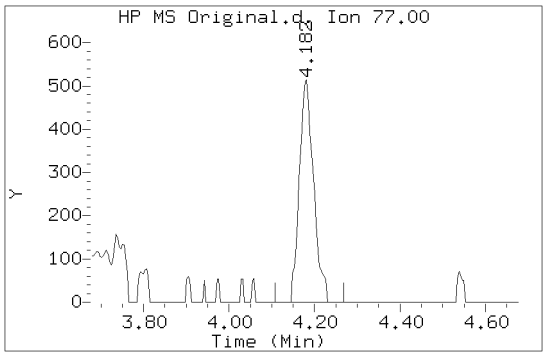
AFTER
MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



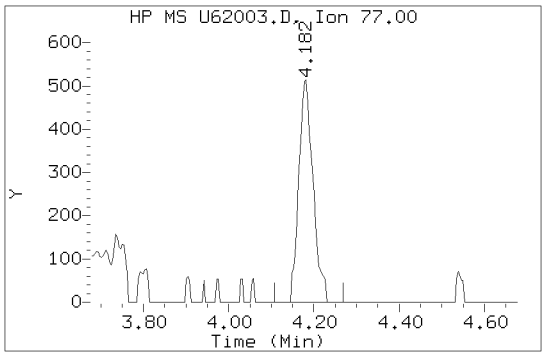
2,2-Dichloropropane (594-20-7)

Reason Code:

BEFORE
MASS
77
AREA
1204
HEIGHT
514
29-Jun-2024
12:15
s
zaid



AFTER
MASS
77
AREA
1204
HEIGHT
514
29-Jun-2024
12:18
s
zaid



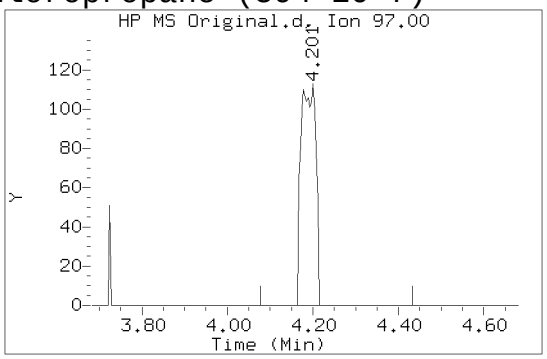
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

2,2-Dichloropropane (594-20-7)

Reason Code:

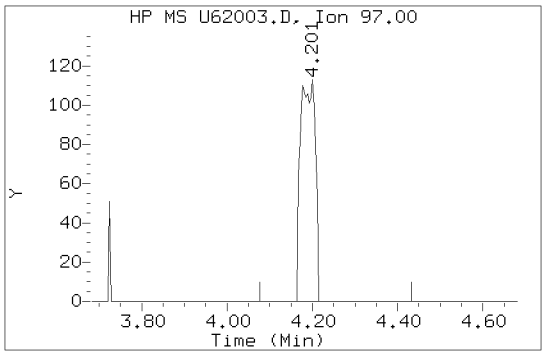
BEFORE

MASS
97
AREA
274
HEIGHT
113
29-Jun-2024
12:15
s
zaid



AFTER

MASS
97
AREA
274
HEIGHT
113
29-Jun-2024
12:18
s
zaid

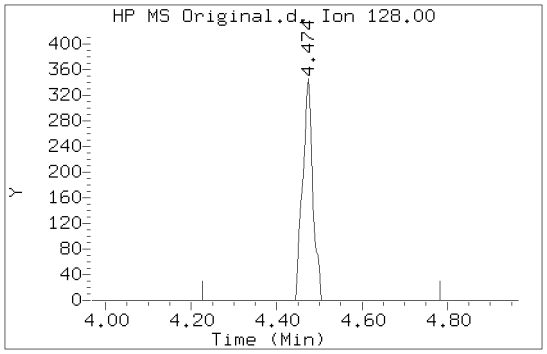


Bromochloromethane (74-97-5)

Reason Code:

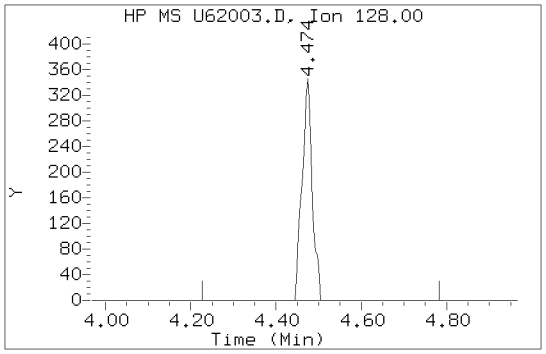
BEFORE

MASS
128
AREA
578
HEIGHT
346
29-Jun-2024
12:15
s
zaid



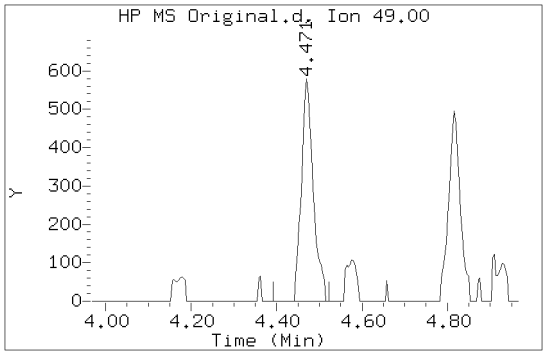
AFTER

MASS
128
AREA
578
HEIGHT
346
29-Jun-2024
12:18
s
zaid



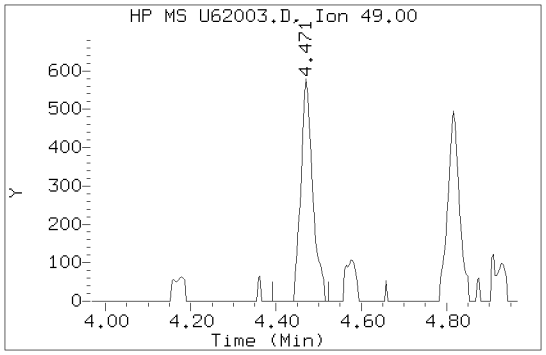
BEFORE

MASS
49
AREA
1131
HEIGHT
579
29-Jun-2024
12:15
s
zaid



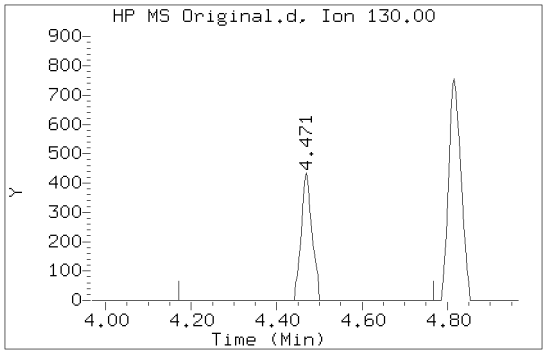
AFTER

MASS
49
AREA
1131
HEIGHT
579
29-Jun-2024
12:18
s
zaid



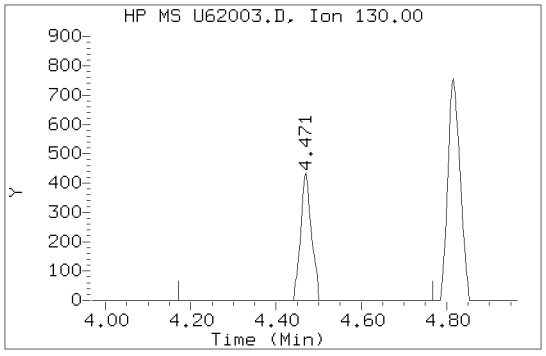
BEFORE

MASS
130
AREA
775
HEIGHT
434
29-Jun-2024
12:15
s
zaid



AFTER

MASS
130
AREA
775
HEIGHT
434
29-Jun-2024
12:18
s
zaid

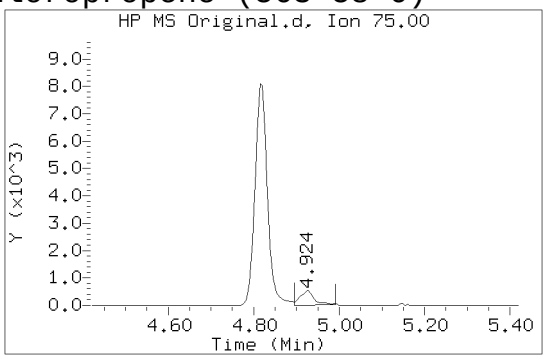


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

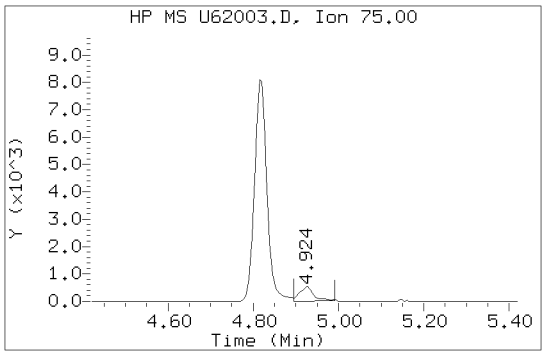
1,1-Dichloropropene (563-58-6)

Reason Code:

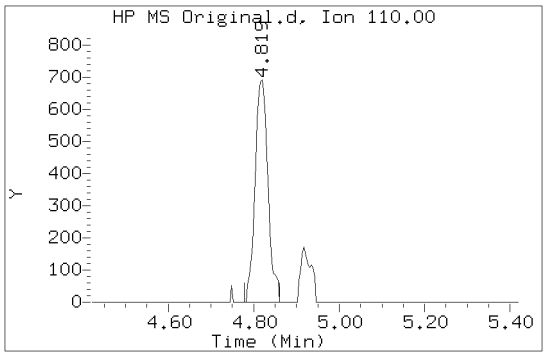
BEFORE
MASS
75
AREA
1295
HEIGHT
533
29-Jun-2024
12:15
s
zaid



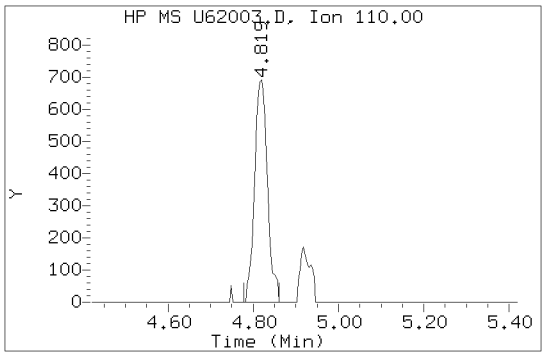
AFTER
MASS
75
AREA
1295
HEIGHT
533
29-Jun-2024
12:18
s
zaid



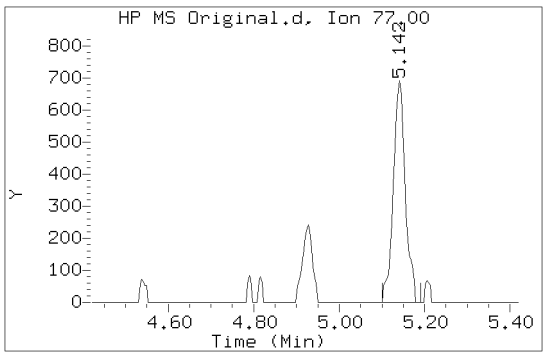
BEFORE
MASS
110
AREA
1447
HEIGHT
691
29-Jun-2024
12:15
s
zaid



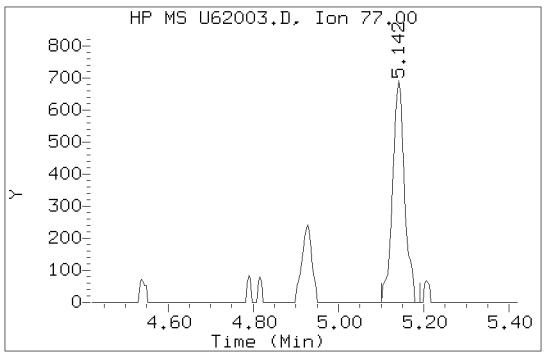
AFTER
MASS
110
AREA
1447
HEIGHT
691
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
77
AREA
1342
HEIGHT
691
29-Jun-2024
12:15
s
zaid



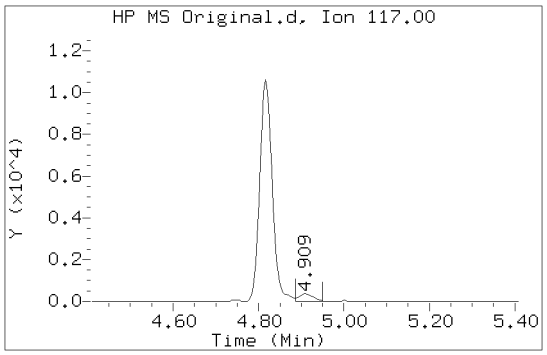
AFTER
MASS
77
AREA
1342
HEIGHT
691
29-Jun-2024
12:18
s
zaid



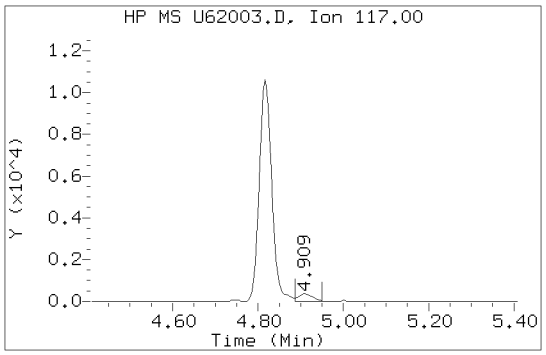
Carbon Tetrachloride (56-23-5)

Reason Code:

BEFORE
MASS
117
AREA
853
HEIGHT
364
29-Jun-2024
12:15
s
zaid



AFTER
MASS
117
AREA
853
HEIGHT
364
29-Jun-2024
12:18
s
zaid



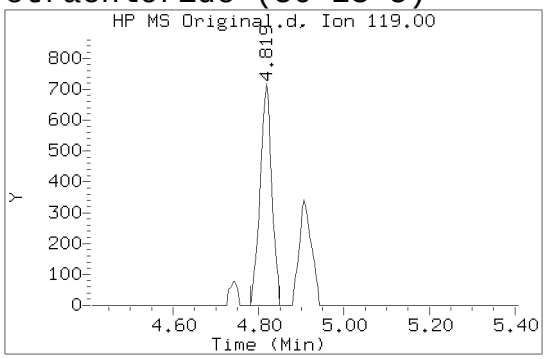
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

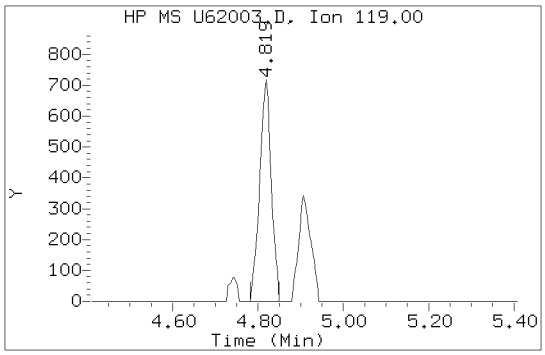
BEFORE

MASS
119
AREA
1353
HEIGHT
718
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1353
HEIGHT
718
29-Jun-2024
12:18
s
zaid

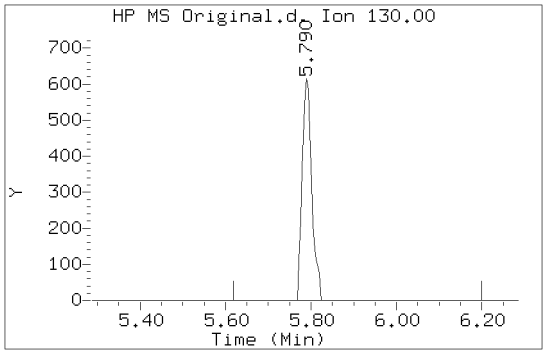


Trichloroethene (79-01-6)

Reason Code:

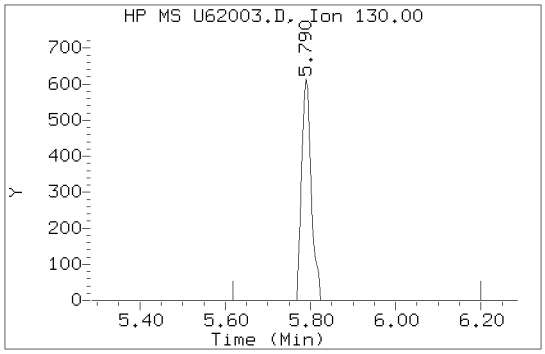
BEFORE

MASS
130
AREA
987
HEIGHT
615
29-Jun-2024
12:15
s
zaid



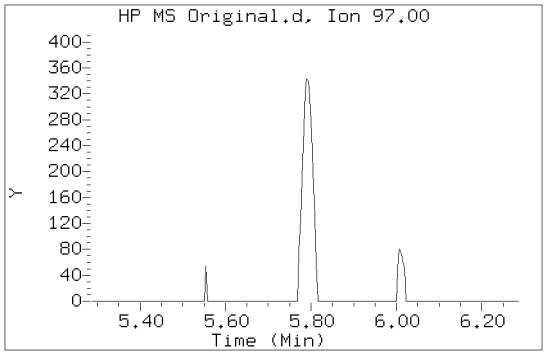
AFTER

MASS
130
AREA
987
HEIGHT
615
29-Jun-2024
12:18
s
zaid



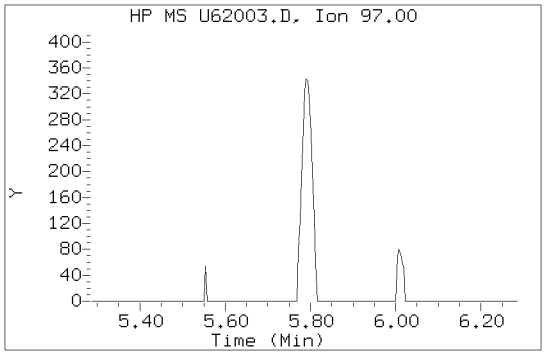
BEFORE

MASS
97
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



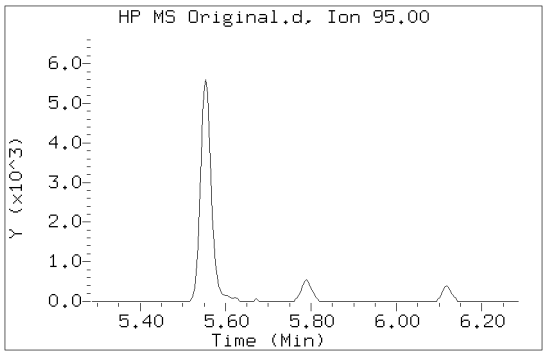
AFTER

MASS
97
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



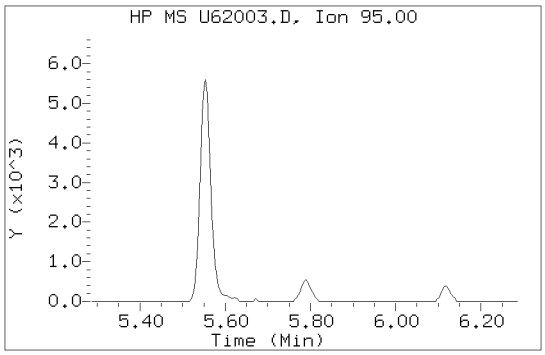
BEFORE

MASS
95
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
95
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



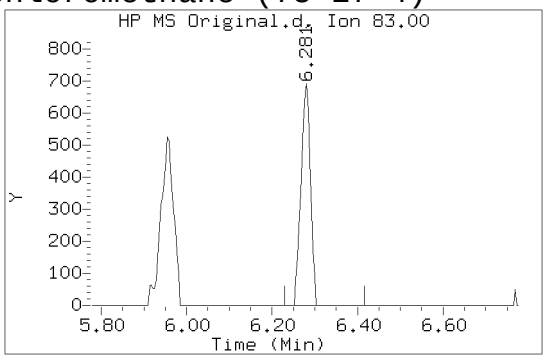
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

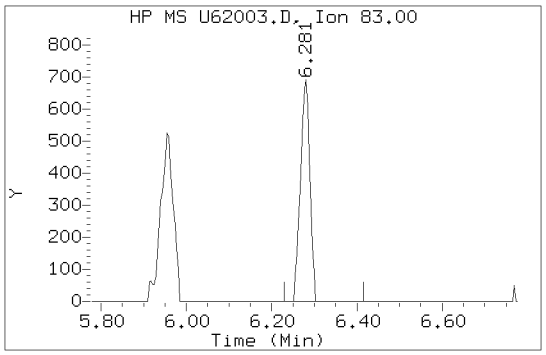
BEFORE

MASS
83
AREA
1081
HEIGHT
691
29-Jun-2024
12:15
s
zaid



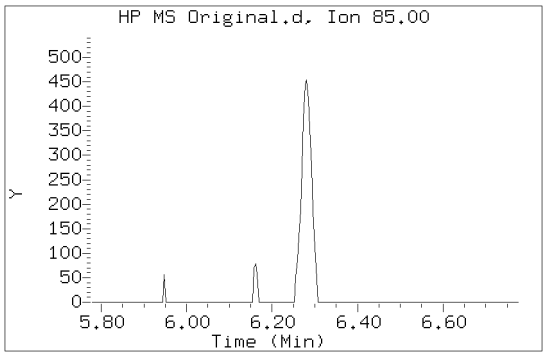
AFTER

MASS
83
AREA
1081
HEIGHT
691
29-Jun-2024
12:18
s
zaid



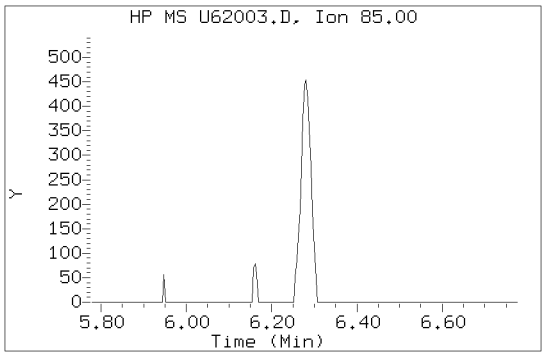
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



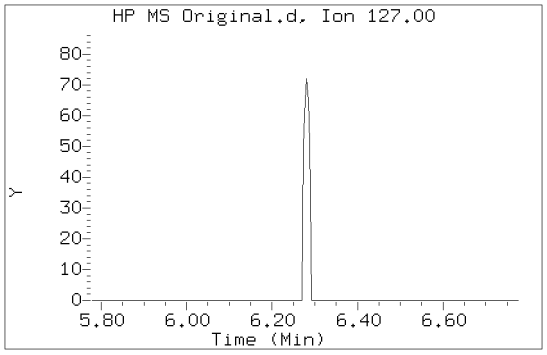
AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



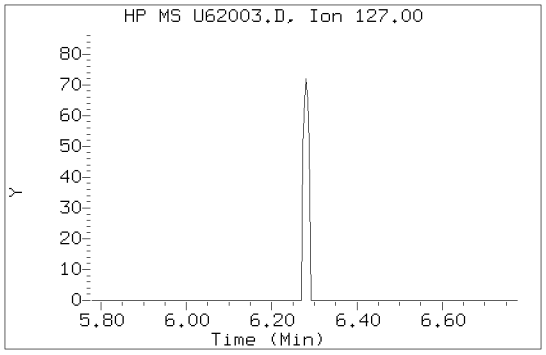
BEFORE

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

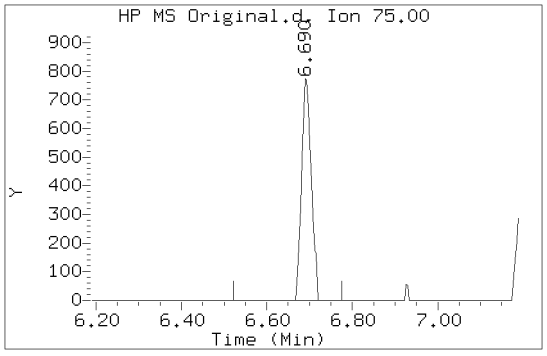


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

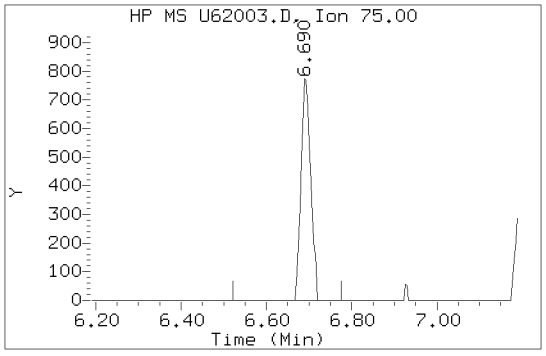
BEFORE

MASS
75
AREA
1255
HEIGHT
774
29-Jun-2024
12:15
s
zaid



AFTER

MASS
75
AREA
1255
HEIGHT
774
29-Jun-2024
12:18
s
zaid

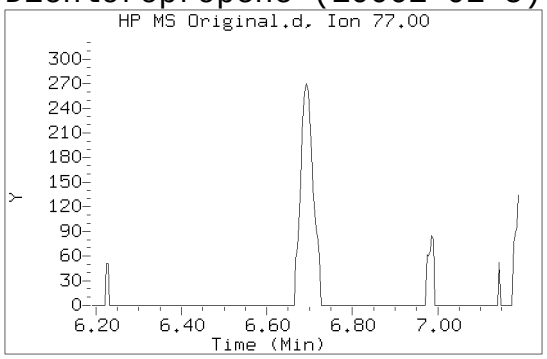


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Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

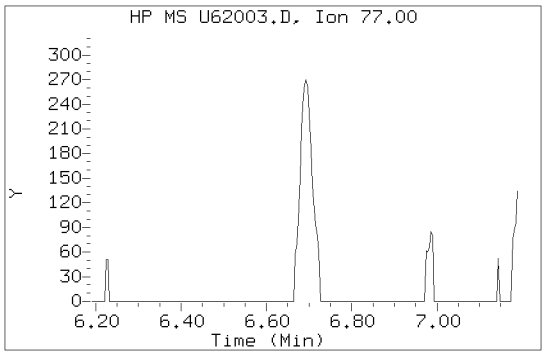
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

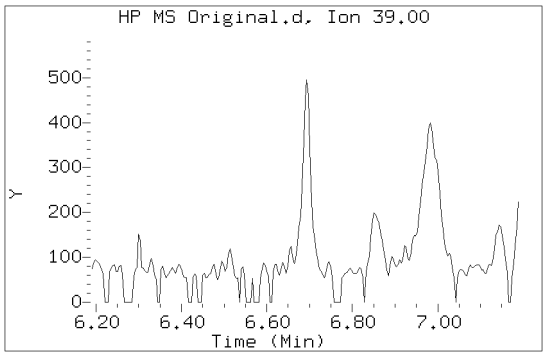
BEFORE
MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



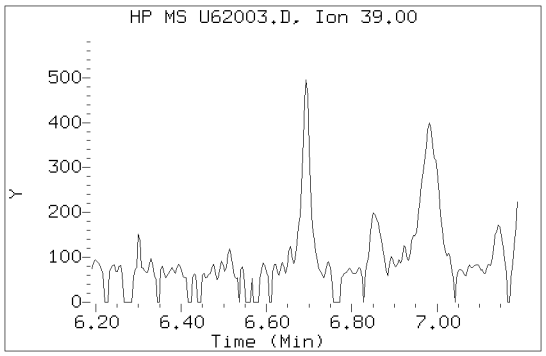
AFTER
MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



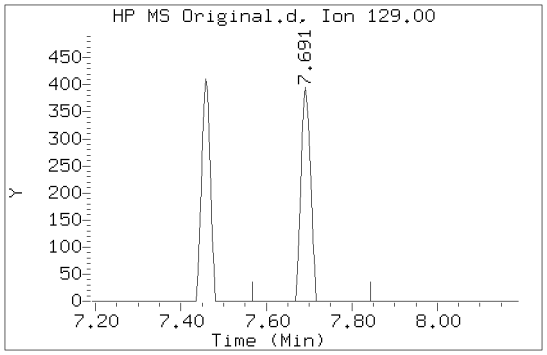
AFTER
MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



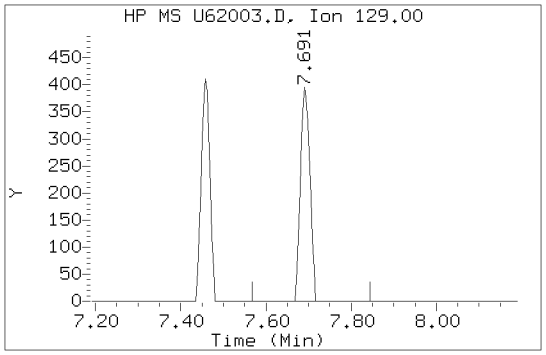
Dibromochloromethane (124-48-1)

Reason Code:

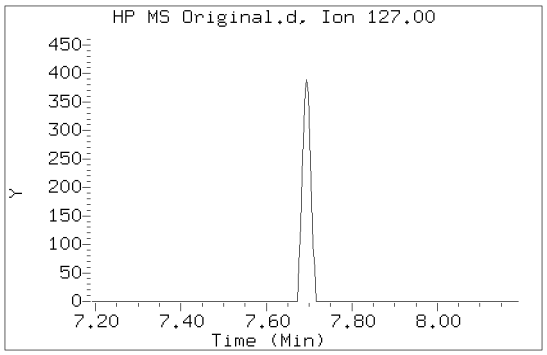
BEFORE
MASS
129
AREA
629
HEIGHT
396
29-Jun-2024
12:15
s
zaid



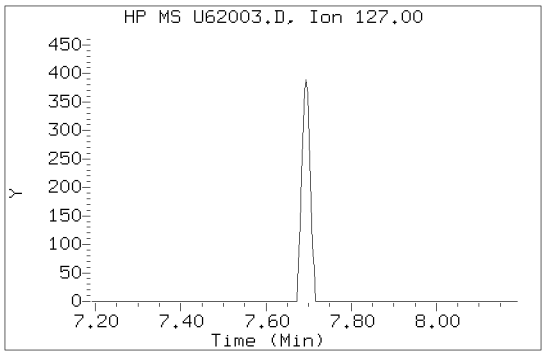
AFTER
MASS
129
AREA
629
HEIGHT
396
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



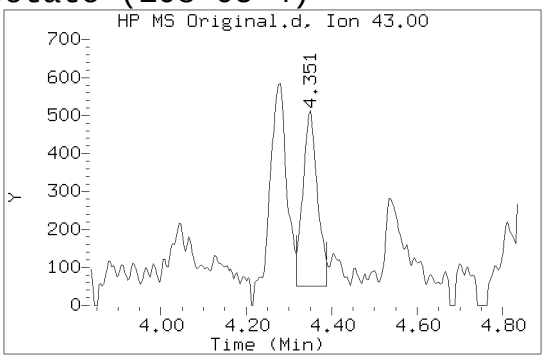
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

Reason Code:

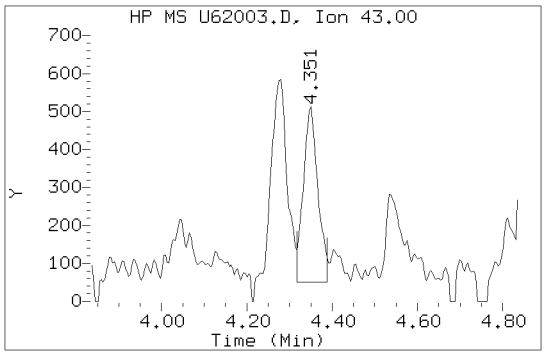
BEFORE

MASS
43
AREA
1114
HEIGHT
462
29-Jun-2024
12:15
s
zaid



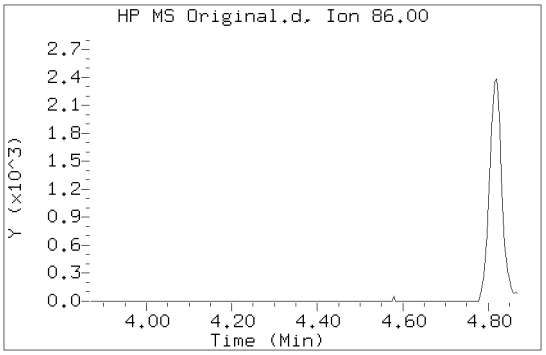
AFTER

MASS
43
AREA
1114
HEIGHT
462
29-Jun-2024
12:18
s
zaid



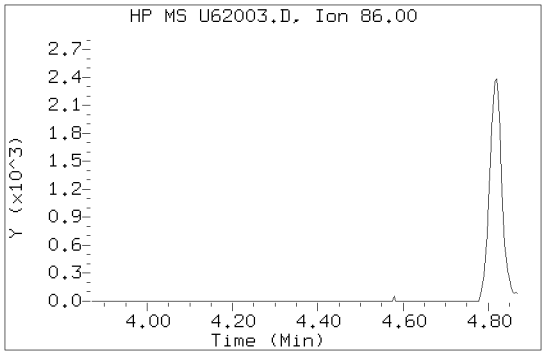
BEFORE

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

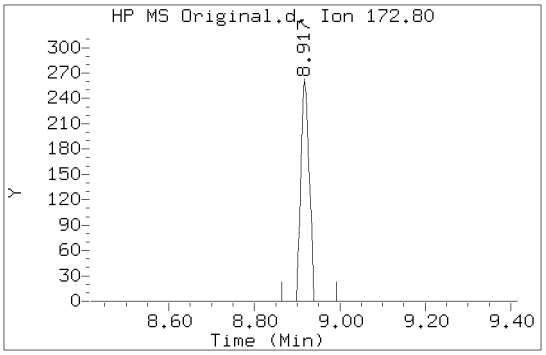


Bromoform (75-25-2)

Reason Code:

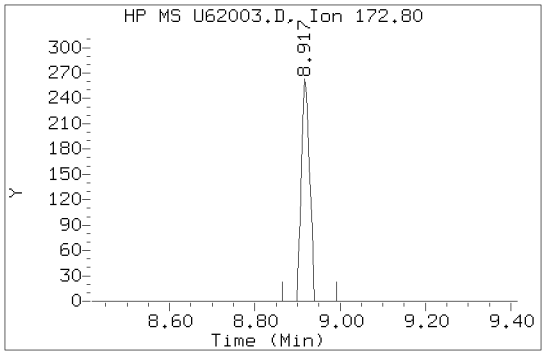
BEFORE

MASS
172.8
AREA
363
HEIGHT
263
29-Jun-2024
12:15
s
zaid



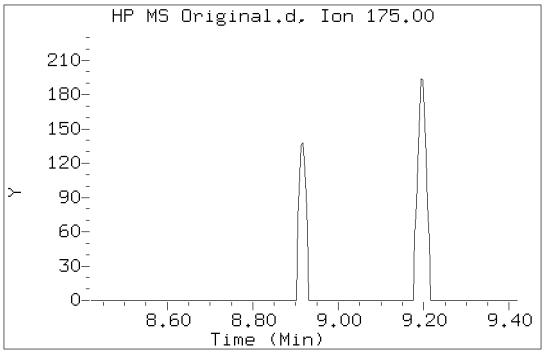
AFTER

MASS
172.8
AREA
363
HEIGHT
263
29-Jun-2024
12:18
s
zaid



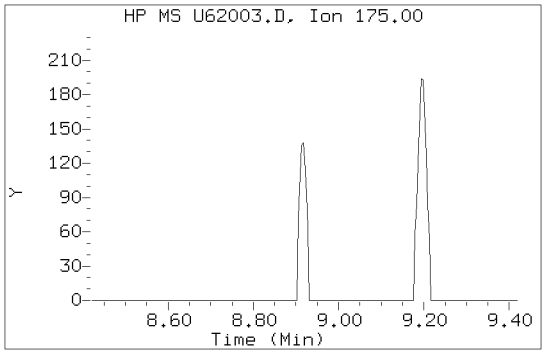
BEFORE

MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



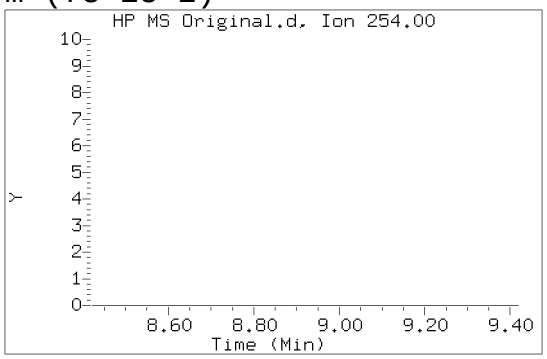
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

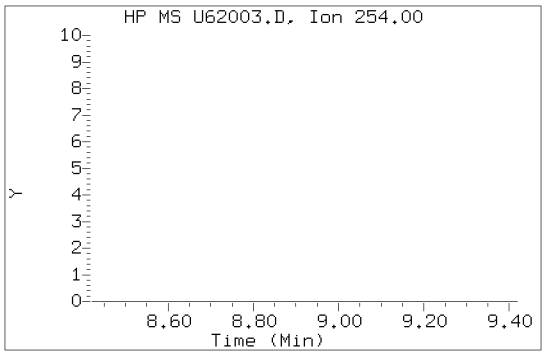
BEFORE

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

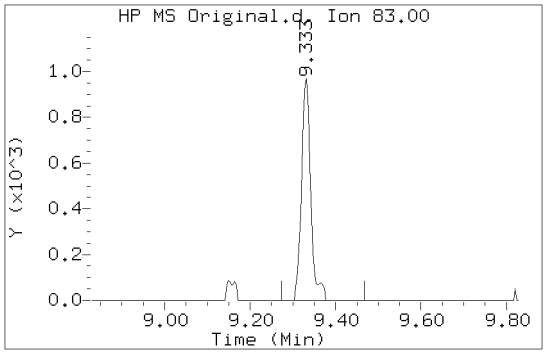


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

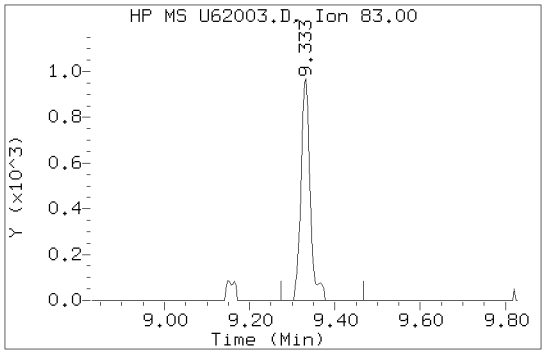
BEFORE

MASS
83
AREA
1485
HEIGHT
969
29-Jun-2024
12:15
s
zaid



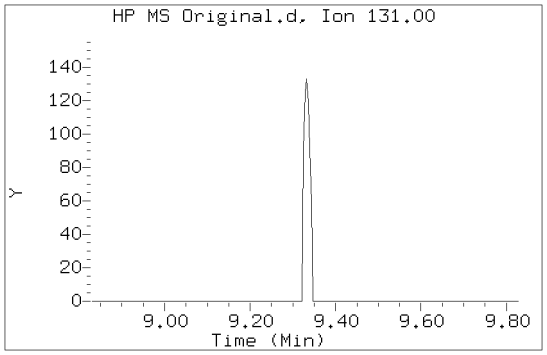
AFTER

MASS
83
AREA
1485
HEIGHT
969
29-Jun-2024
12:18
s
zaid



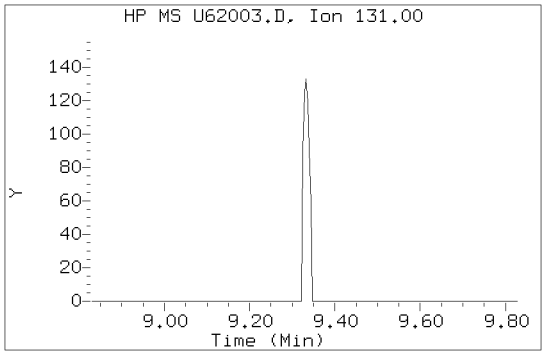
BEFORE

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



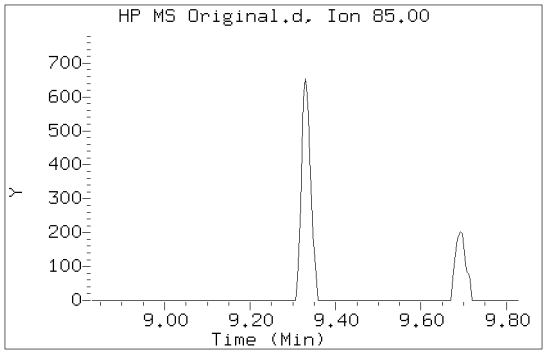
AFTER

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



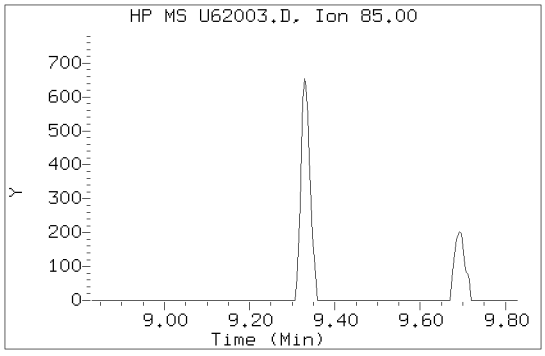
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



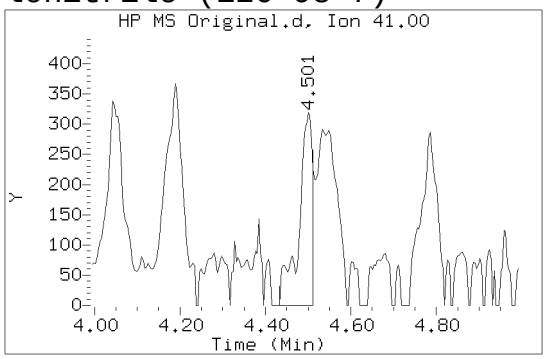
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

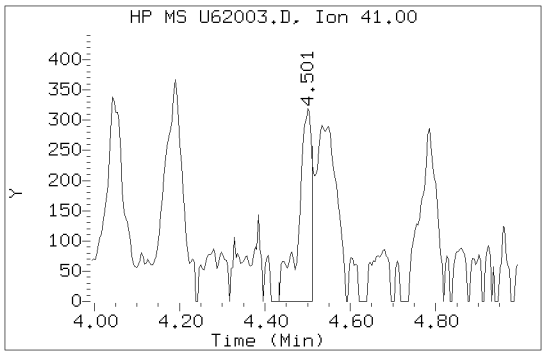
BEFORE

MASS
41
AREA
715
HEIGHT
319
29-Jun-2024
12:15
s
zaid



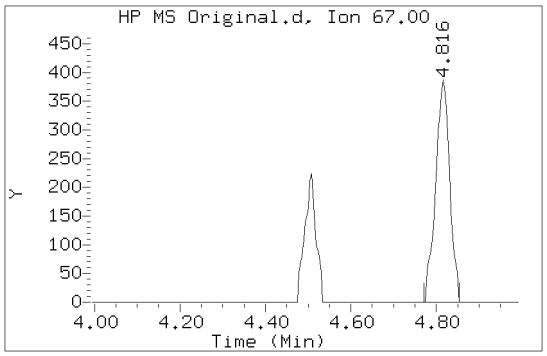
AFTER

MASS
41
AREA
715
HEIGHT
319
29-Jun-2024
12:18
s
zaid



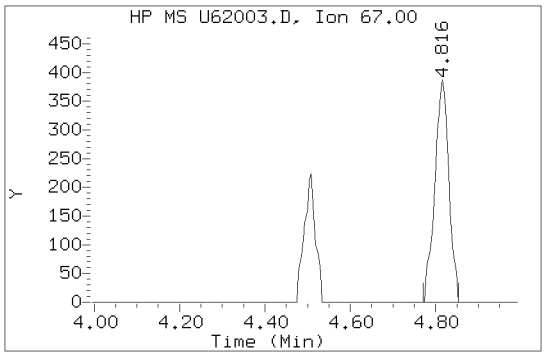
BEFORE

MASS
67
AREA
885
HEIGHT
387
29-Jun-2024
12:15
s
zaid



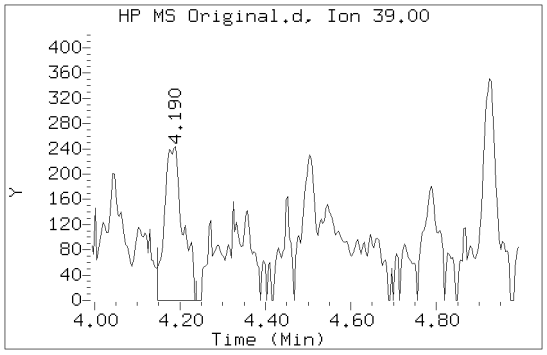
AFTER

MASS
67
AREA
885
HEIGHT
387
29-Jun-2024
12:18
s
zaid



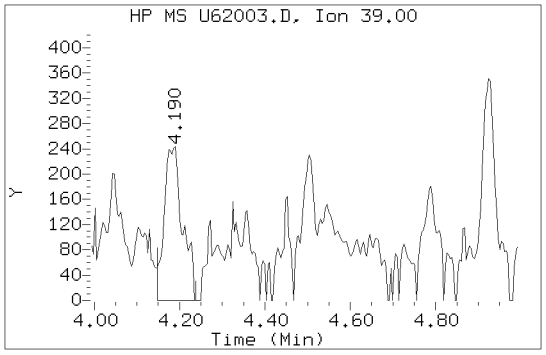
BEFORE

MASS
39
AREA
729
HEIGHT
244
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
729
HEIGHT
244
29-Jun-2024
12:18
s
zaid

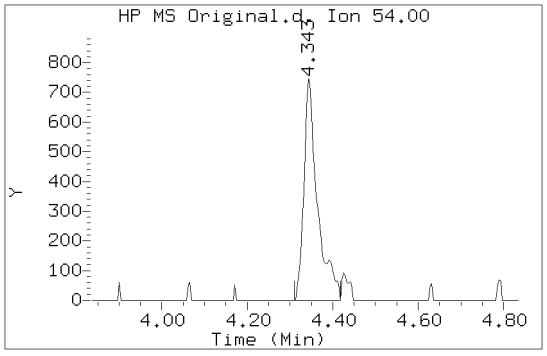


Propionitrile (107-12-0)

Reason Code:

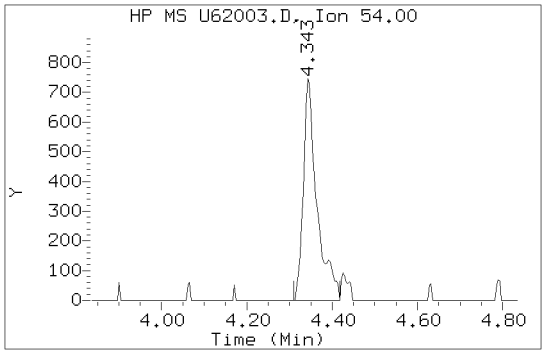
BEFORE

MASS
54
AREA
1664
HEIGHT
746
29-Jun-2024
12:15
s
zaid



AFTER

MASS
54
AREA
1664
HEIGHT
746
29-Jun-2024
12:18
s
zaid



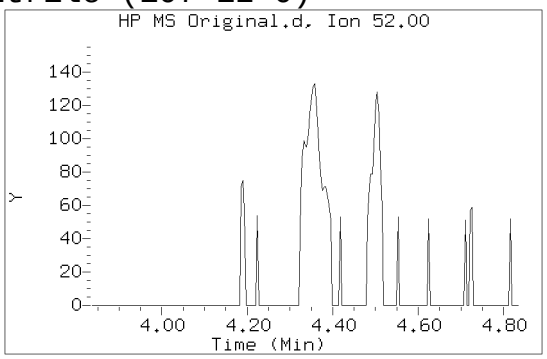
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

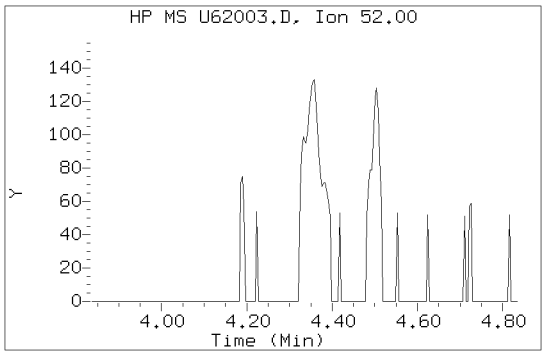
BEFORE

MASS
52
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



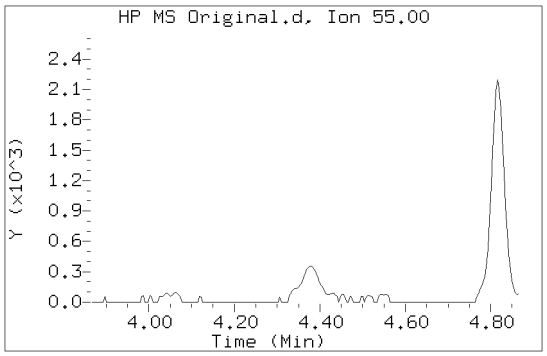
AFTER

MASS
52
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



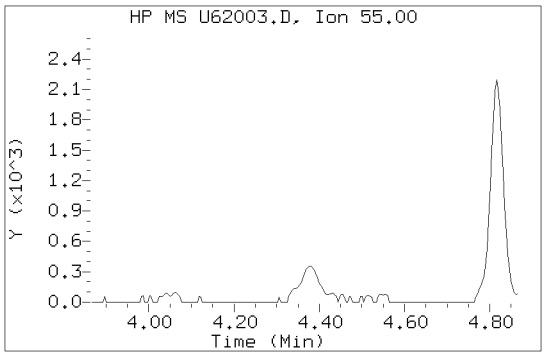
BEFORE

MASS
55
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

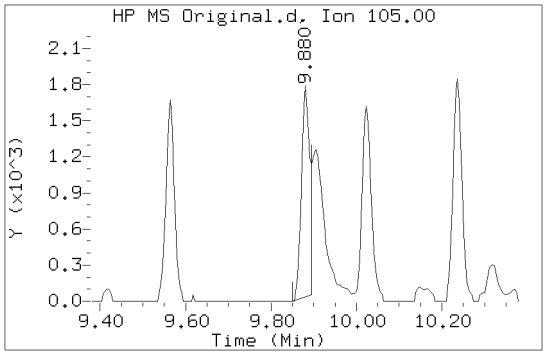


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

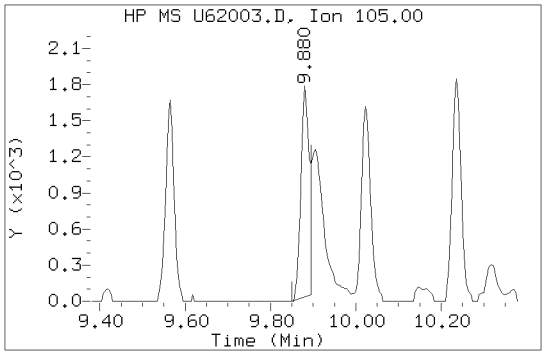
BEFORE

MASS
105
AREA
2487
HEIGHT
1755
29-Jun-2024
12:15
s
zaid



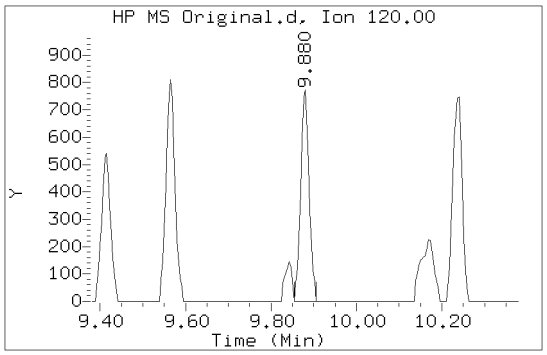
AFTER

MASS
105
AREA
2487
HEIGHT
1755
29-Jun-2024
12:18
s
zaid



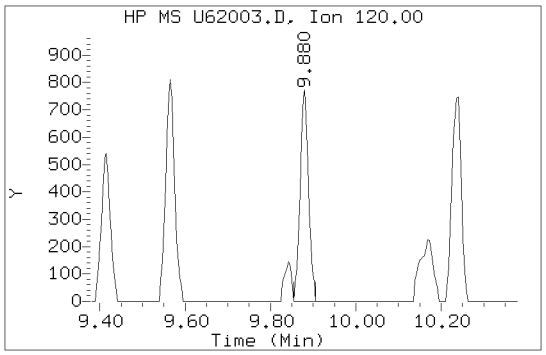
BEFORE

MASS
120
AREA
1086
HEIGHT
773
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
1086
HEIGHT
773
29-Jun-2024
12:18
s
zaid

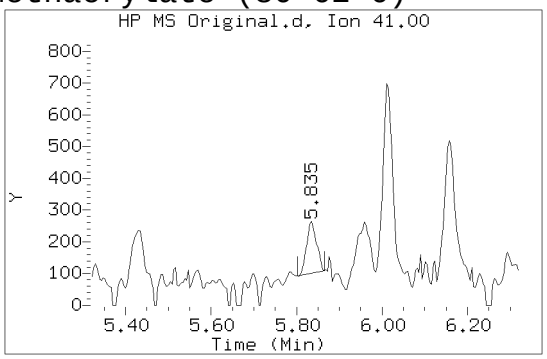


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

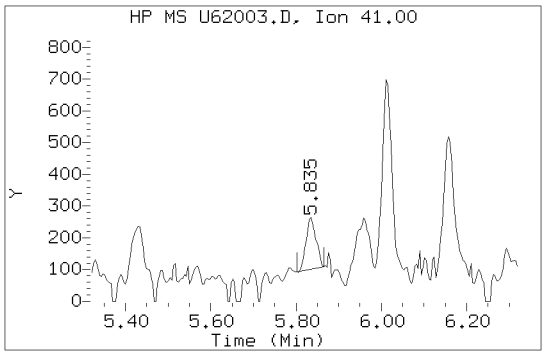
Methyl Methacrylate (80-62-6)

Reason Code:

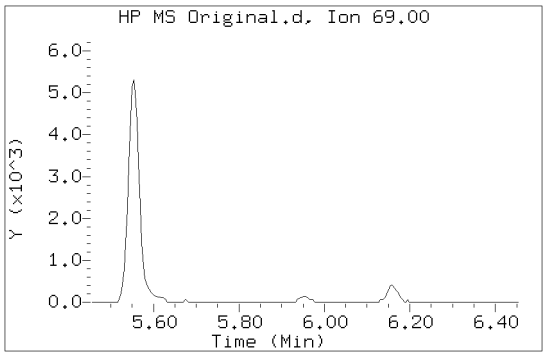
BEFORE
MASS
41
AREA
269
HEIGHT
164
29-Jun-2024
12:15
s
zaid



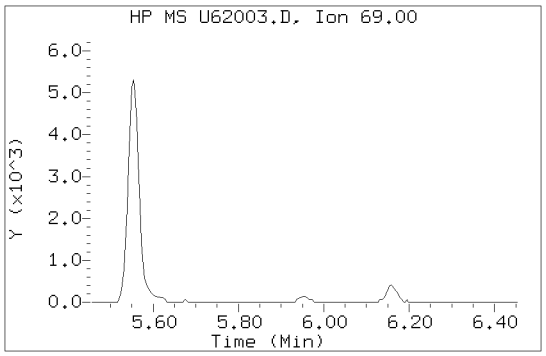
AFTER
MASS
41
AREA
269
HEIGHT
164
29-Jun-2024
12:18
s
zaid



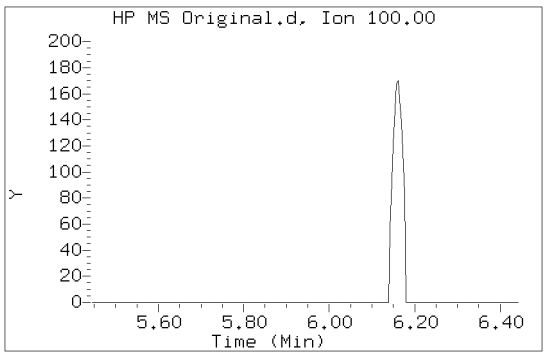
BEFORE
MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



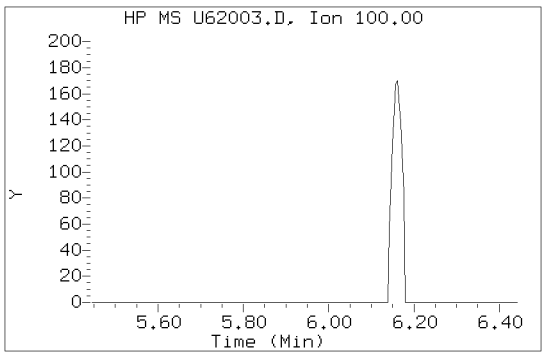
AFTER
MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



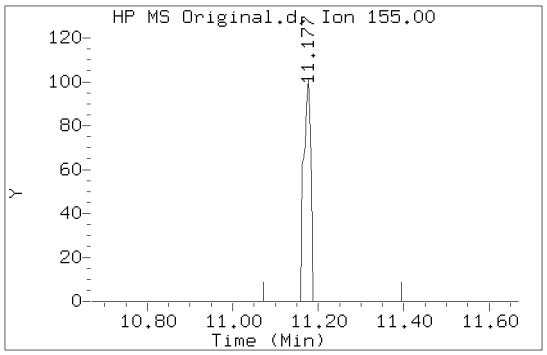
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MASS
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HEIGHT
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29-Jun-2024
12:18
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zaid



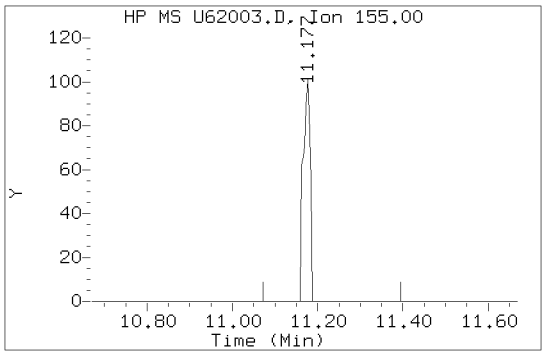
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

BEFORE
MASS
155
AREA
119
HEIGHT
101
29-Jun-2024
12:15
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zaid



AFTER
MASS
155
AREA
119
HEIGHT
101
29-Jun-2024
12:18
s
zaid

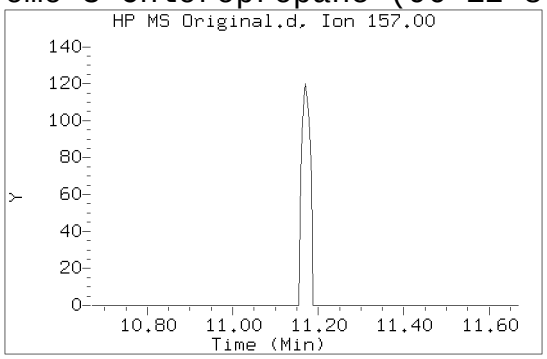


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

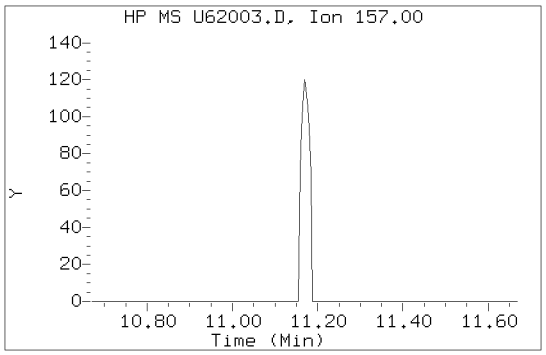
1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

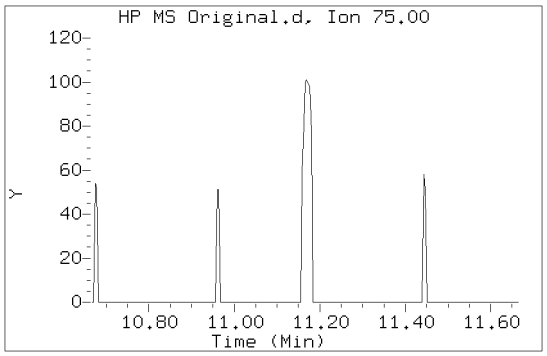
BEFORE
MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



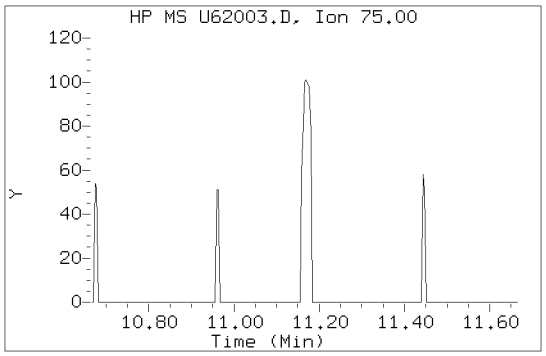
AFTER
MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:18
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zaid



BEFORE
MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



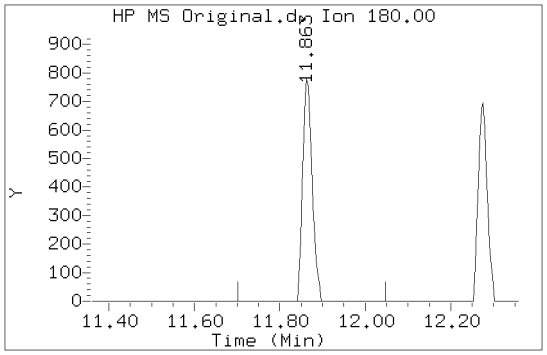
AFTER
MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



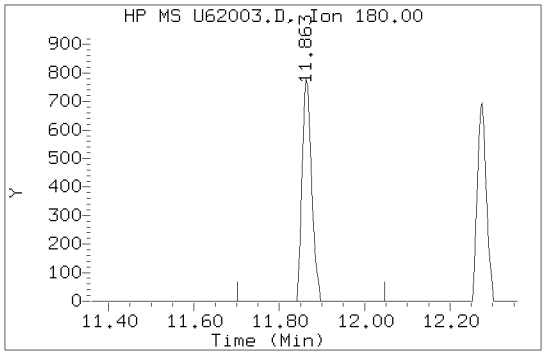
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

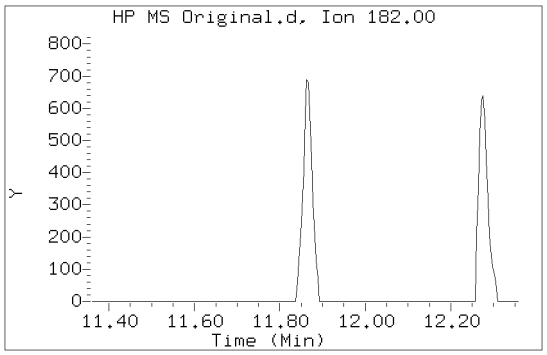
BEFORE
MASS
180
AREA
1239
HEIGHT
779
29-Jun-2024
12:15
s
zaid



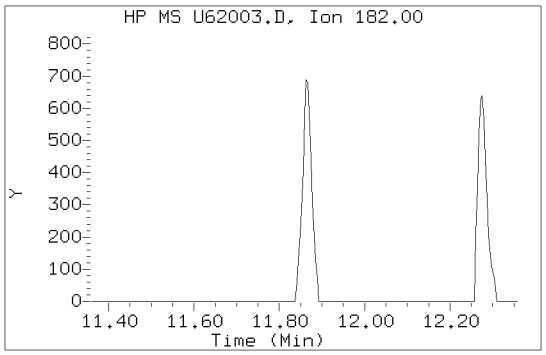
AFTER
MASS
180
AREA
1239
HEIGHT
779
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



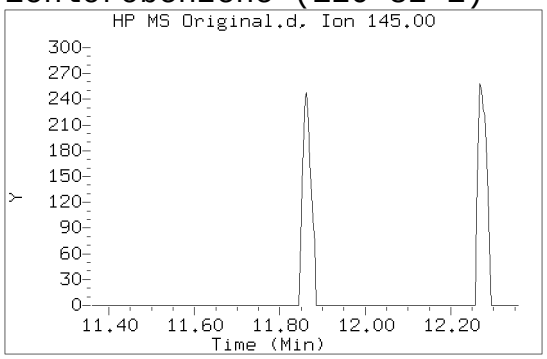
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

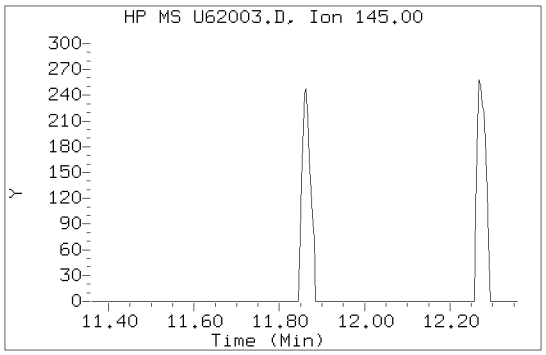
BEFORE

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

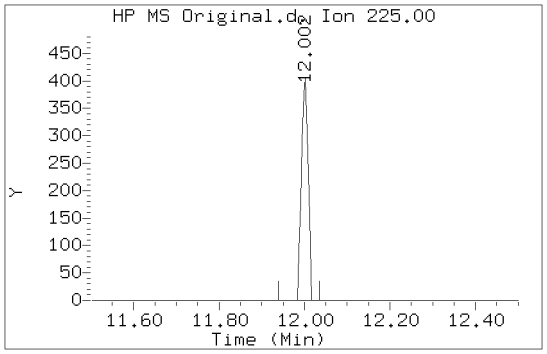


Hexachlorobutadiene (87-68-3)

Reason Code:

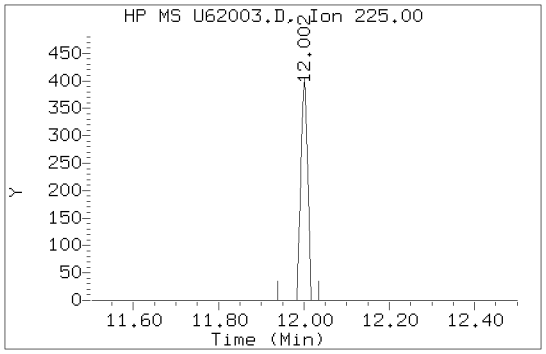
BEFORE

MASS
225
AREA
463
HEIGHT
404
29-Jun-2024
12:15
s
zaid



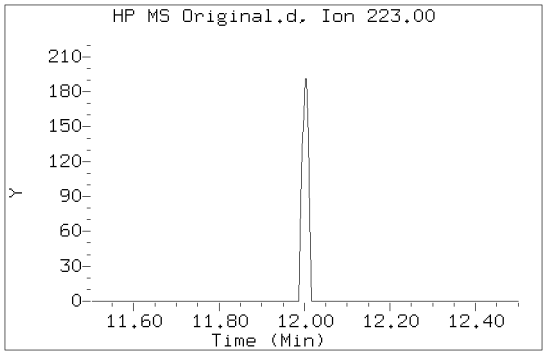
AFTER

MASS
225
AREA
463
HEIGHT
404
29-Jun-2024
12:18
s
zaid



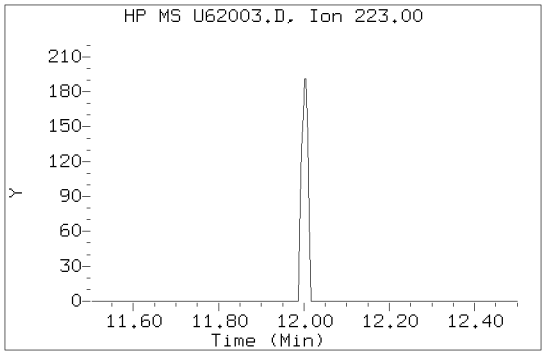
BEFORE

MASS
223
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



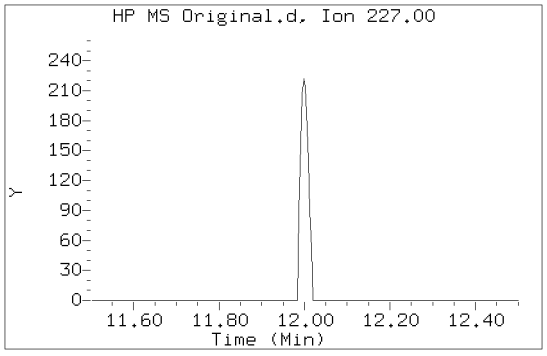
AFTER

MASS
223
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



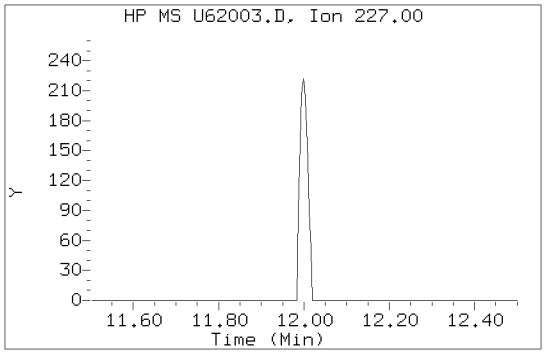
BEFORE

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



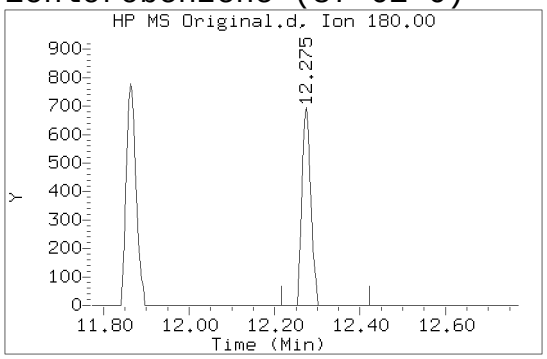
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

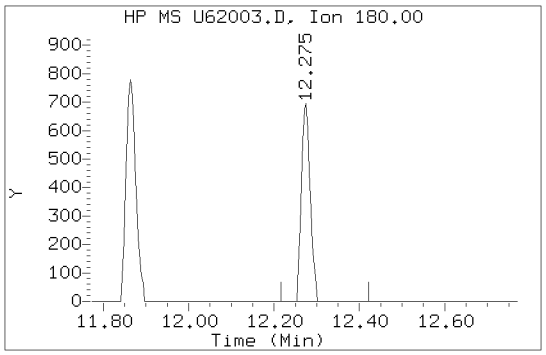
BEFORE

MASS
180
AREA
1018
HEIGHT
697
29-Jun-2024
12:15
s
zaid



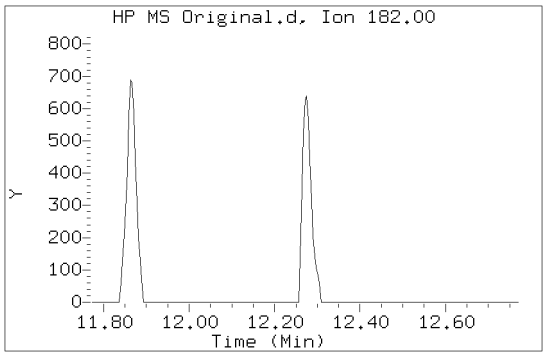
AFTER

MASS
180
AREA
1018
HEIGHT
697
29-Jun-2024
12:18
s
zaid



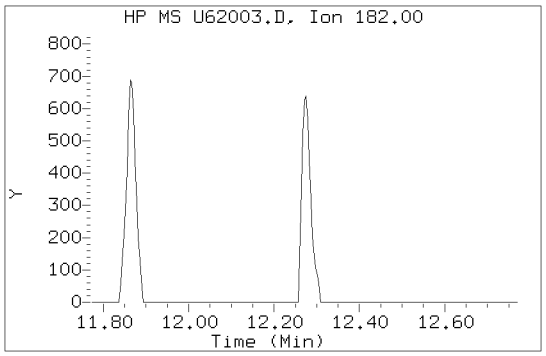
BEFORE

MASS
182
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



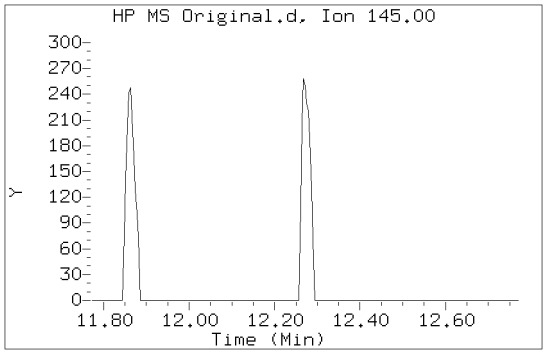
AFTER

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:18
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zaid



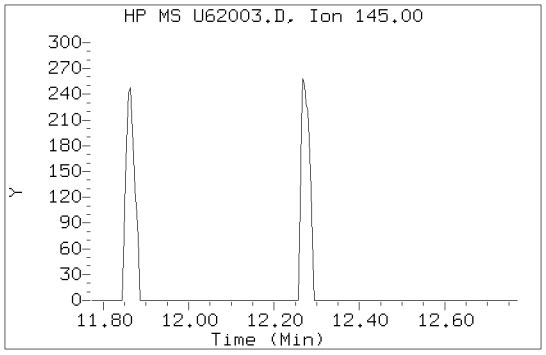
BEFORE

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145
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HEIGHT
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29-Jun-2024
12:15
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zaid



AFTER

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

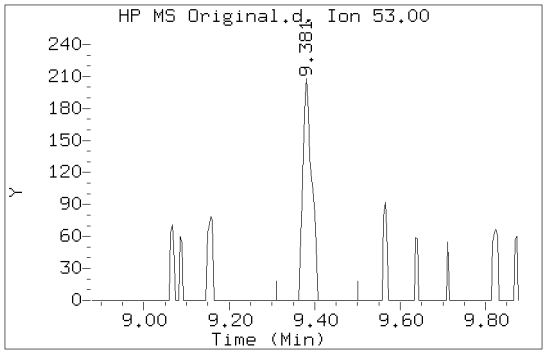


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

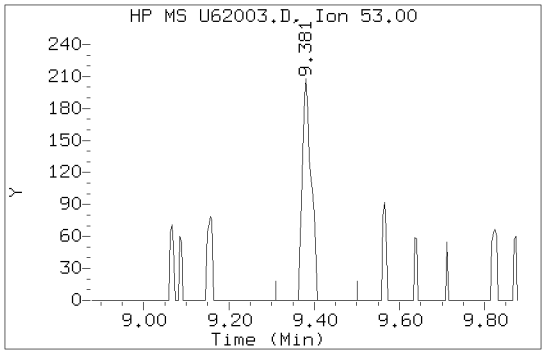
BEFORE

MASS
53
AREA
303
HEIGHT
208
29-Jun-2024
12:15
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zaid



AFTER

MASS
53
AREA
303
HEIGHT
208
29-Jun-2024
12:18
s
zaid



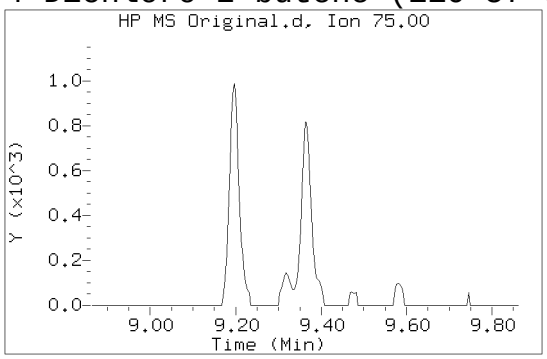
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

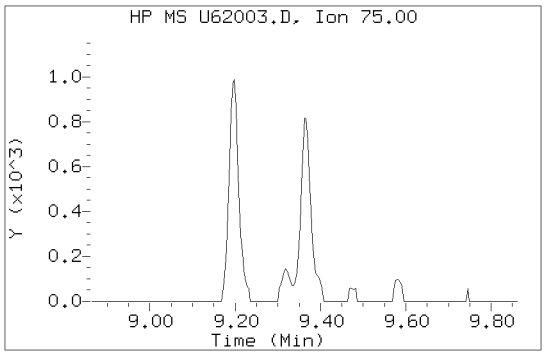
BEFORE

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

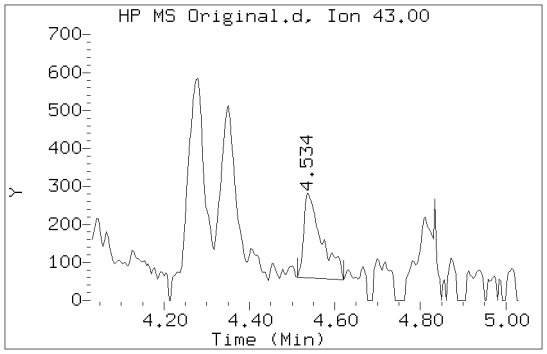


Ethyl Acetate (141-78-6)

Reason Code:

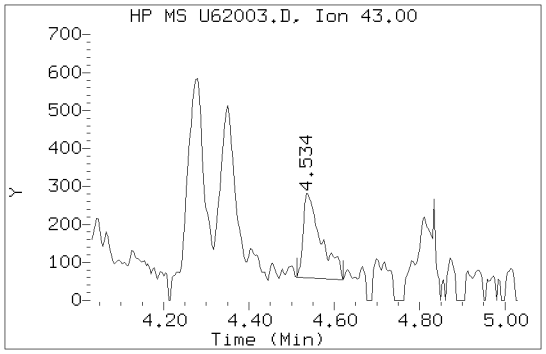
BEFORE

MASS
43
AREA
659
HEIGHT
223
29-Jun-2024
12:15
s
zaid



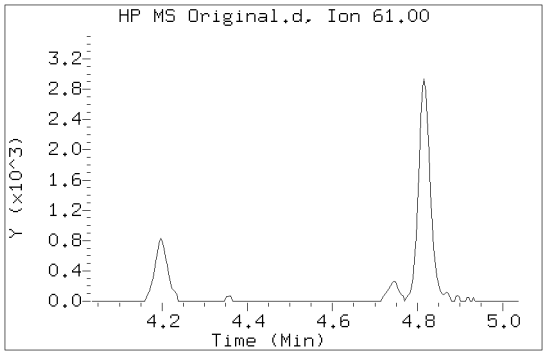
AFTER

MASS
43
AREA
659
HEIGHT
223
29-Jun-2024
12:18
s
zaid



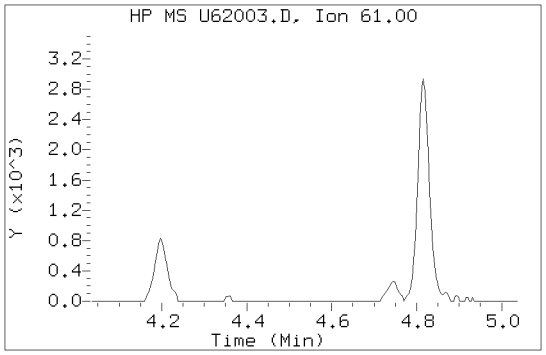
BEFORE

MASS
61
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



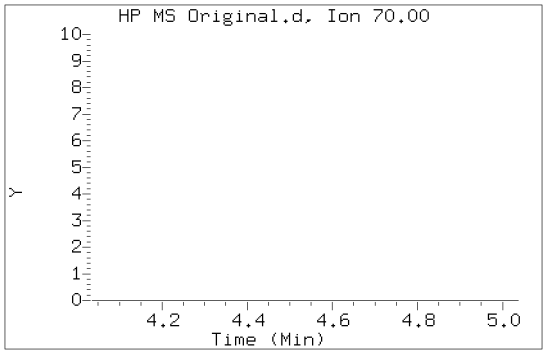
AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



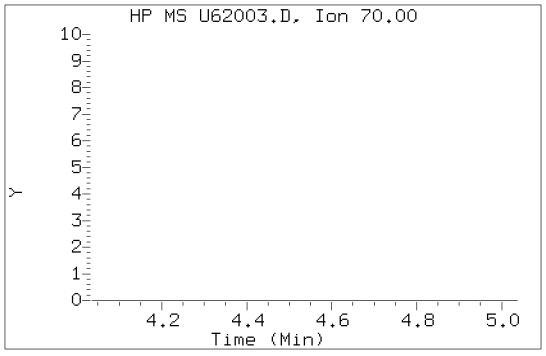
BEFORE

MASS
70
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



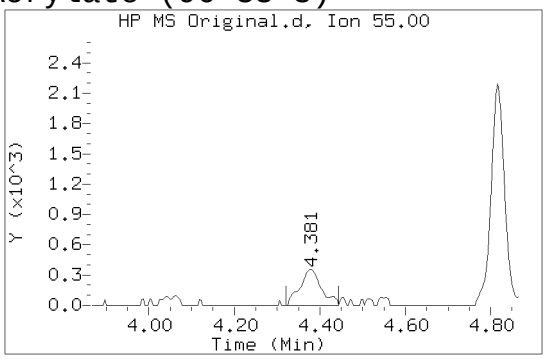
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

Reason Code:

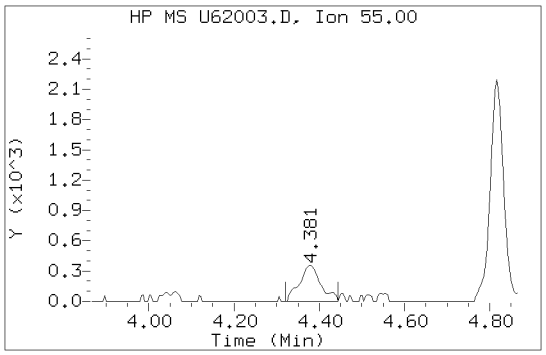
BEFORE

MASS
55
AREA
1242
HEIGHT
358
29-Jun-2024
12:15
s
zaid



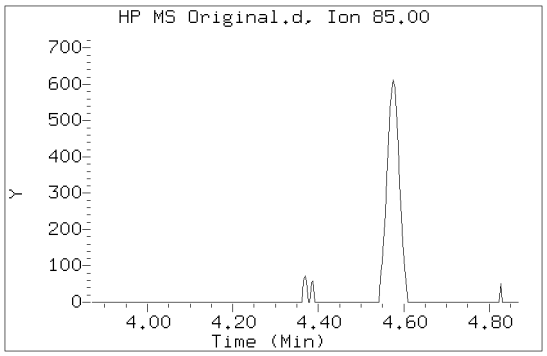
AFTER

MASS
55
AREA
1242
HEIGHT
358
29-Jun-2024
12:18
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zaid



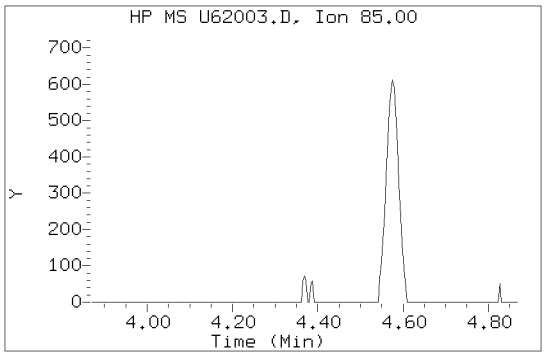
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

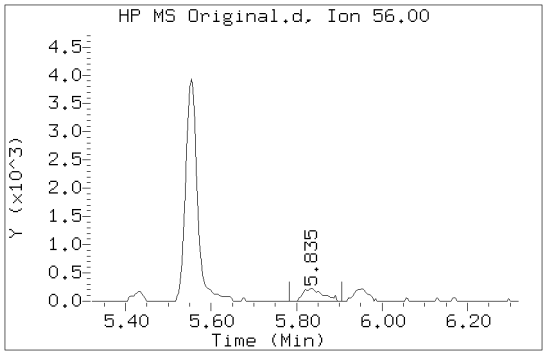


n-Butanol (71-36-3)

Reason Code:

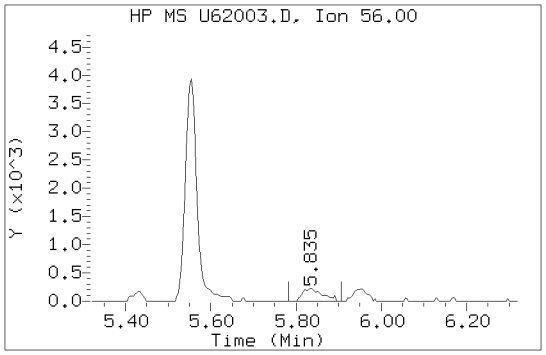
BEFORE

MASS
56
AREA
741
HEIGHT
233
29-Jun-2024
12:15
s
zaid



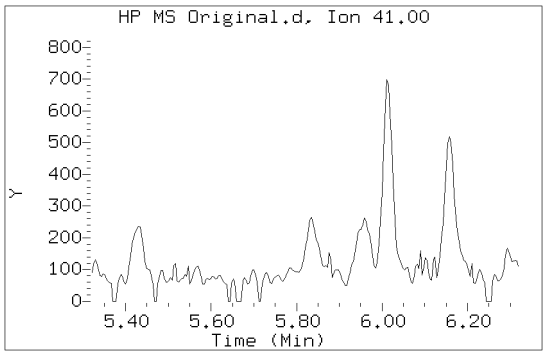
AFTER

MASS
56
AREA
741
HEIGHT
233
29-Jun-2024
12:18
s
zaid



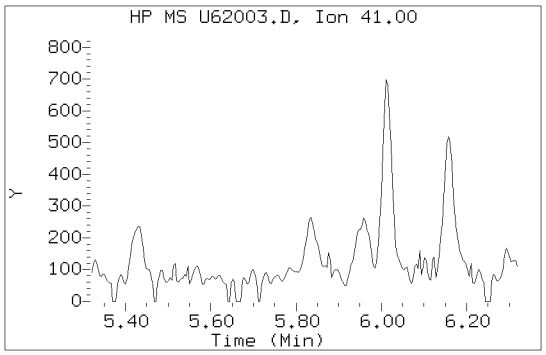
BEFORE

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



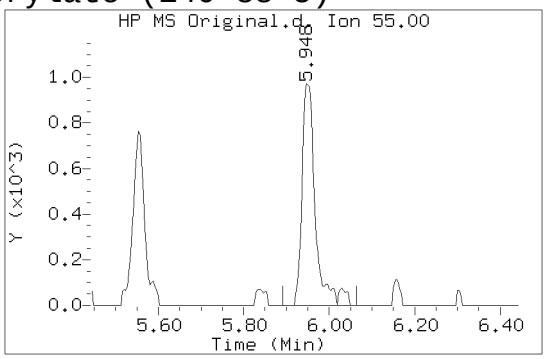
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

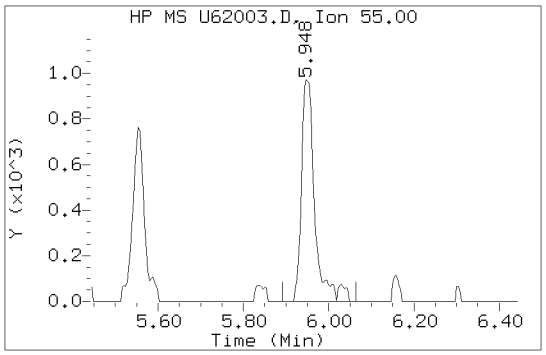
BEFORE

MASS
55
AREA
2148
HEIGHT
972
29-Jun-2024
12:15
s
zaid



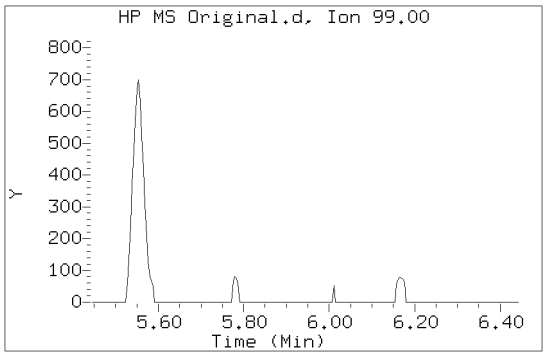
AFTER

MASS
55
AREA
2148
HEIGHT
972
29-Jun-2024
12:18
s
zaid



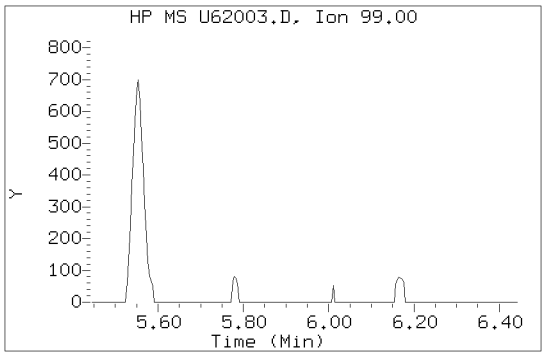
BEFORE

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

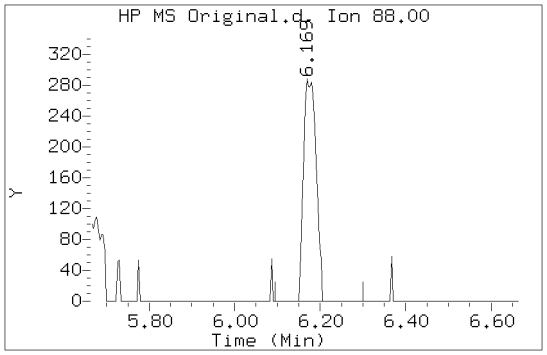


1,4-Dioxane ()

Reason Code:

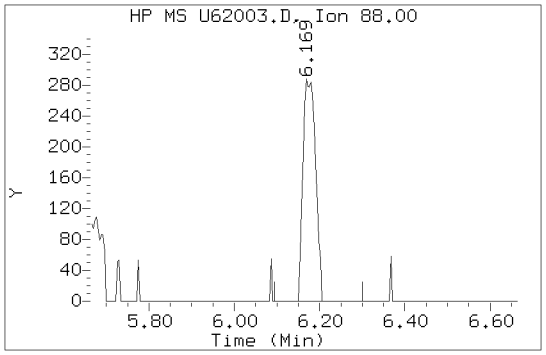
BEFORE

MASS
88
AREA
604
HEIGHT
288
29-Jun-2024
12:15
s
zaid



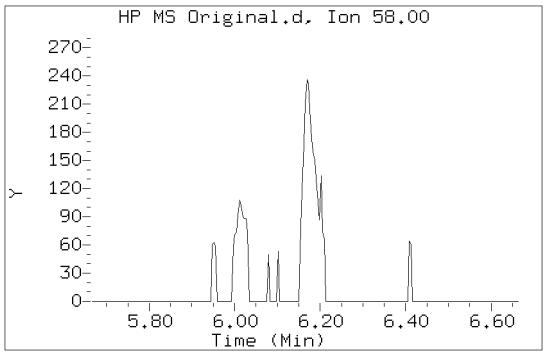
AFTER

MASS
88
AREA
604
HEIGHT
288
29-Jun-2024
12:18
s
zaid



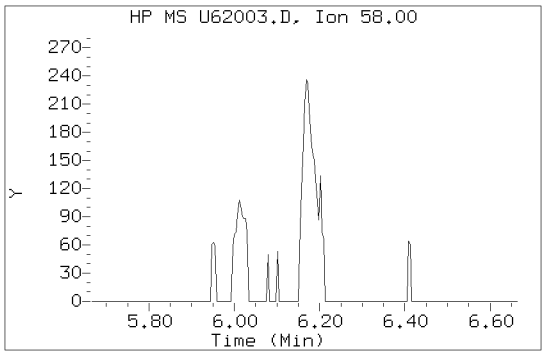
BEFORE

MASS
58
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

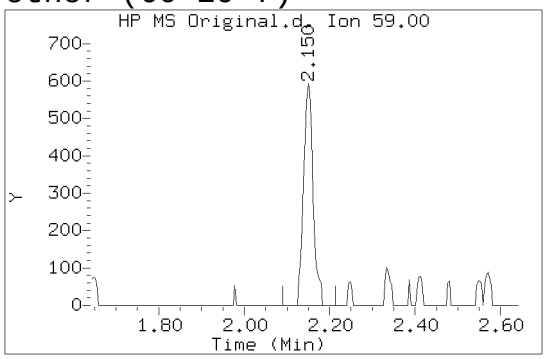


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

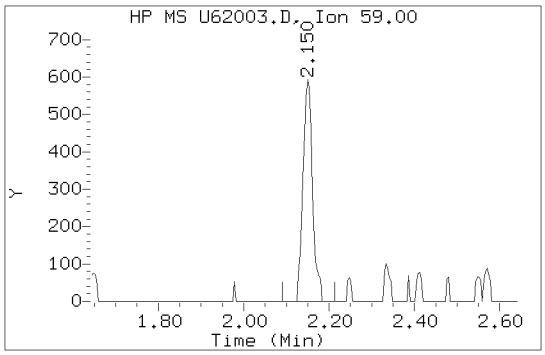
Diethyl ether (60-29-7)

Reason Code:

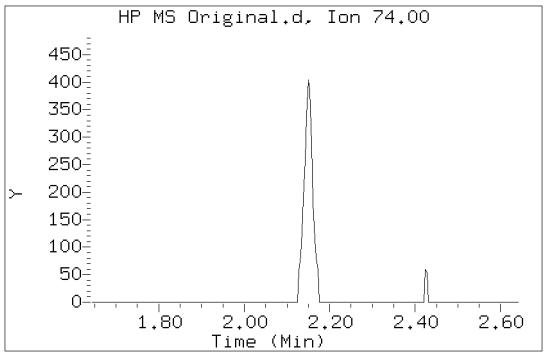
BEFORE
MASS
59
AREA
928
HEIGHT
593
29-Jun-2024
12:15
s
zaid



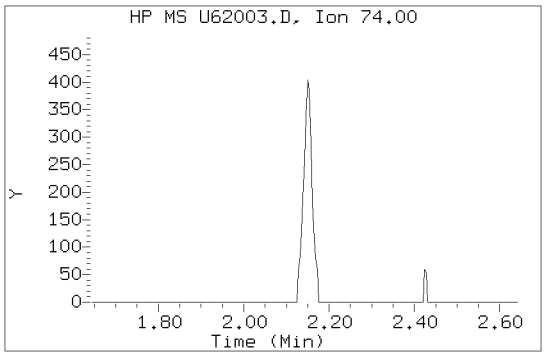
AFTER
MASS
59
AREA
928
HEIGHT
593
29-Jun-2024
12:18
s
zaid



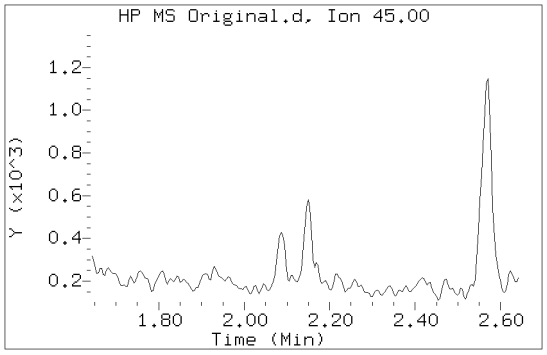
BEFORE
MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



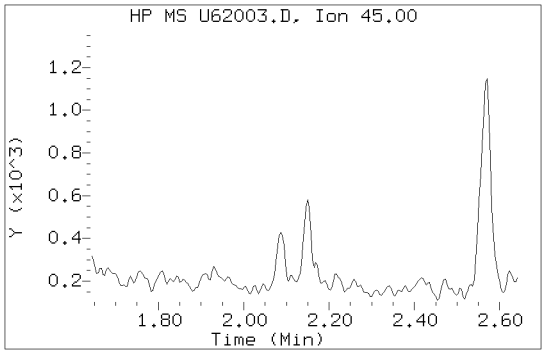
AFTER
MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



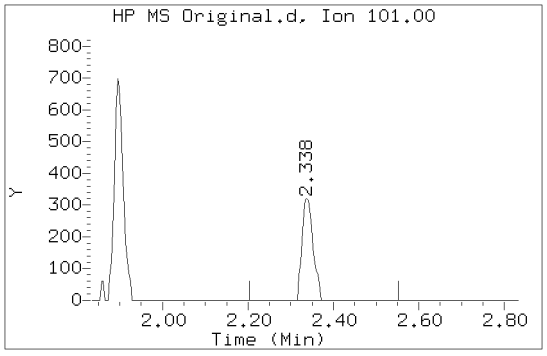
AFTER
MASS
45
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



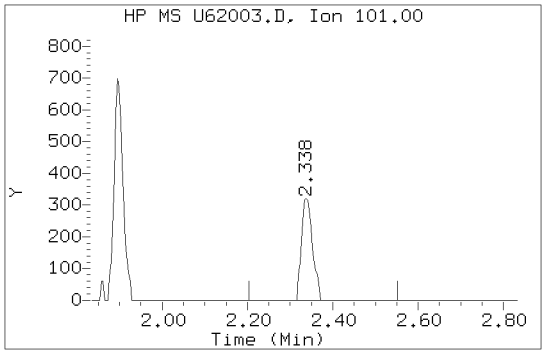
Freon TF (76-13-1)

Reason Code:

BEFORE
MASS
101
AREA
592
HEIGHT
320
29-Jun-2024
12:15
s
zaid



AFTER
MASS
101
AREA
592
HEIGHT
320
29-Jun-2024
12:18
s
zaid



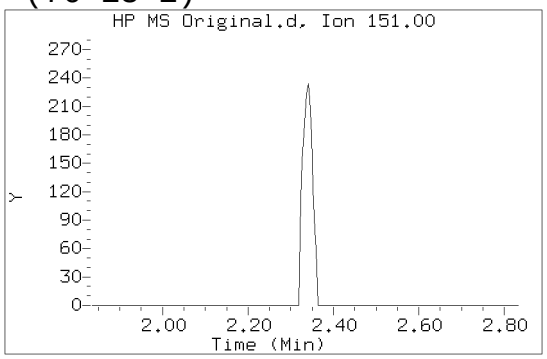
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

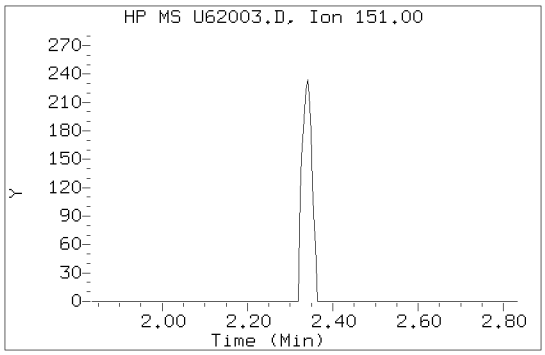
BEFORE

MASS
151
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
151
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

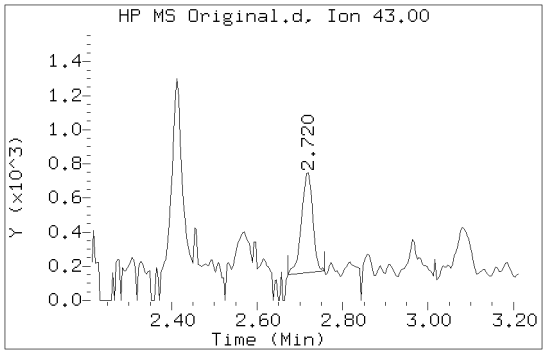


Methyl acetate (79-20-9)

Reason Code:

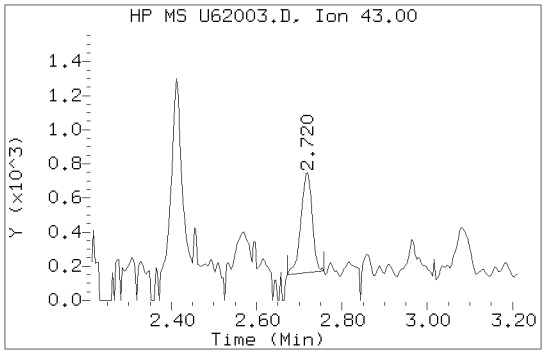
BEFORE

MASS
43
AREA
1084
HEIGHT
582
29-Jun-2024
12:15
s
zaid



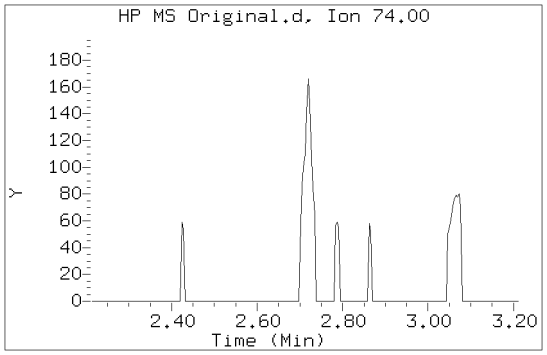
AFTER

MASS
43
AREA
1084
HEIGHT
582
29-Jun-2024
12:18
s
zaid



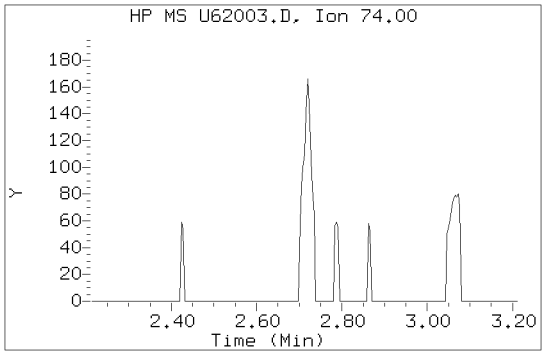
BEFORE

MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

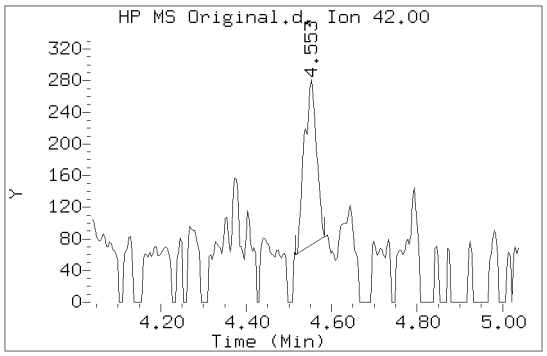


Tetrahydrofuran (109-99-9)

Reason Code:

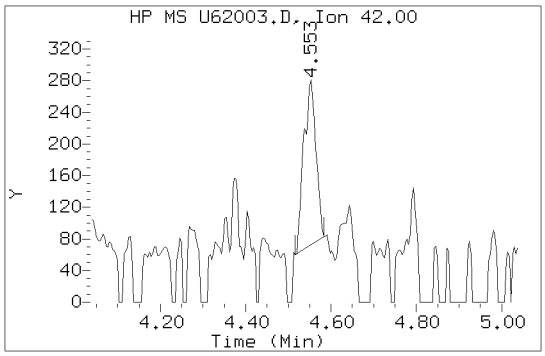
BEFORE

MASS
42
AREA
418
HEIGHT
208
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
418
HEIGHT
208
29-Jun-2024
12:18
s
zaid



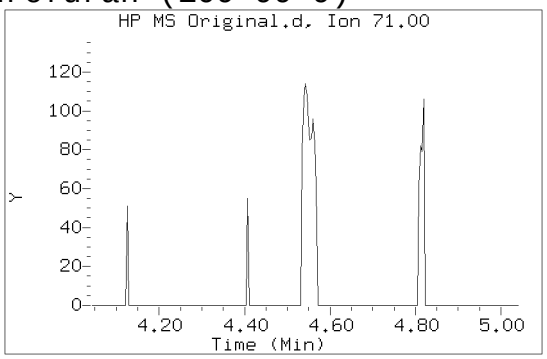
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

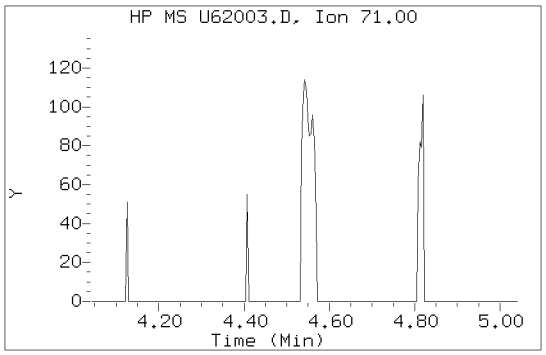
BEFORE

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

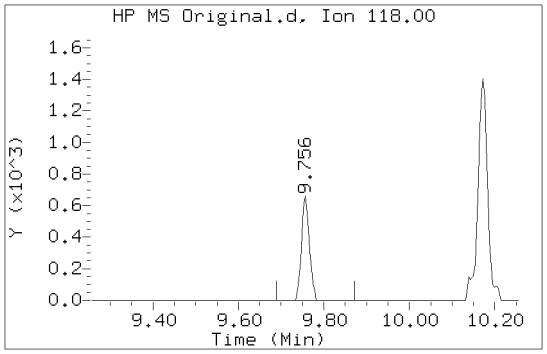


alpha-Methylstyrene (98-83-9)

Reason Code:

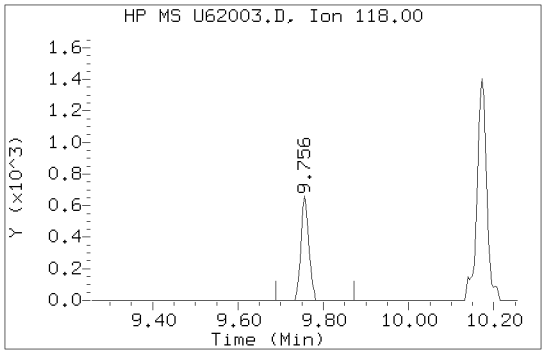
BEFORE

MASS
118
AREA
862
HEIGHT
660
29-Jun-2024
12:15
s
zaid



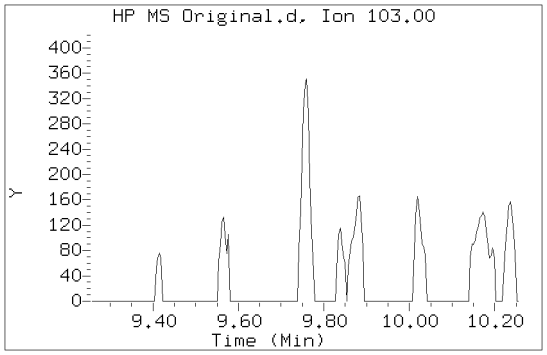
AFTER

MASS
118
AREA
862
HEIGHT
660
29-Jun-2024
12:18
s
zaid



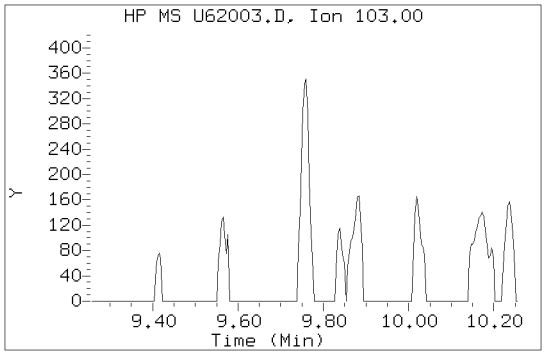
BEFORE

MASS
103
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
103
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

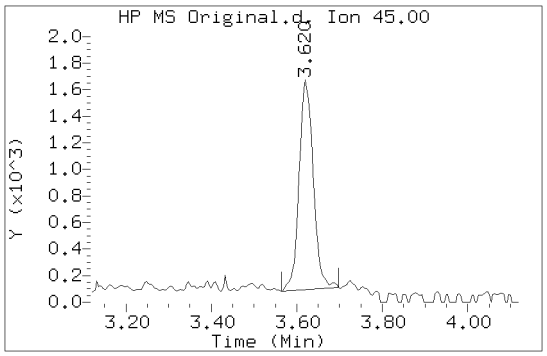


Diisopropyl ether (108-20-3)

Reason Code:

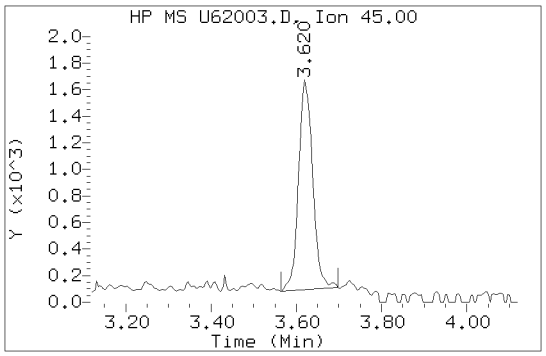
BEFORE

MASS
45
AREA
3700
HEIGHT
1578
29-Jun-2024
12:15
s
zaid



AFTER

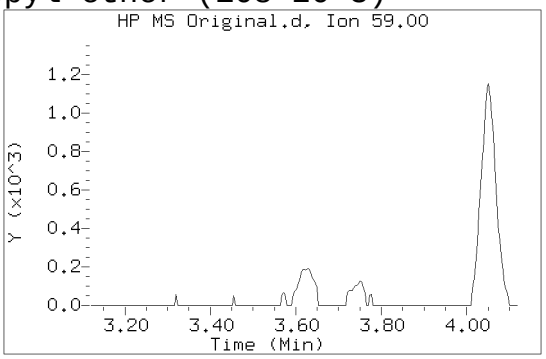
MASS
45
AREA
3700
HEIGHT
1578
29-Jun-2024
12:18
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

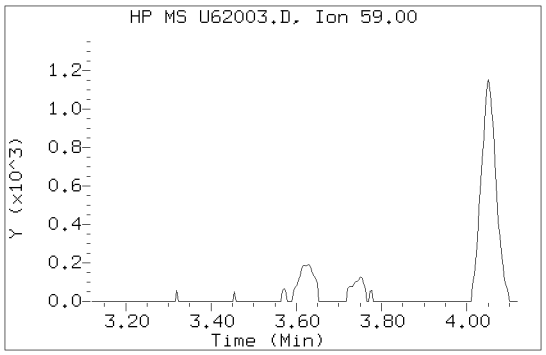
Diisopropyl ether (108-20-3)

BEFORE
MASS
59
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

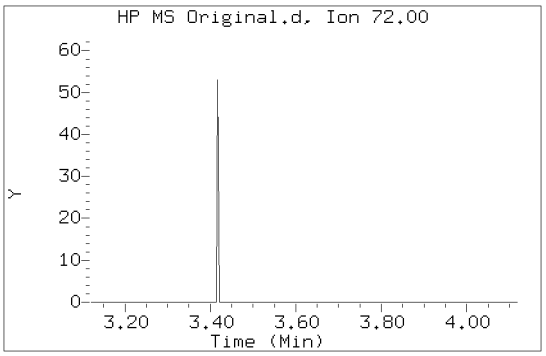


Reason Code:

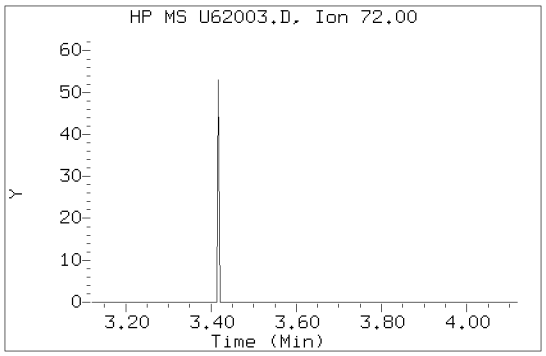
AFTER
MASS
59
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

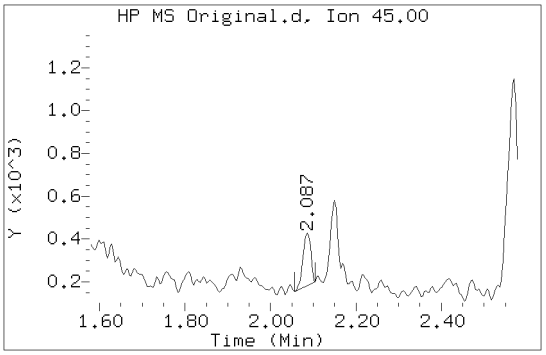


AFTER
MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



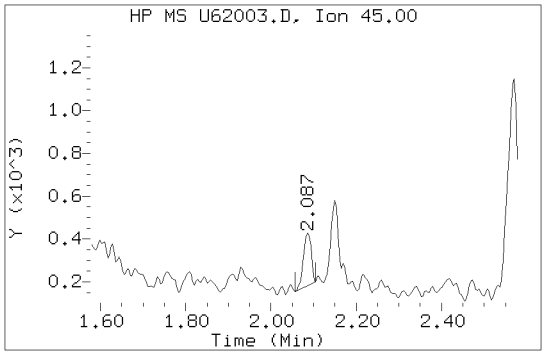
Ethanol (64-17-5)

BEFORE
MASS
45
AREA
318
HEIGHT
245
29-Jun-2024
12:15
s
zaid

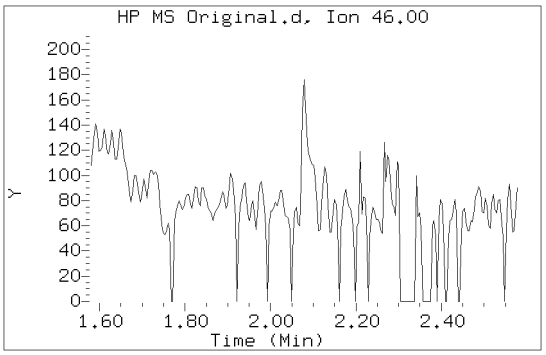


Reason Code:

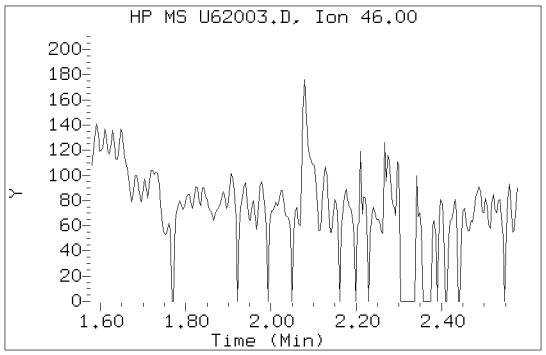
AFTER
MASS
45
AREA
318
HEIGHT
245
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
46
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
46
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



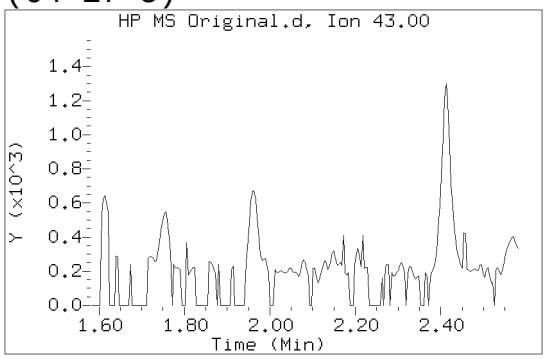
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Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

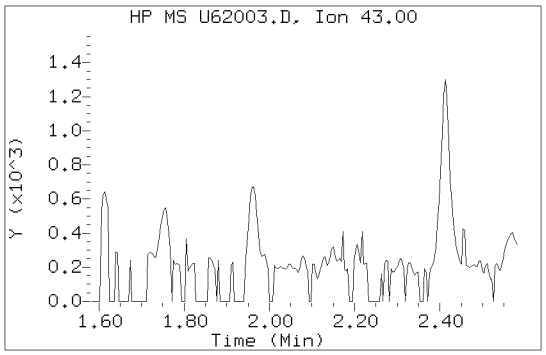
BEFORE

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0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
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HEIGHT
0
29-Jun-2024
12:18
s
zaid

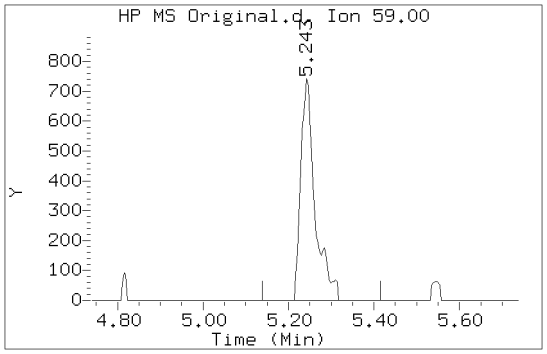


tert-Butyl formate (762-75-4)

Reason Code:

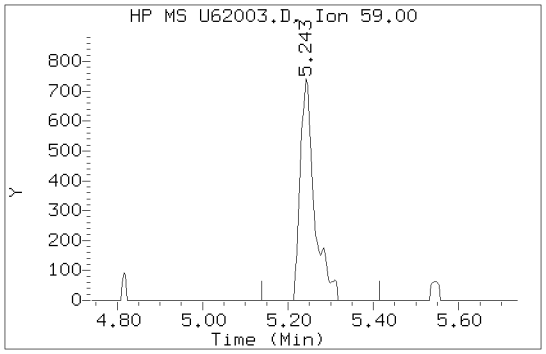
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MASS
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742
29-Jun-2024
12:15
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zaid



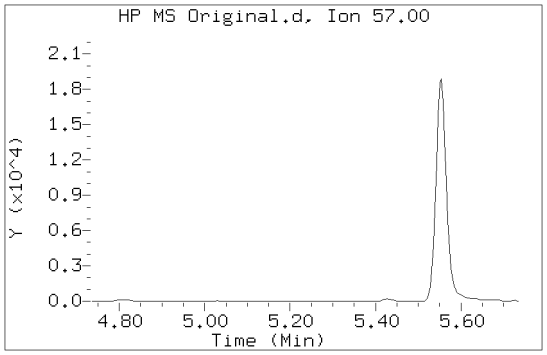
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29-Jun-2024
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zaid



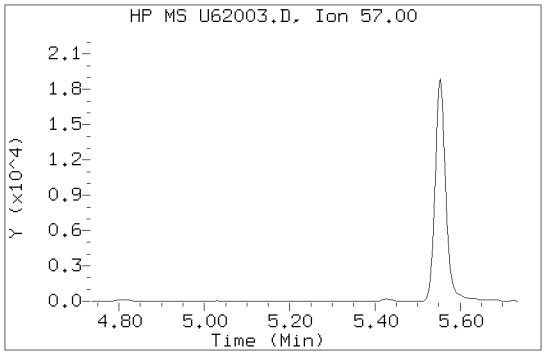
BEFORE

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29-Jun-2024
12:15
s
zaid



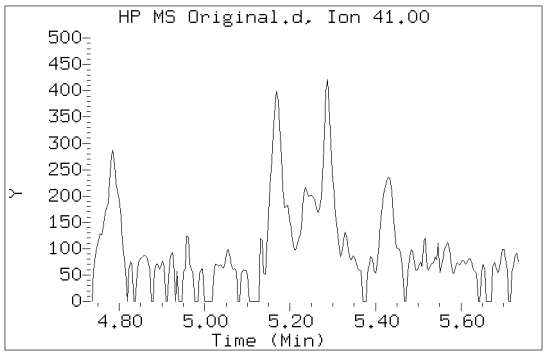
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zaid



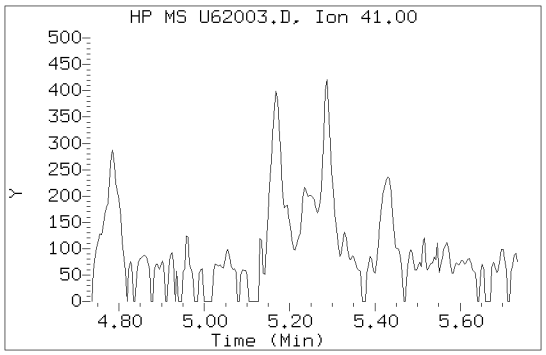
BEFORE

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HEIGHT
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29-Jun-2024
12:15
s
zaid



AFTER

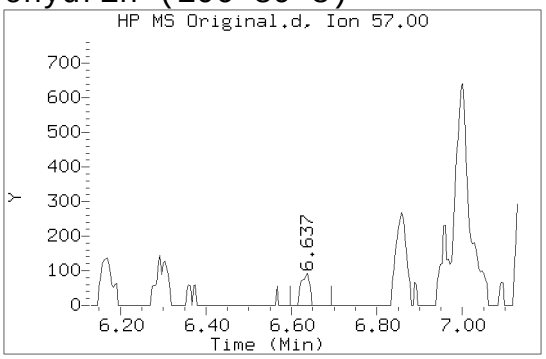
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41
AREA
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HEIGHT
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29-Jun-2024
12:18
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zaid



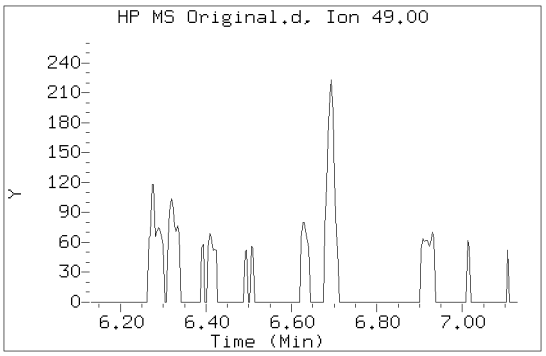
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Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

BEFORE
MASS
57
AREA
129
HEIGHT
92
29-Jun-2024
12:15
s
zaid

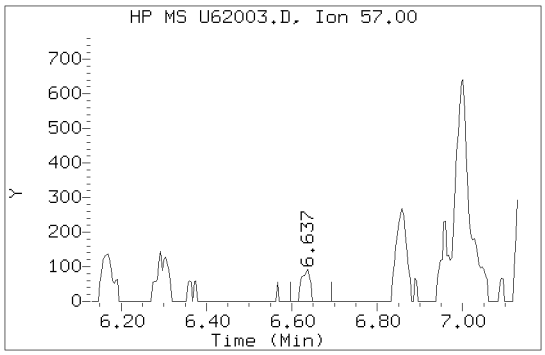


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12:15
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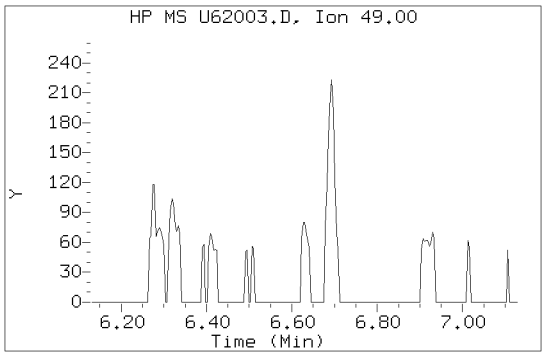


Reason Code:

AFTER
MASS
57
AREA
129
HEIGHT
92
29-Jun-2024
12:18
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zaid

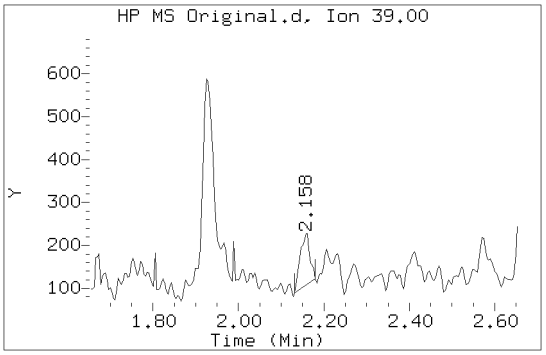


AFTER
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49
AREA
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HEIGHT
0
29-Jun-2024
12:18
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zaid

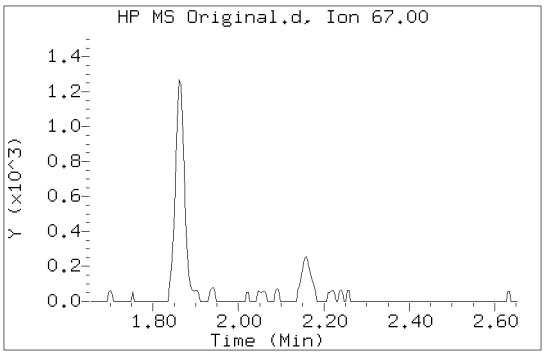


Isoprene (78-79-5)

BEFORE
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AREA
195
HEIGHT
120
29-Jun-2024
12:15
s
zaid

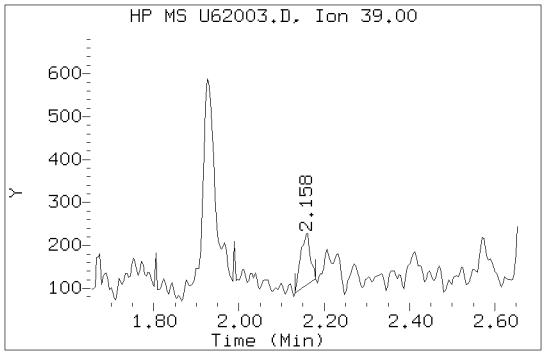


BEFORE
MASS
67
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HEIGHT
0
29-Jun-2024
12:15
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zaid

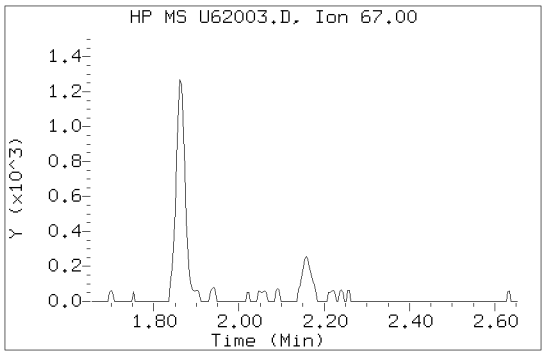


Reason Code:

AFTER
MASS
39
AREA
195
HEIGHT
120
29-Jun-2024
12:18
s
zaid



AFTER
MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



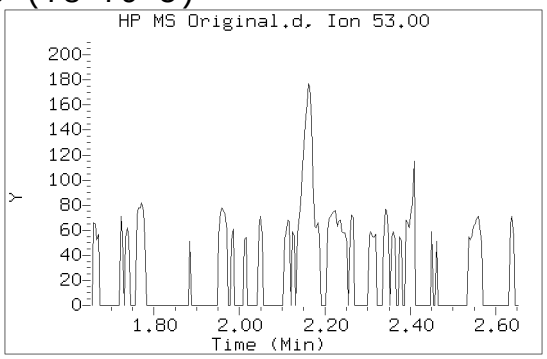
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Isoprene (78-79-5)

Reason Code:

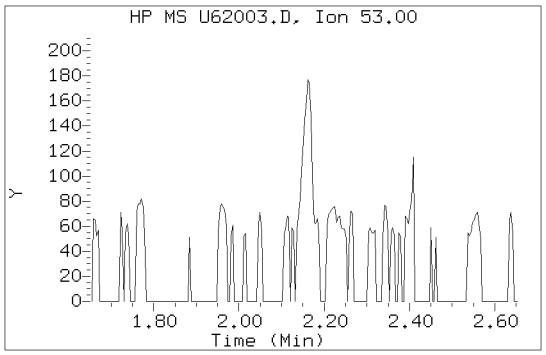
BEFORE

MASS
53
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

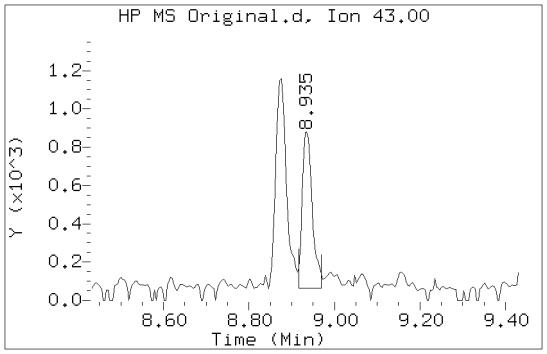


n-Amyl acetate (628-63-7)

Reason Code:

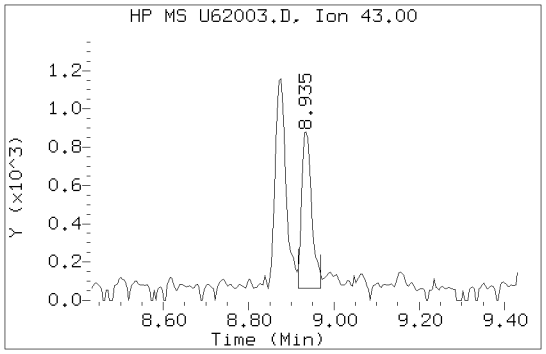
BEFORE

MASS
43
AREA
1387
HEIGHT
818
29-Jun-2024
12:15
s
zaid



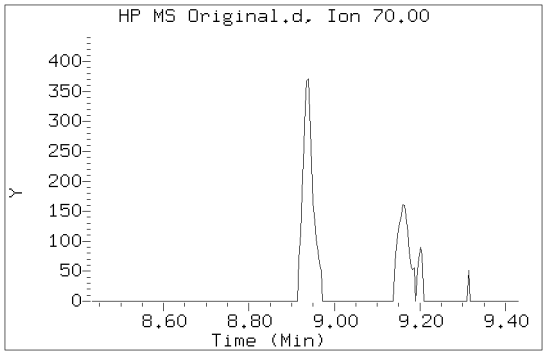
AFTER

MASS
43
AREA
1387
HEIGHT
818
29-Jun-2024
12:18
s
zaid



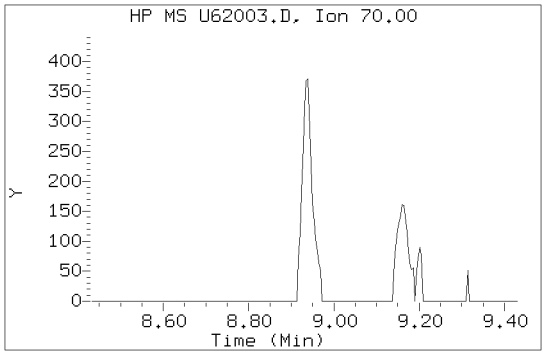
BEFORE

MASS
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AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



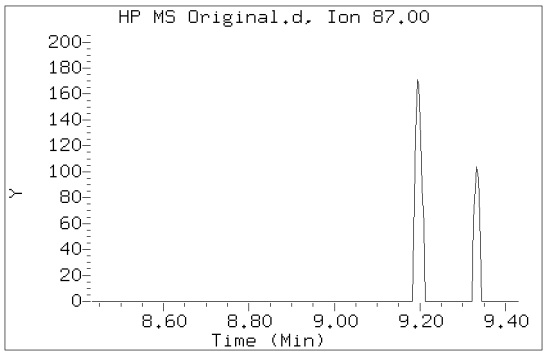
AFTER

MASS
70
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HEIGHT
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29-Jun-2024
12:18
s
zaid



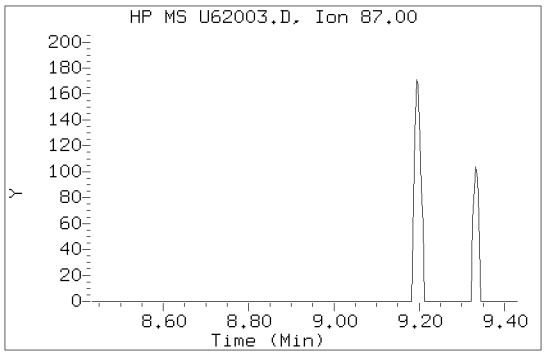
BEFORE

MASS
87
AREA
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HEIGHT
0
29-Jun-2024
12:15
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zaid



AFTER

MASS
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AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



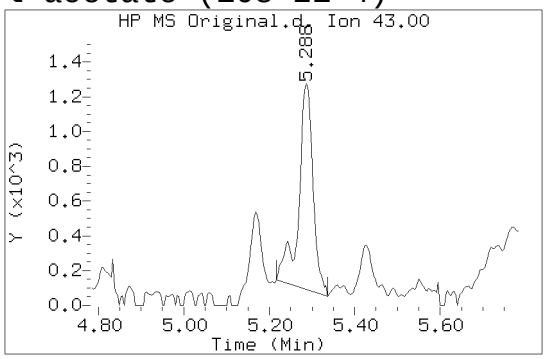
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

Isopropyl acetate (108-21-4)

Reason Code:

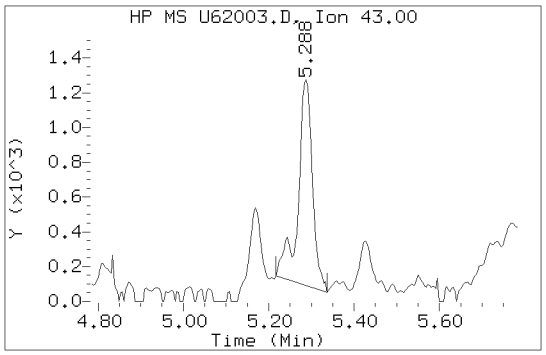
BEFORE

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43
AREA
2814
HEIGHT
1184
29-Jun-2024
12:15
s
zaid



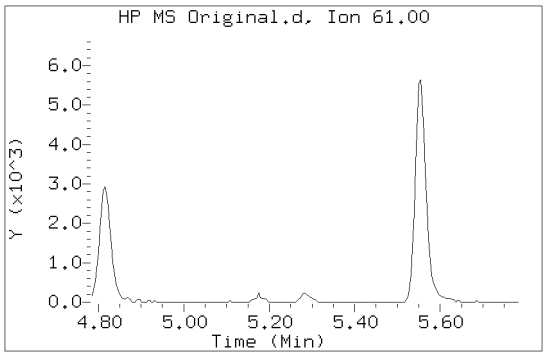
AFTER

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HEIGHT
1184
29-Jun-2024
12:18
s
zaid



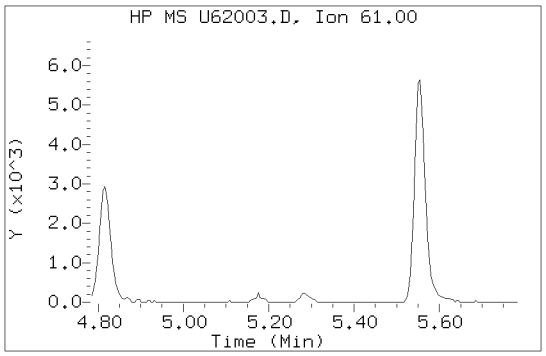
BEFORE

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61
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29-Jun-2024
12:15
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zaid



AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:18
s
zaid

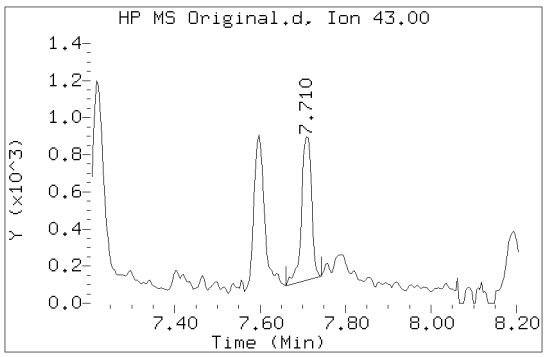


n-Butyl acetate (123-86-4)

Reason Code:

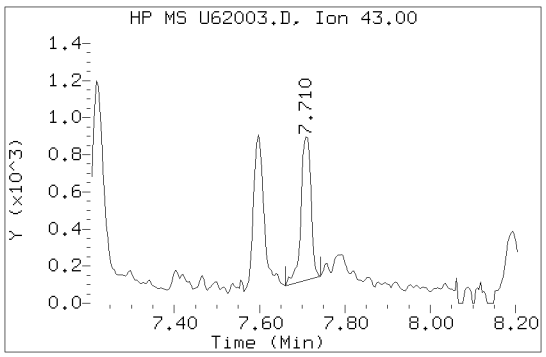
BEFORE

MASS
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AREA
1281
HEIGHT
770
29-Jun-2024
12:15
s
zaid



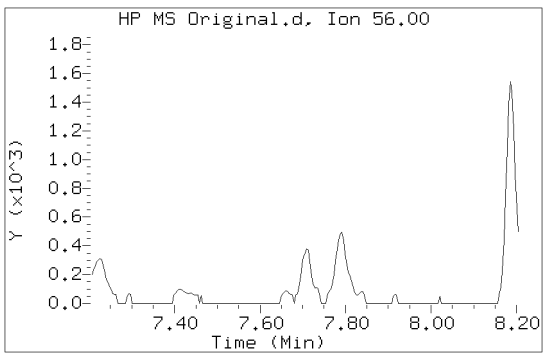
AFTER

MASS
43
AREA
1281
HEIGHT
770
29-Jun-2024
12:18
s
zaid



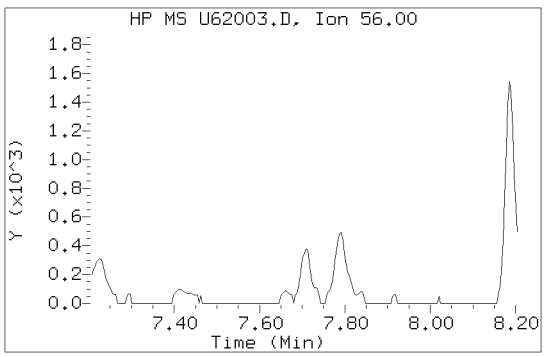
BEFORE

MASS
56
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:18
s
zaid



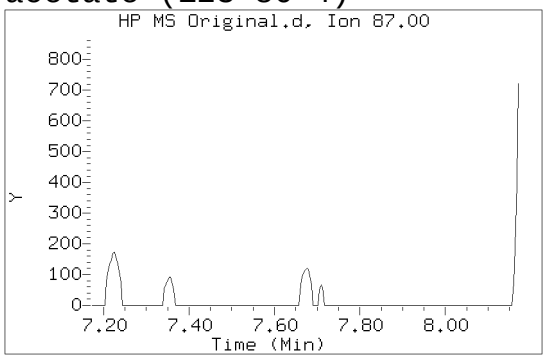
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62003.D
Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

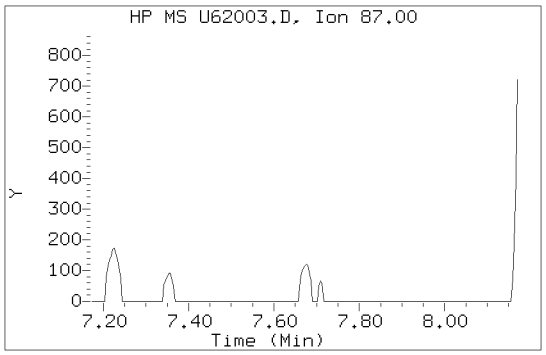
BEFORE

MASS
87
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

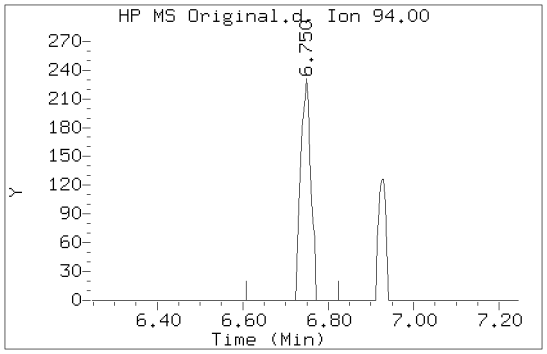


Dimethyl Disulfide (624-92-0)

Reason Code:

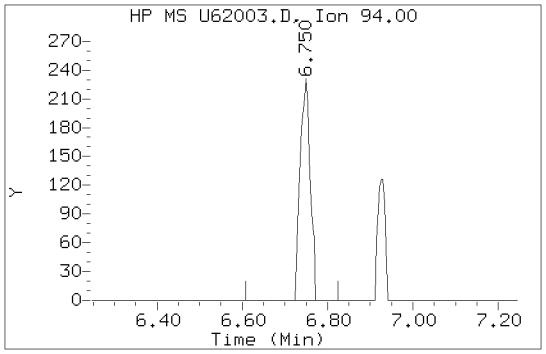
BEFORE

MASS
94
AREA
387
HEIGHT
231
29-Jun-2024
12:15
s
zaid



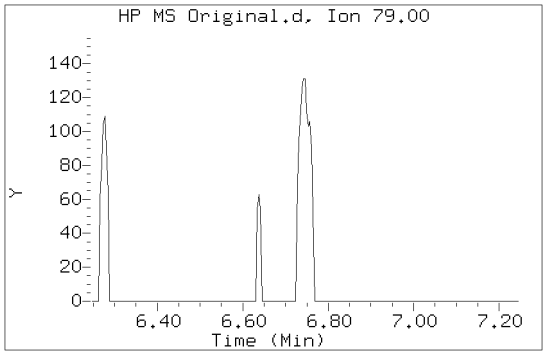
AFTER

MASS
94
AREA
387
HEIGHT
231
29-Jun-2024
12:18
s
zaid



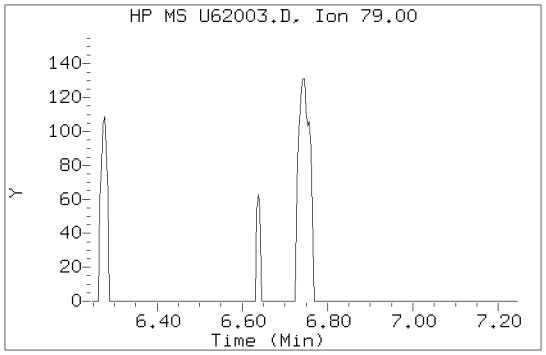
BEFORE

MASS
79
AREA
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29-Jun-2024
12:15
s
zaid



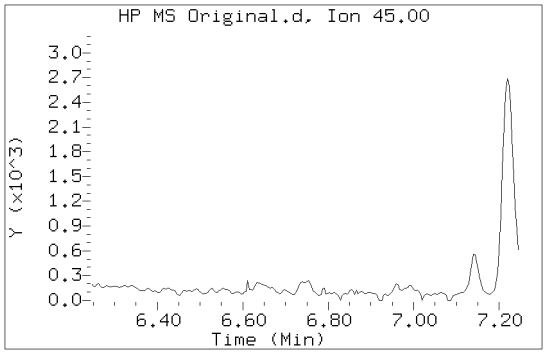
AFTER

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79
AREA
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HEIGHT
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29-Jun-2024
12:18
s
zaid



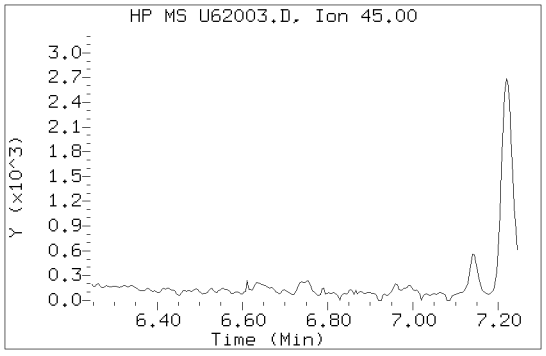
BEFORE

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29-Jun-2024
12:15
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zaid



AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:18
s
zaid



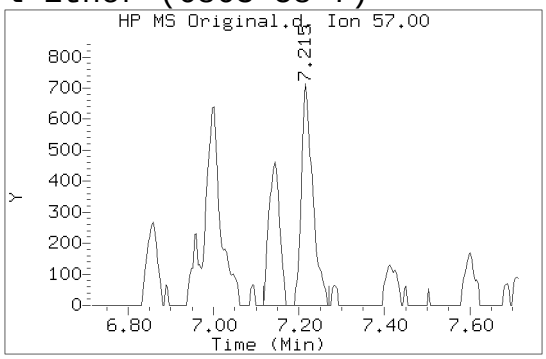
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Inj Date : 20-JUN-2024 11:44
InstruID : VOA9.i
LabSampID : VSTD00.5

sec-Butyl Ether (6863-58-7)

Reason Code:

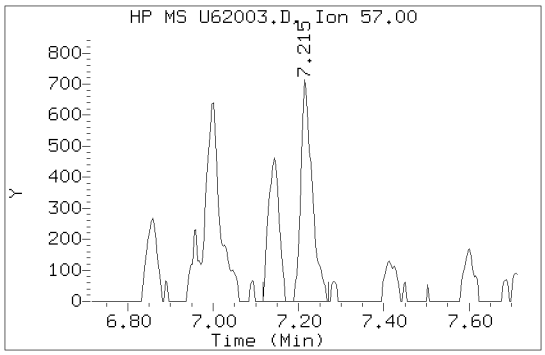
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AFTER

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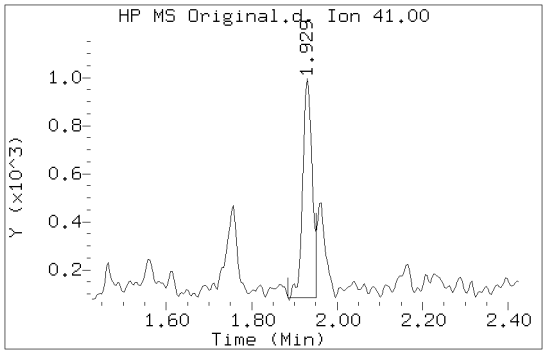


2-Chloropropene (557-98-2)

Reason Code:

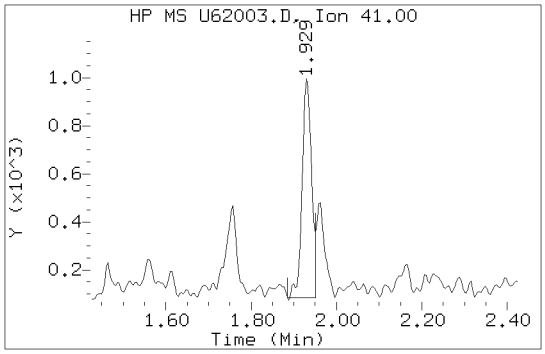
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 20-JUN-2024 12:06
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 11:44 Cal File: U62003.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	237223	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	1213	1.00000	0.71(M)
3 Chloromethane	50	1.295	1.295	(0.269)	8737	1.00000	0.80
4 Propionitrile	54	4.343	4.343	(0.902)	2871	10.0000	6.62(aM)
5 Vinyl Chloride	62	1.378	1.378	(0.286)	1918	1.00000	1.03(M)
6 Bromomethane	94	1.618	1.618	(0.336)	1849	1.00000	0.15(a)
7 Chloroethane	64	1.700	1.700	(0.353)	1738	1.00000	0.64
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	1563	1.00000	0.68
9 Acrolein	56	2.259	2.259	(0.469)	371	2.00000	(aM)
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	1203	1.00000	0.86
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	5036	20.0000	21.50(a)
13 Acetonitrile	39	2.671	2.671	(0.555)	1990	10.0000	0.76(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	5257	1.00000	0.74(a)
15 Iodomethane	142	2.465	2.465	(0.512)	1546	2.00000	3.43(T)
16 Acrylonitrile	53	3.065	3.065	(0.636)	1767	2.00000	2.55
17 Methylene Chloride	84	2.791	2.791	(0.580)	3728	1.00000	0.64
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	4855	1.00000	1.59
19 Carbon Disulfide	76	2.517	2.517	(0.523)	6497	2.00000	1.70(M)
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	1556	1.00000	0.46(a)
21 Vinyl Acetate	43	4.343	4.343	(0.902)	2234	2.00000	2.38(M)

22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	3062	1.00000	0.33(Ta)
23 Chloroprene	53	3.608	3.608 (0.749)	2091	1.00000	0.64(a)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.272	4.272	(0.887)	2089	2.00000	2.68(M)
	25	Methacrylonitrile	41	4.500	4.500	(0.935)	1366	1.00000	2.12(aM)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	1823	1.00000	1.38(M)
	27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	1910	1.00000	0.74
	28	Chloroform	83	4.568	4.568	(0.949)	3088	1.00000	0.23(a)
	29	Bromochloromethane	128	4.467	4.467	(0.928)	942	1.00000	0.99
$	30	Dibromofluoromethane	113	4.748	4.748	(0.986)	1342	1.00000	0.85
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	1578	1.00000	0.71
	32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	1570	1.00000	0.72(M)
	34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	1323	1.00000	0.73(M)
$	35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	1907	1.00000	0.94(T)
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	354258	50.0000	
	37	Benzene	78	5.138	5.138	(0.926)	7178	1.00000	0.98
	38	Trichloroethene	130	5.790	5.790	(1.043)	1551	1.00000	0.87(a)
	39	Bromodichloromethane	83	6.273	6.273	(1.130)	1865	1.00000	0.90(aM)
	40	Methyl Methacrylate	41	5.827	5.827	(1.210)	587	1.00000	0.94(aM)
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	1860	1.00000	0.96(a)
	43	2-Nitropropane	43	6.510	6.510	(1.352)	357	1.00000	0.95(aM)
	44	Dibromomethane	93	6.120	6.120	(1.103)	1078	1.00000	0.95(a)
	45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	3187	2.00000	1.82(a)
	46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	2008	1.00000	0.83(a)
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	316055	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	5525	1.00000	0.90(a)
	49	Ethyl Methacrylate	69	7.293	7.293	(1.314)	1885	1.00000	0.83(a)
	50	Toluene	91	6.982	6.982	(0.853)	6432	1.00000	0.89(a)
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	1381	1.00000	2.81(aM)
	52	2-Hexanone	43	7.218	7.218	(0.882)	3306	2.00000	1.97(a)
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	1411	1.00000	1.01(a)
	54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	2872	1.00000	0.98(a)
	55	Dibromochloromethane	129	7.690	7.690	(0.940)	1224	1.00000	0.84(a)
	56	Tetrachloroethene	164	7.458	7.458	(0.911)	1175	1.00000	0.87(a)
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	1379	1.00000	0.89(a)
	58	1-Chlorohexane	55	8.185	8.185	(1.475)	4107	1.00000	2.31(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	4783	1.00000	0.32(a)
	60	1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	1412	1.00000	0.91(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	1810	1.00000	0.81(a)
	62	m,p-Xylenes	106	8.410	8.410	(1.027)	4030	2.00000	1.51(a)
	63	o-Xylene	106	8.751	8.751	(1.069)	2119	1.00000	0.80(a)
	64	Styrene	104	8.763	8.763	(1.071)	3240	1.00000	0.73(a)
	66	Bromoform	173	8.920	8.920	(1.090)	774	1.00000	1.74(aM)
	67	Isopropylbenzene	105	9.062	9.062	(1.107)	4712	1.00000	0.72(a)
	68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	2063	1.00000	0.70(aM)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	2909	1.00000	1.20(a)
*	70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	163582	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	2095	1.00000	1.82(a)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	399	1.00000	0.90(aM)
	73	n-Propylbenzene	91	9.415	9.415	(0.926)	5205	1.00000	0.73(a)
	74	Bromobenzene	156	9.317	9.317	(0.916)	1758	1.00000	0.91(a)
	75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	3570	1.00000	2.33(a)
	76	2-Chlorotoluene	91	9.486	9.486	(0.933)	4277	1.00000	0.89(a)
	77	4-Chlorotoluene	91	9.576	9.576	(0.941)	4871	1.00000	0.89(a)
	78	tert-Butylbenzene	119	9.838	9.838	(0.967)	3275	1.00000	0.75(a)

79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.971)	6112	1.00000	1.17(aM)
81 sec-Butylbenzene	105	10.022	10.022 (0.985)	4360	1.00000	0.75(a)

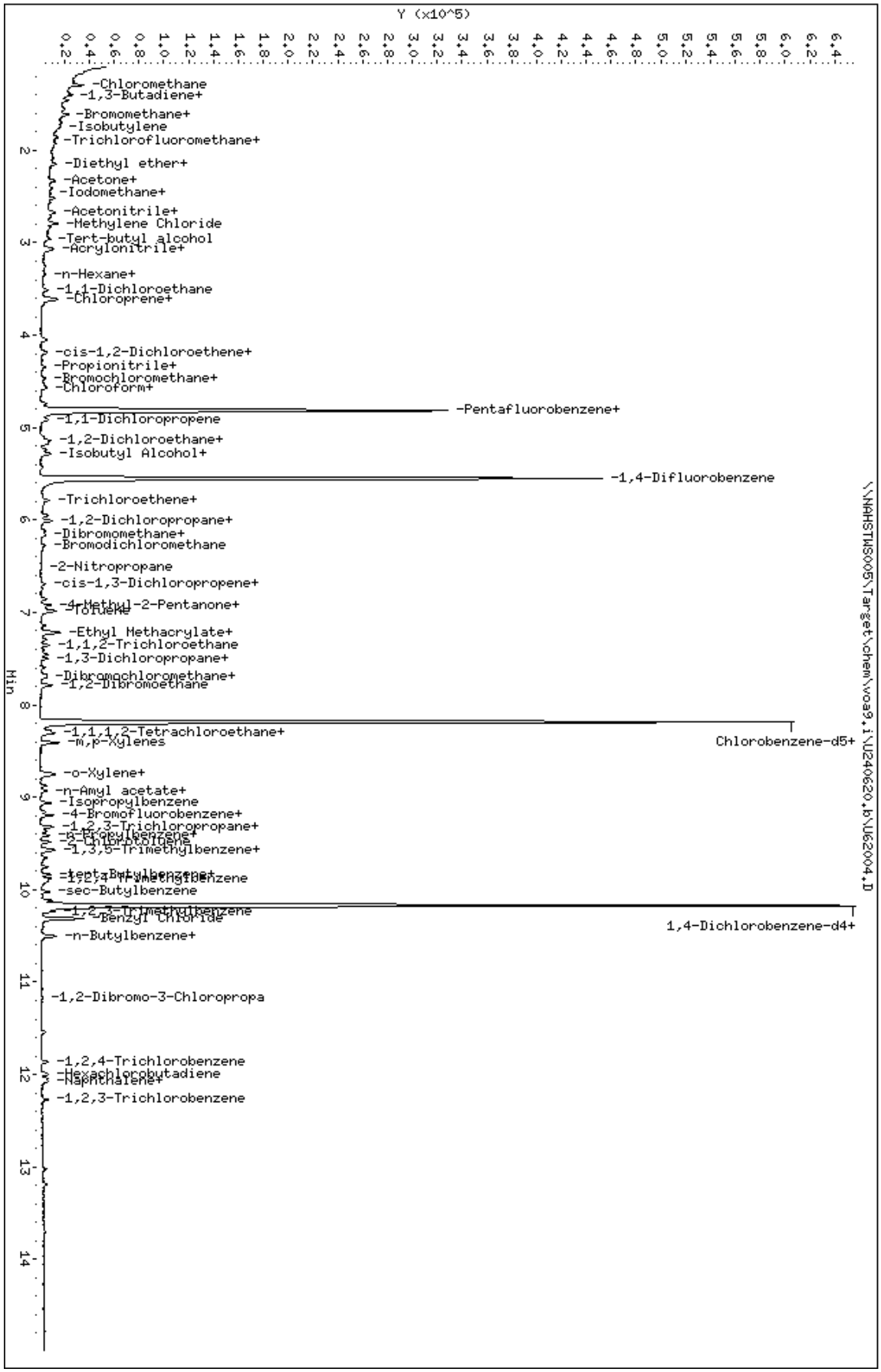
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	10.150	10.150	(0.998)	3438	1.00000	2.24(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	3343	1.00000	0.94(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	3940	1.00000	0.54(a)
86	Benzyl Chloride	91	10.315	10.315	(1.260)	23420	1.00000	3.55(a)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	2847	1.00000	1.92(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	3460	1.00000	0.98(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	163	1.00000	0.91(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	1929	1.00000	0.90(aM)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	909	1.00000	0.96(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	3393	1.00000	2.61(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	1793	1.00000	0.91(aM)
146	Methyl acetate	43	2.708	2.708	(0.563)	1432	1.00000	(aM)
141	Cyclohexane	56	4.815	4.815	(1.000)	5426	1.00000	1.45(a)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	580	2.00000	2.06(aM)
147	Methylcyclohexane	55	5.947	5.947	(1.072)	3011	1.00000	0.80(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	731	20.0000	3.54(aM)
132	n-Butanol	56	5.831	5.831	(1.211)	943	20.0000	21.17(a)
136	n-Hexane	57	3.342	3.342	(0.694)	1023	1.00000	0.67(Ta)
139	Diethyl ether	59	2.142	2.142	(0.445)	1489	1.00000	0.33(a)
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	3648	20.0000	14.62
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	2486	20.0000	8.83(T)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	6473	1.00000	1.13(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	2642	1.00000	0.90(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	6874	1.00000	0.97(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	4790	1.00000	1.02(a)
167	Ethanol	45	2.079	2.079	(0.432)	748	20.0000	14.58
172	tert-Butyl formate	59	5.239	5.239	(1.088)	2782	2.00000	1.54(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	8799	20.0000	18.01
140	1,3-Butadiene	54	1.404	1.404	(0.292)	1536	1.00000	0.75(a)
182	Epichlorohydrin	57	6.630	6.630	(1.195)	188	4.00000	7.99(M)
M 94	1,2-Dichloroethylene (total)	96				3466	2.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	903	1.00000	(aM)
131	Methyl Acrylate	55	4.377	4.377	(0.909)	2131	1.00000	1.08(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	2103	1.00000	0.83(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	2164	20.0000	17.93(Ta)
185	Isoprene	39	2.146	2.146	(0.446)	260	1.00000	0.75(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	4316	1.00000	0.91(aM)
150	Allyl alcohol	57	3.342	3.342	(0.694)	1023	20.0000	13.45
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	761	1.00000	1.99(aM)
202	Isobutylene	41	1.745	1.745	(0.362)	329	1.00000	1.71(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	3253	1.00000	0.87(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	2158	1.00000	0.70(a)
178	Ethylene oxide	44	1.606	1.606	(0.334)	2844	2.00000	1.61(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1803	1.00000	2.29(a)
204	Tetrahydrothiophene	60	7.675	7.675	(0.938)	1763	1.00000	0.98(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	3683	1.00000	1.04(aAM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	2778	1.00000	0.99(aM)
206	2-Chloropropene	41	1.925	1.925	(0.400)	1854	1.00000	0.76(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
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Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

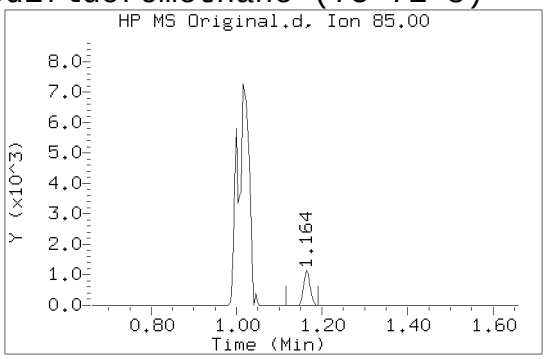
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Inj Date : 20-JUN-2024 12:06
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LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

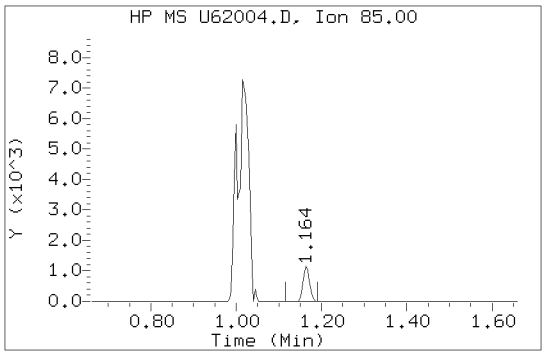
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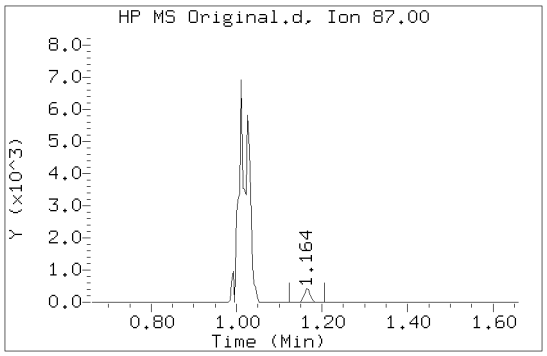
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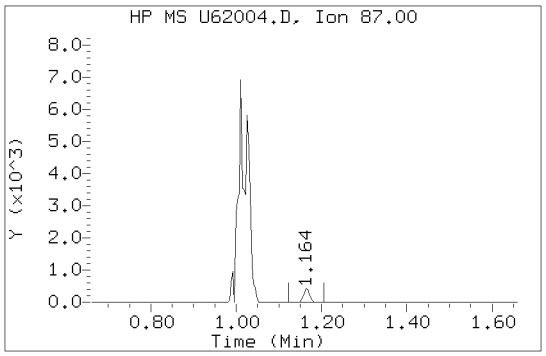
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AFTER

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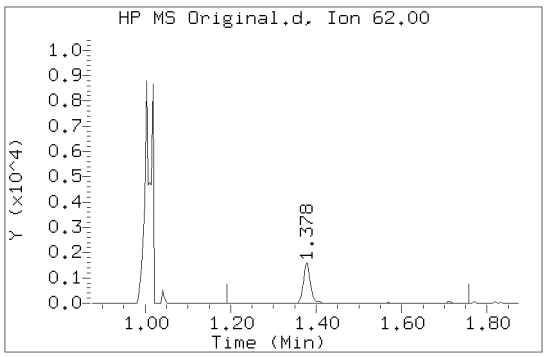


Vinyl Chloride (75-01-4)

Reason Code:

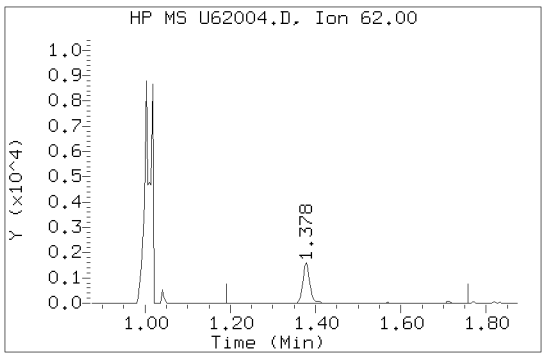
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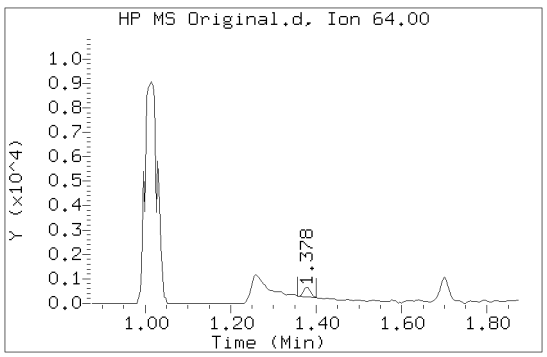
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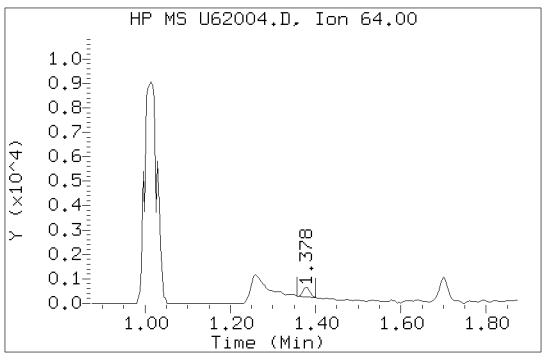
BEFORE

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zaid



AFTER

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HEIGHT
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29-Jun-2024
12:15
s
zaid



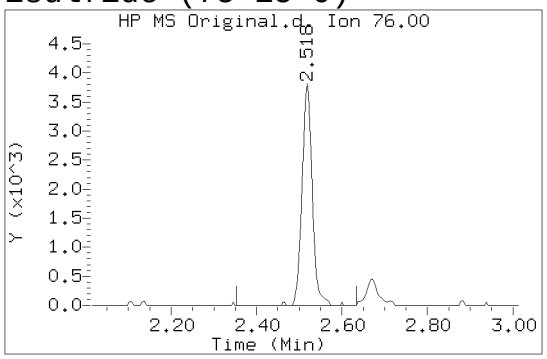
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Carbon Disulfide (75-15-0)

Reason Code:

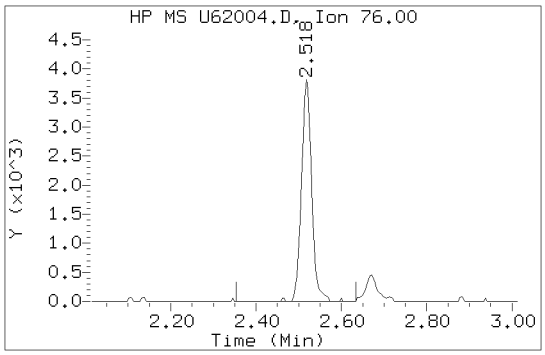
BEFORE

MASS
76
AREA
6497
HEIGHT
3814
29-Jun-2024
12:15
s
zaid



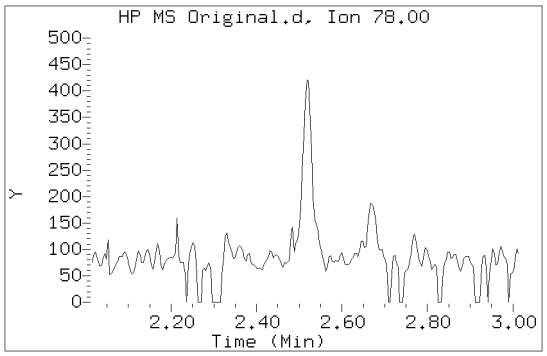
AFTER

MASS
76
AREA
6497
HEIGHT
3814
29-Jun-2024
12:15
s
zaid



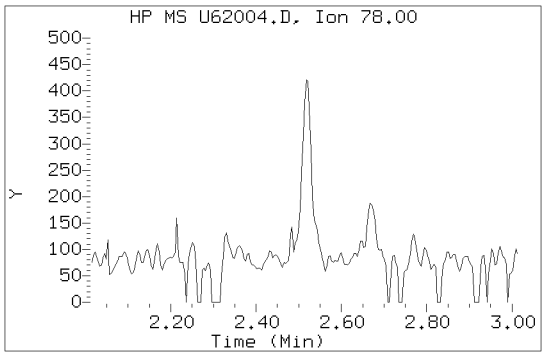
BEFORE

MASS
78
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
78
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

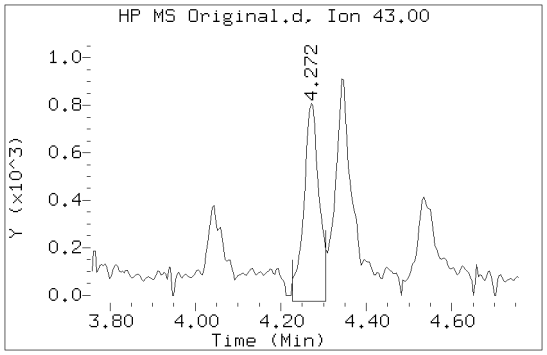


2-Butanone (78-93-3)

Reason Code:

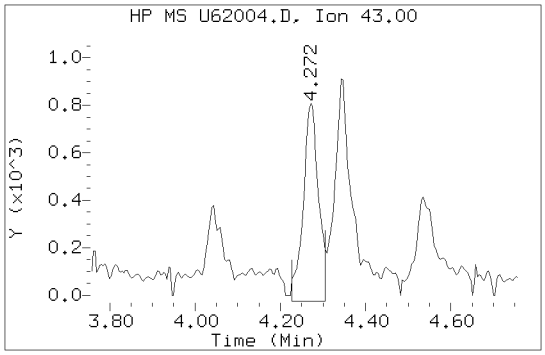
BEFORE

MASS
43
AREA
2089
HEIGHT
834
29-Jun-2024
12:15
s
zaid



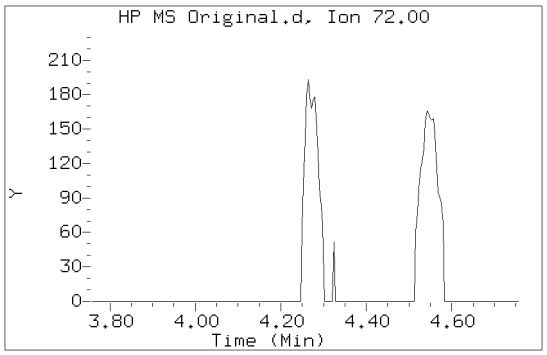
AFTER

MASS
43
AREA
2089
HEIGHT
834
29-Jun-2024
12:15
s
zaid



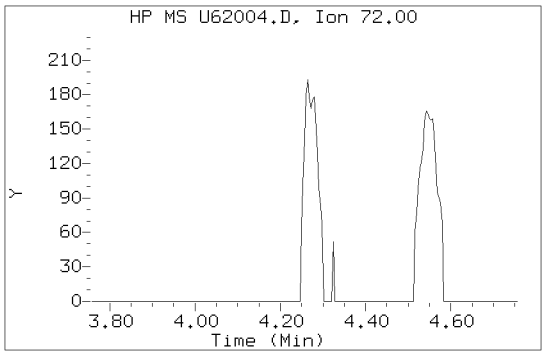
BEFORE

MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



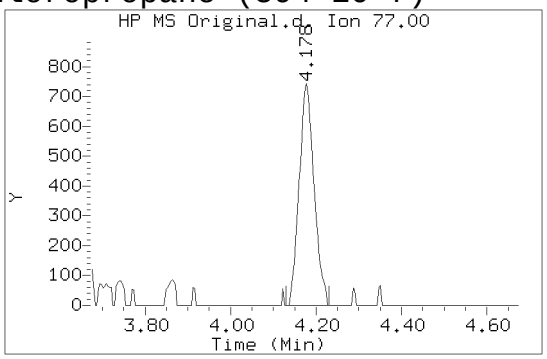
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

2,2-Dichloropropane (594-20-7)

Reason Code:

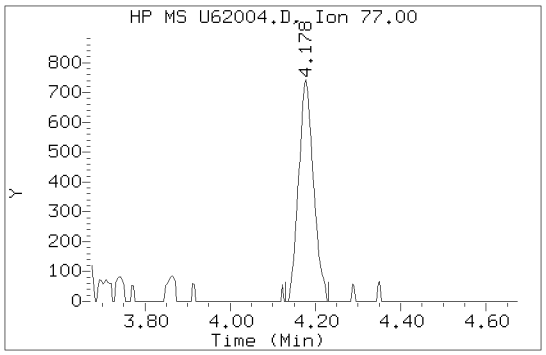
BEFORE

MASS
77
AREA
1823
HEIGHT
743
29-Jun-2024
12:15
s
zaid



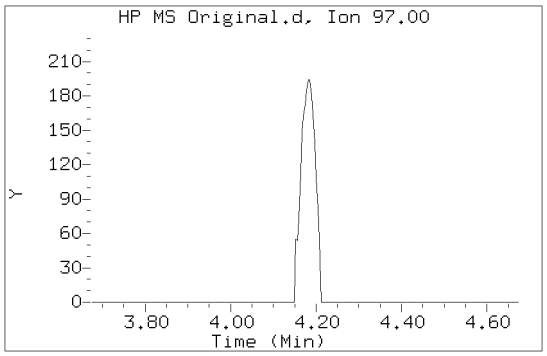
AFTER

MASS
77
AREA
1823
HEIGHT
743
29-Jun-2024
12:15
s
zaid



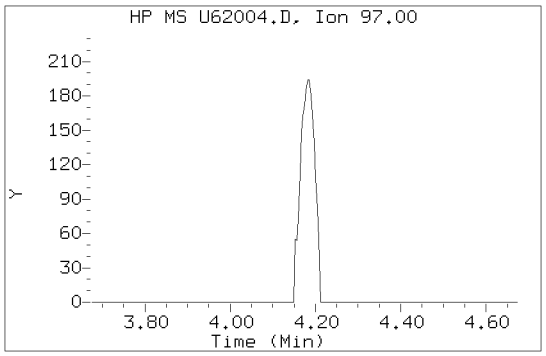
BEFORE

MASS
97
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
97
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

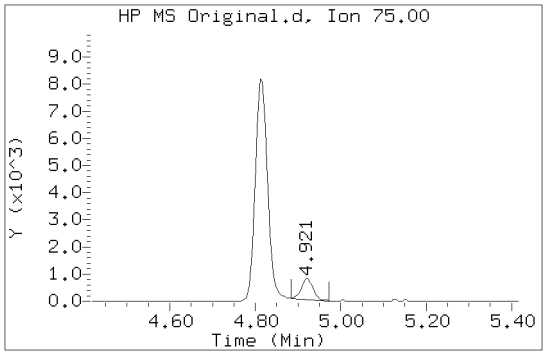


1,1-Dichloropropene (563-58-6)

Reason Code:

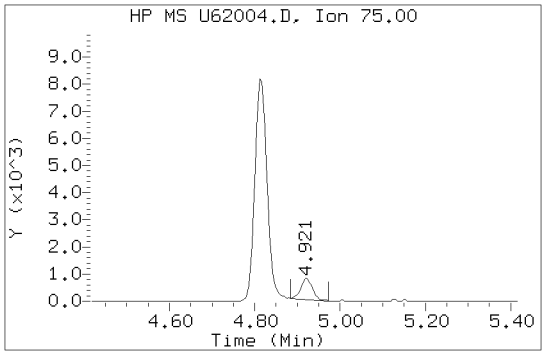
BEFORE

MASS
75
AREA
1570
HEIGHT
807
29-Jun-2024
12:15
s
zaid



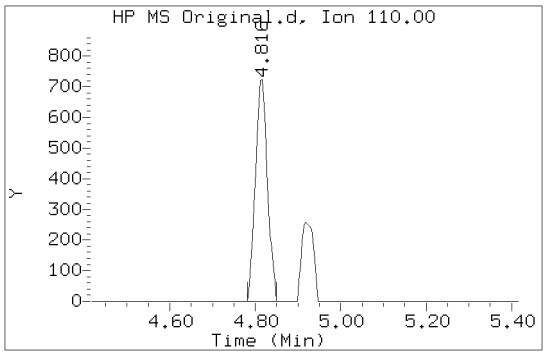
AFTER

MASS
75
AREA
1570
HEIGHT
807
29-Jun-2024
12:15
s
zaid



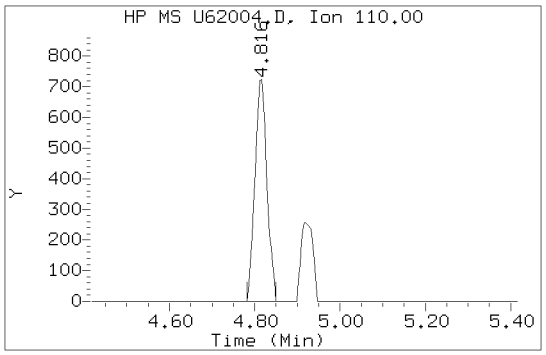
BEFORE

MASS
110
AREA
1415
HEIGHT
723
29-Jun-2024
12:15
s
zaid



AFTER

MASS
110
AREA
1415
HEIGHT
723
29-Jun-2024
12:15
s
zaid



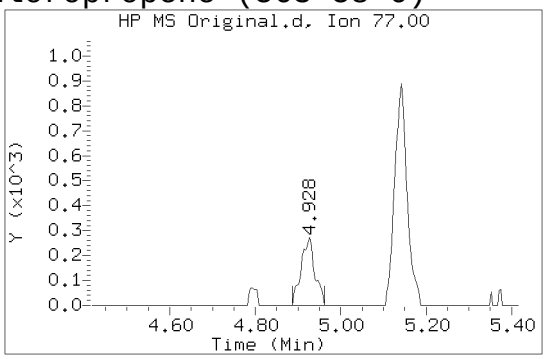
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

1,1-Dichloropropene (563-58-6)

Reason Code:

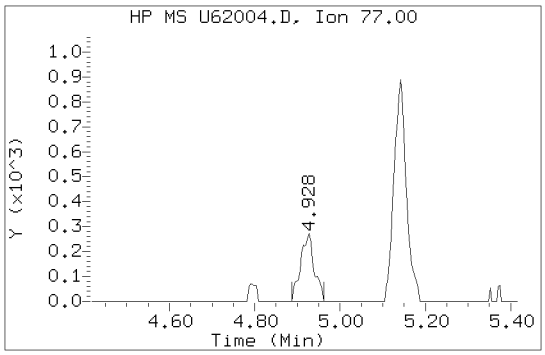
BEFORE

MASS
77
AREA
615
HEIGHT
273
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
615
HEIGHT
273
29-Jun-2024
12:15
s
zaid

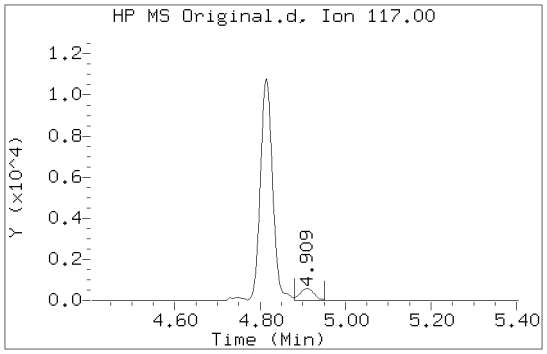


Carbon Tetrachloride (56-23-5)

Reason Code:

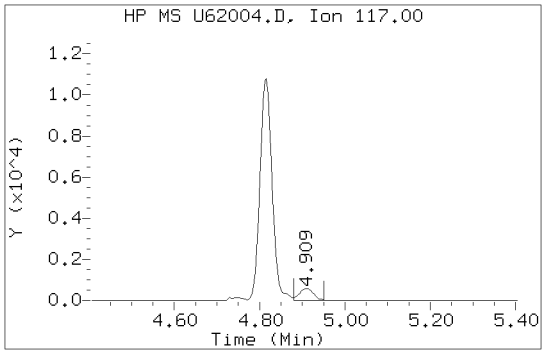
BEFORE

MASS
117
AREA
1323
HEIGHT
565
29-Jun-2024
12:15
s
zaid



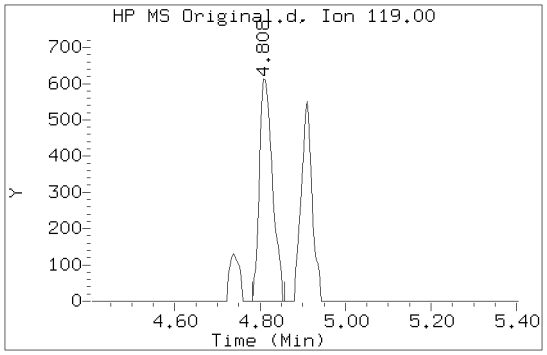
AFTER

MASS
117
AREA
1323
HEIGHT
565
29-Jun-2024
12:15
s
zaid



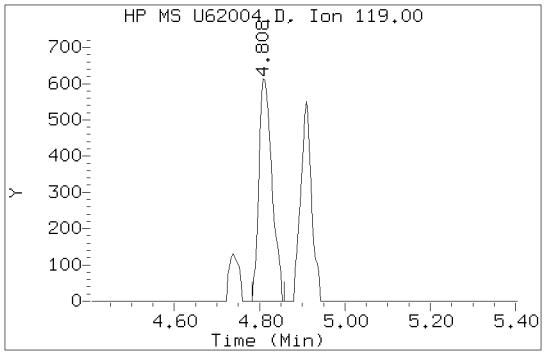
BEFORE

MASS
119
AREA
1306
HEIGHT
613
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1306
HEIGHT
613
29-Jun-2024
12:15
s
zaid

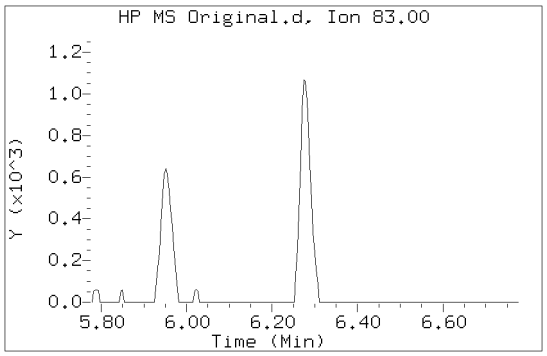


Bromodichloromethane (75-27-4)

Reason Code:

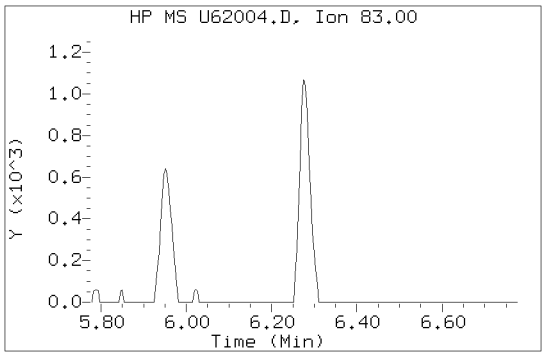
BEFORE

MASS
83
AREA
1865
HEIGHT
1067
29-Jun-2024
12:15
s
zaid



AFTER

MASS
83
AREA
1865
HEIGHT
1067
29-Jun-2024
12:15
s
zaid



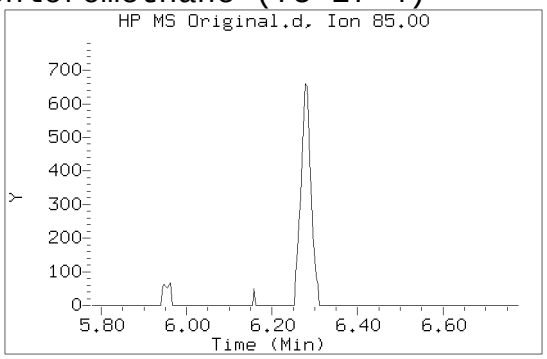
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

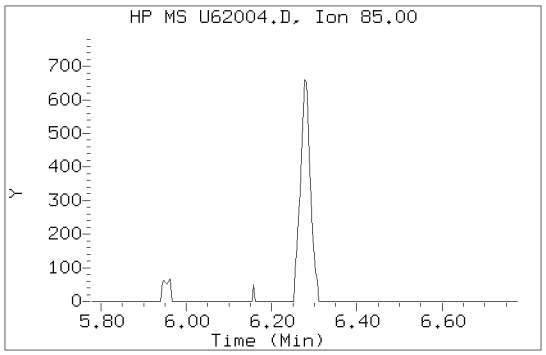
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



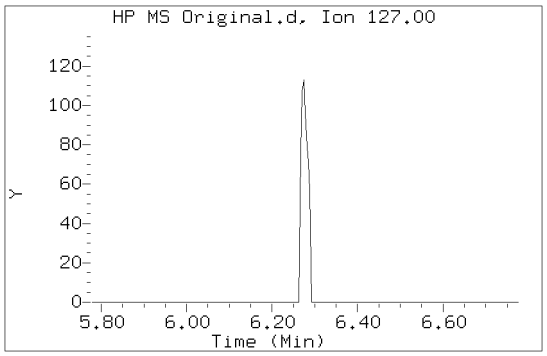
AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



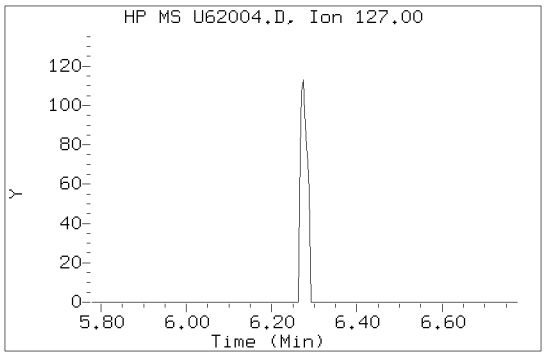
BEFORE

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
127
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

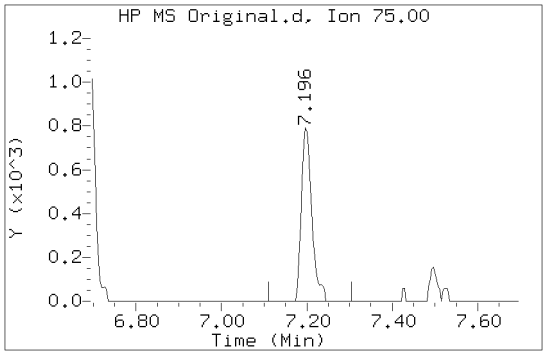


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

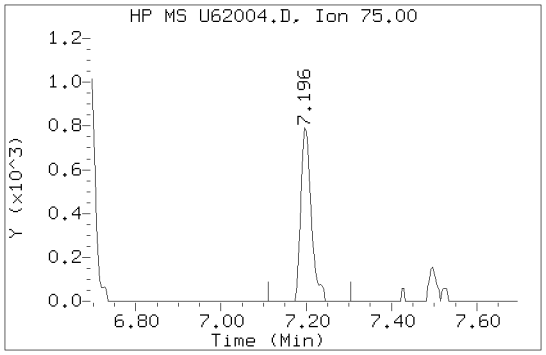
BEFORE

MASS
75
AREA
1381
HEIGHT
791
29-Jun-2024
12:15
s
zaid



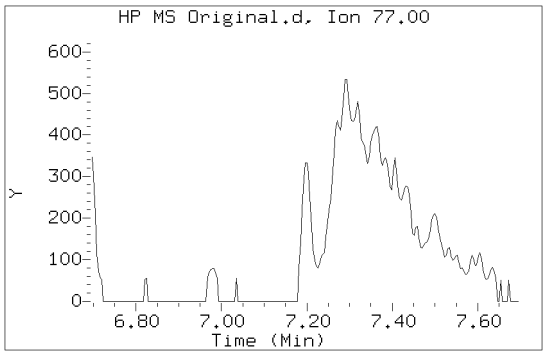
AFTER

MASS
75
AREA
1381
HEIGHT
791
29-Jun-2024
12:15
s
zaid



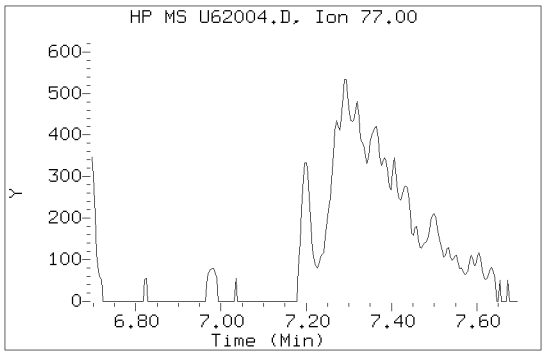
BEFORE

MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



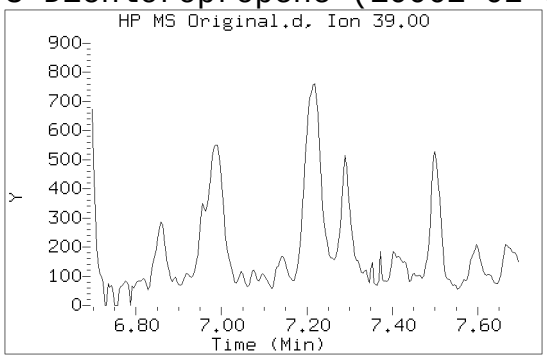
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

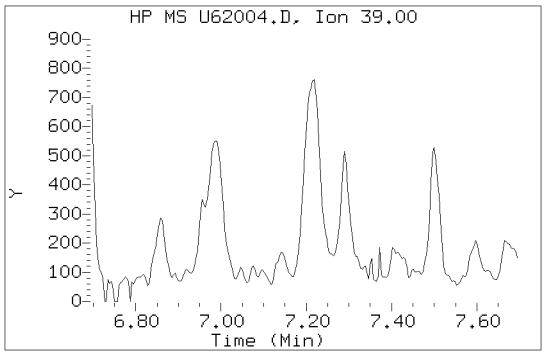
BEFORE

MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

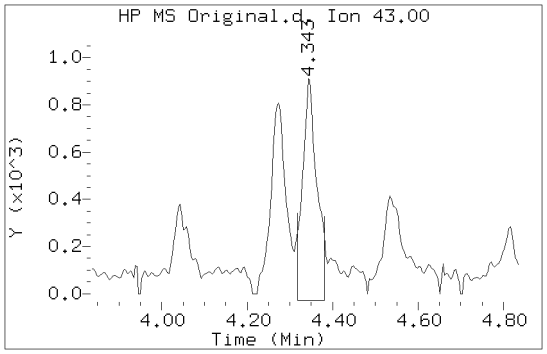


Vinyl Acetate (108-05-4)

Reason Code:

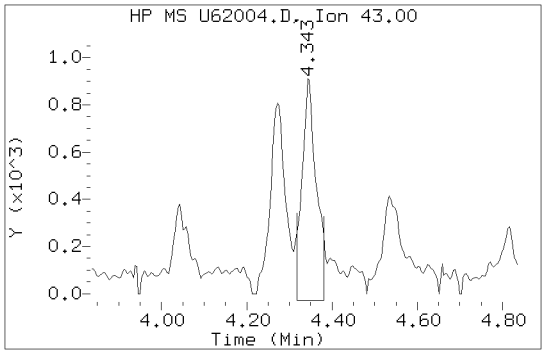
BEFORE

MASS
43
AREA
2234
HEIGHT
939
29-Jun-2024
12:15
s
zaid



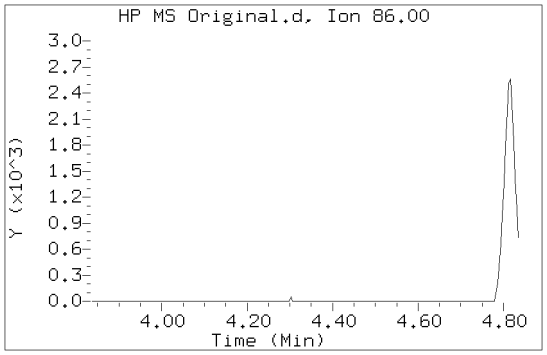
AFTER

MASS
43
AREA
2234
HEIGHT
939
29-Jun-2024
12:15
s
zaid



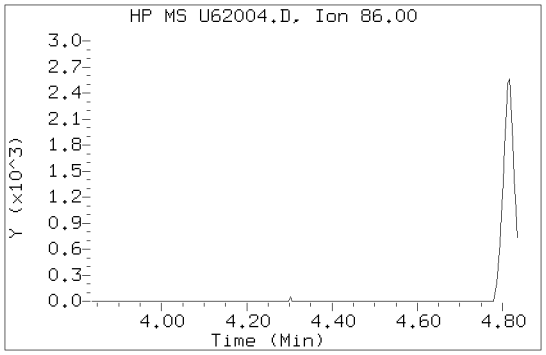
BEFORE

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

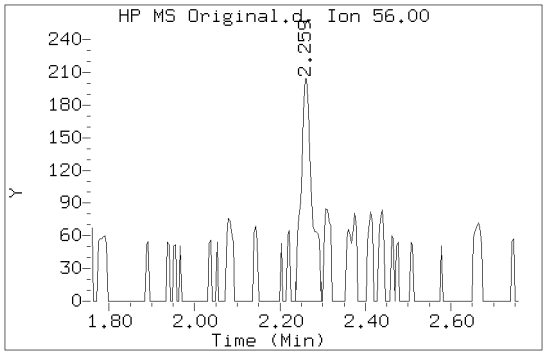


Acrolein (107-02-8)

Reason Code:

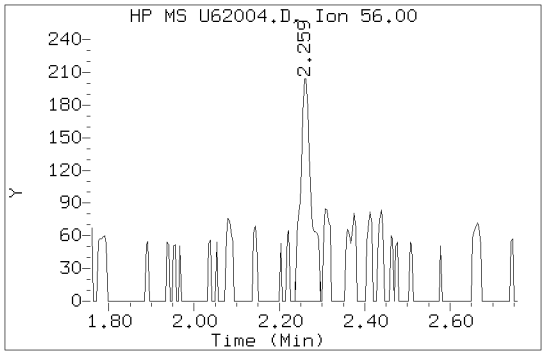
BEFORE

MASS
56
AREA
371
HEIGHT
204
29-Jun-2024
12:15
s
zaid



AFTER

MASS
56
AREA
371
HEIGHT
204
29-Jun-2024
12:15
s
zaid



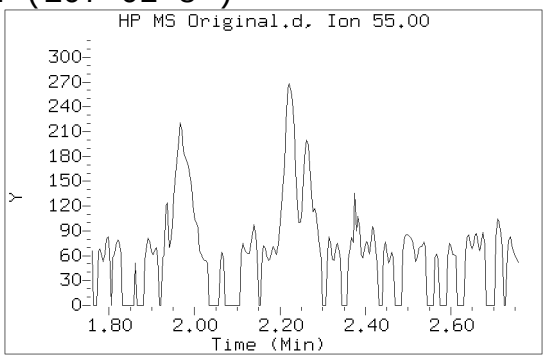
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

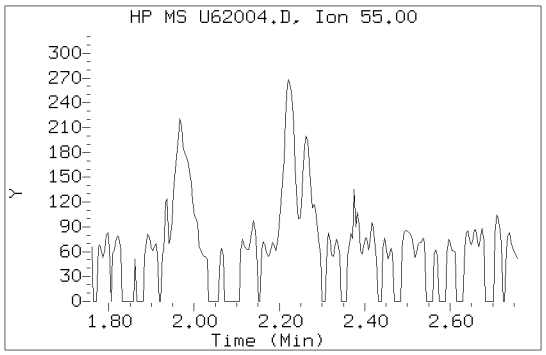
BEFORE

MASS
55
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

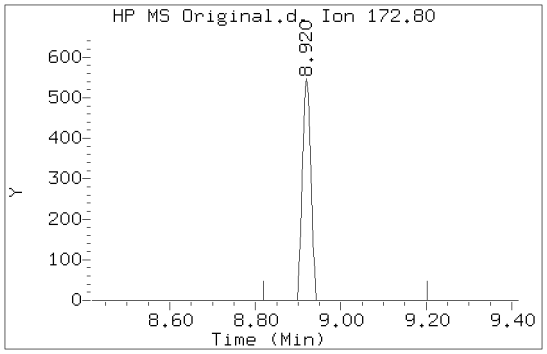


Bromoform (75-25-2)

Reason Code:

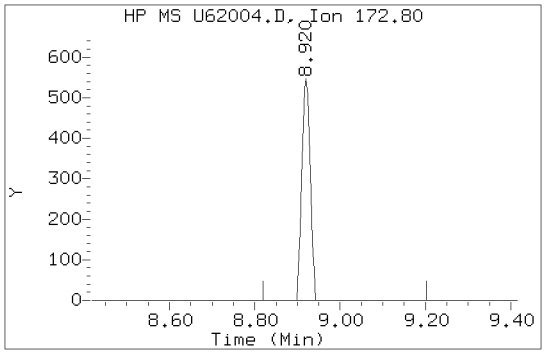
BEFORE

MASS
172.8
AREA
774
HEIGHT
547
29-Jun-2024
12:15
s
zaid



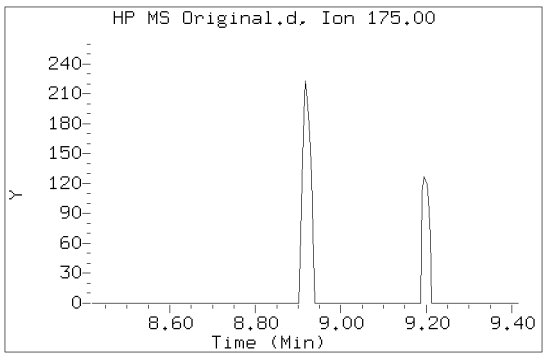
AFTER

MASS
172.8
AREA
774
HEIGHT
547
29-Jun-2024
12:15
s
zaid



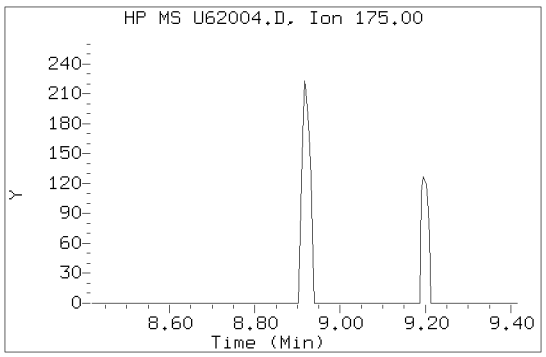
BEFORE

MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



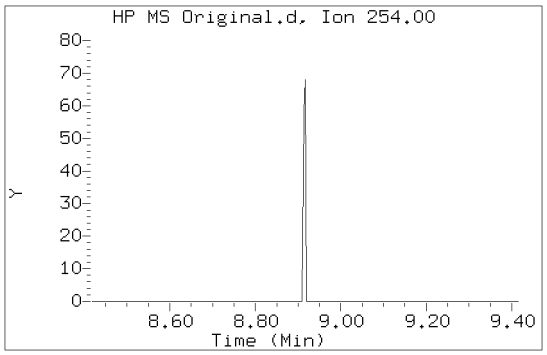
AFTER

MASS
175
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



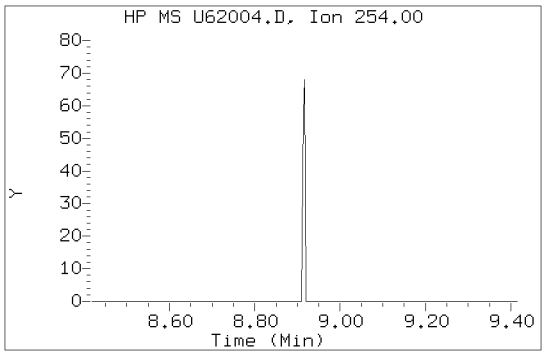
BEFORE

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



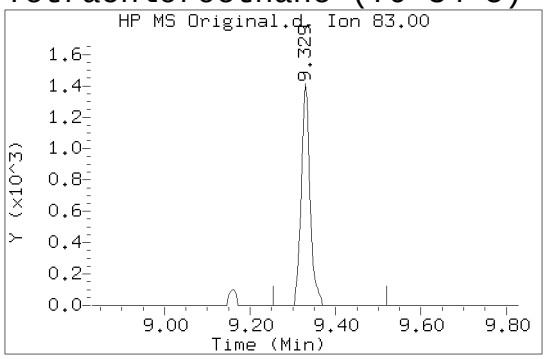
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

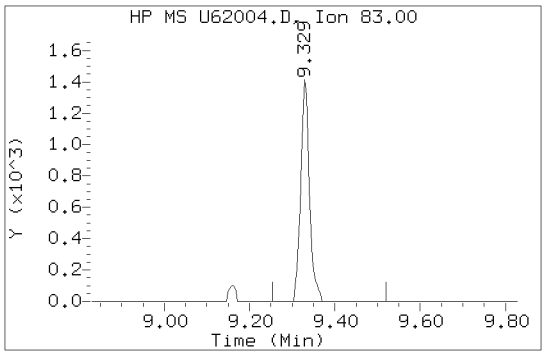
BEFORE

MASS
83
AREA
2063
HEIGHT
1414
29-Jun-2024
12:15
s
zaid



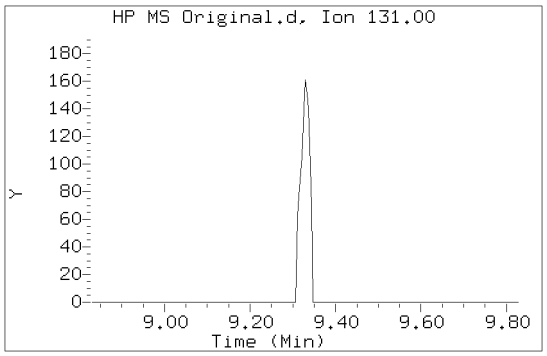
AFTER

MASS
83
AREA
2063
HEIGHT
1414
29-Jun-2024
12:15
s
zaid



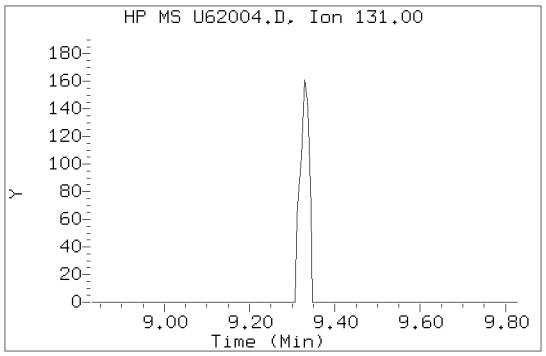
BEFORE

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



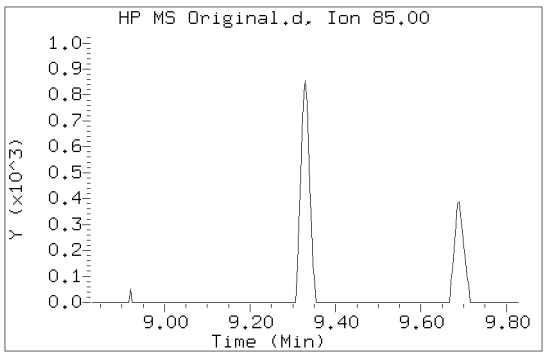
AFTER

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



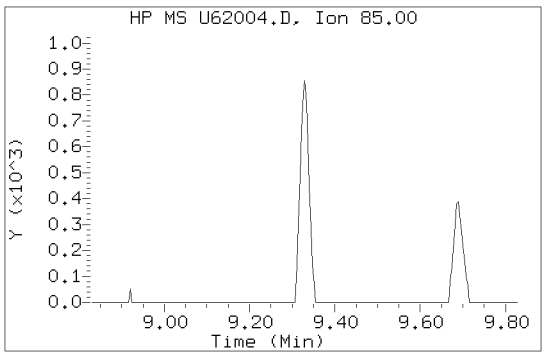
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

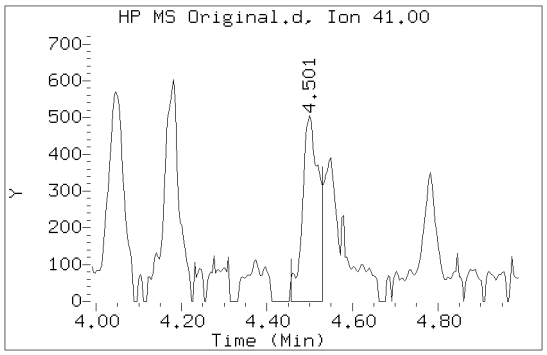


Methacrylonitrile (126-98-7)

Reason Code:

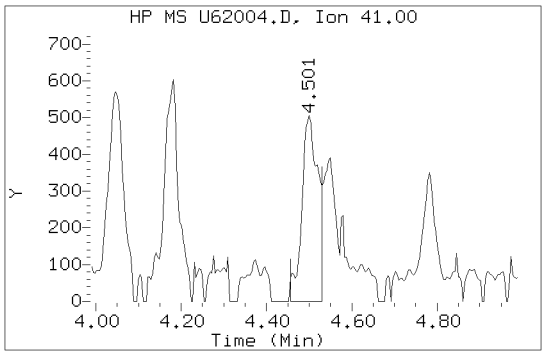
BEFORE

MASS
41
AREA
1366
HEIGHT
505
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
1366
HEIGHT
505
29-Jun-2024
12:15
s
zaid



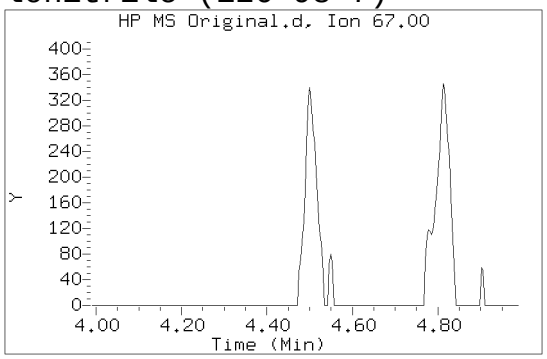
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Methacrylonitrile (126-98-7)

Reason Code:

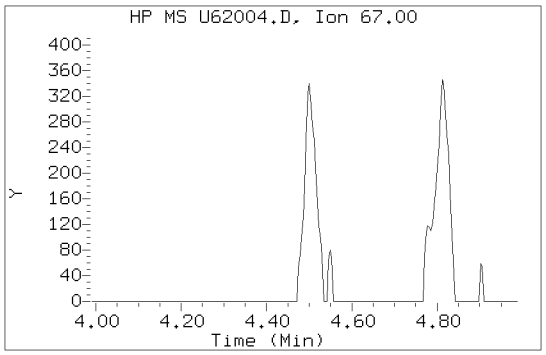
BEFORE

MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



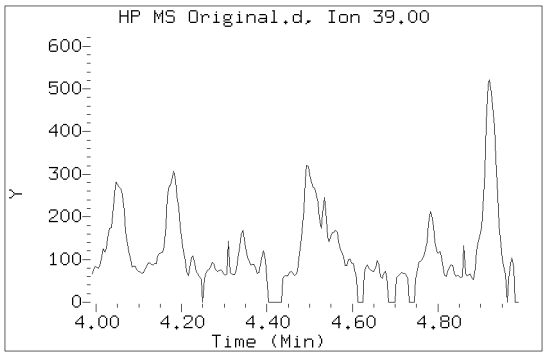
AFTER

MASS
67
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



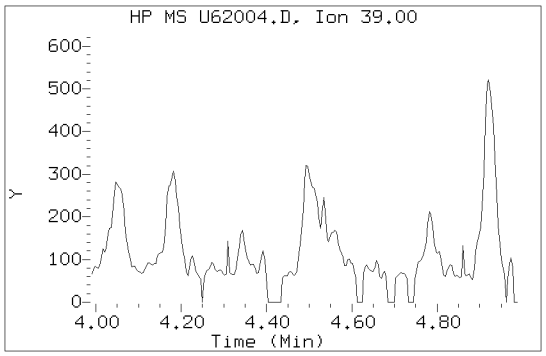
BEFORE

MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

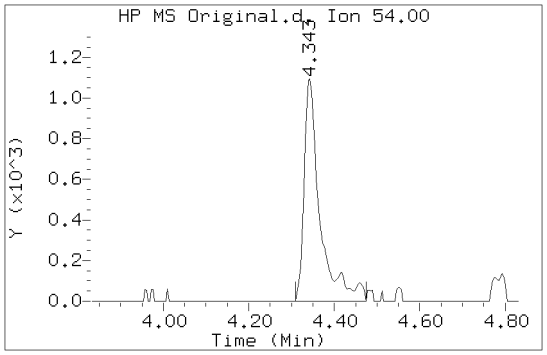


Propionitrile (107-12-0)

Reason Code:

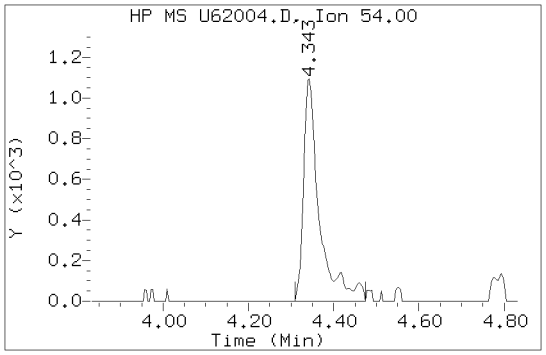
BEFORE

MASS
54
AREA
2871
HEIGHT
1094
29-Jun-2024
12:15
s
zaid



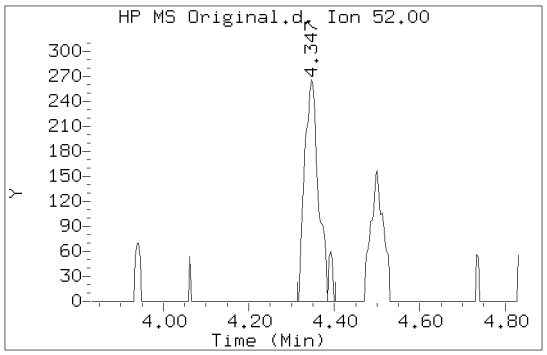
AFTER

MASS
54
AREA
2871
HEIGHT
1094
29-Jun-2024
12:15
s
zaid



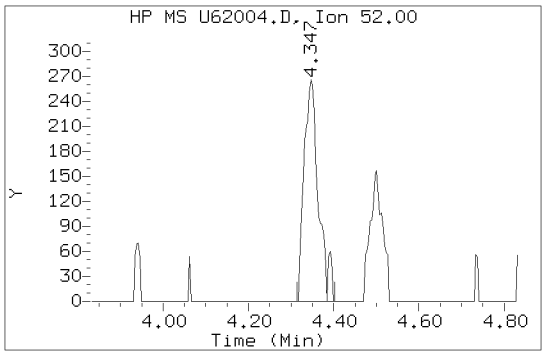
BEFORE

MASS
52
AREA
637
HEIGHT
266
29-Jun-2024
12:15
s
zaid



AFTER

MASS
52
AREA
637
HEIGHT
266
29-Jun-2024
12:15
s
zaid



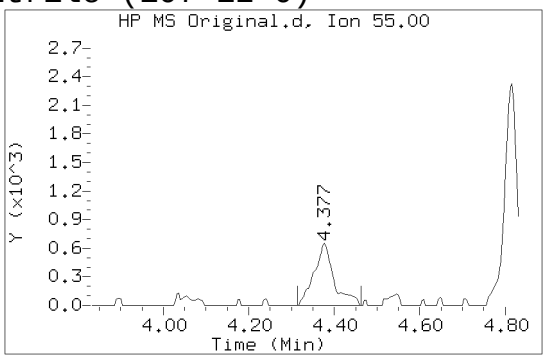
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

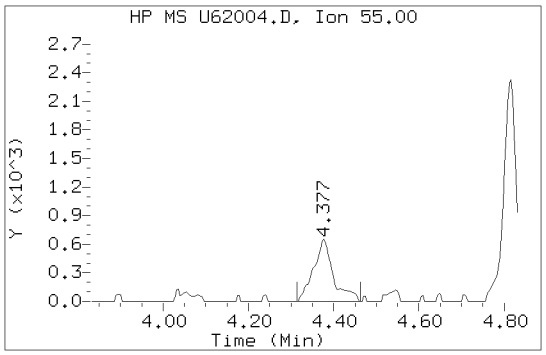
BEFORE

MASS
55
AREA
2106
HEIGHT
650
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
2106
HEIGHT
650
29-Jun-2024
12:15
s
zaid

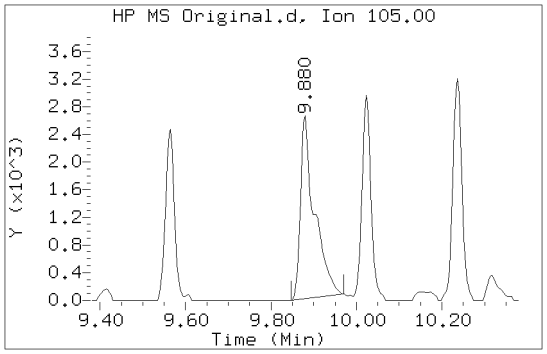


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

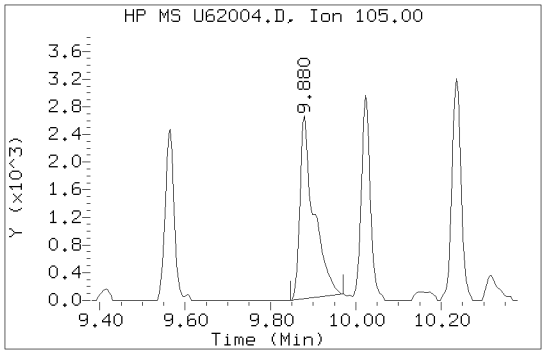
BEFORE

MASS
105
AREA
6112
HEIGHT
2642
29-Jun-2024
12:15
s
zaid



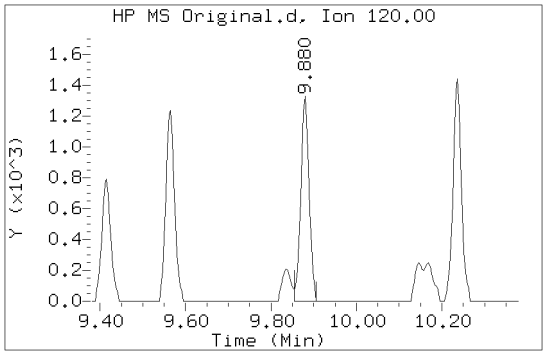
AFTER

MASS
105
AREA
6112
HEIGHT
2642
29-Jun-2024
12:15
s
zaid



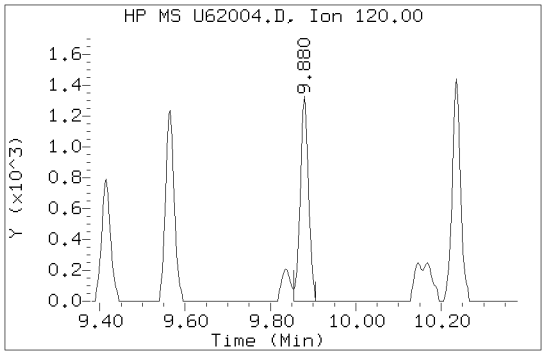
BEFORE

MASS
120
AREA
1844
HEIGHT
1329
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
1844
HEIGHT
1329
29-Jun-2024
12:15
s
zaid

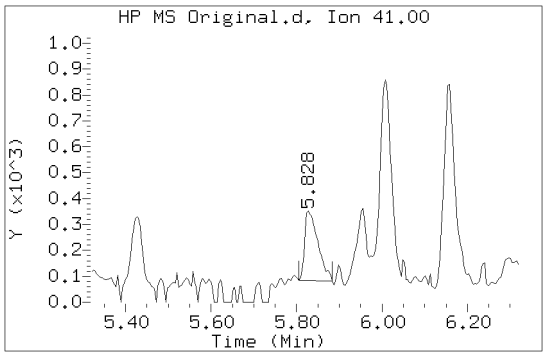


Methyl Methacrylate (80-62-6)

Reason Code:

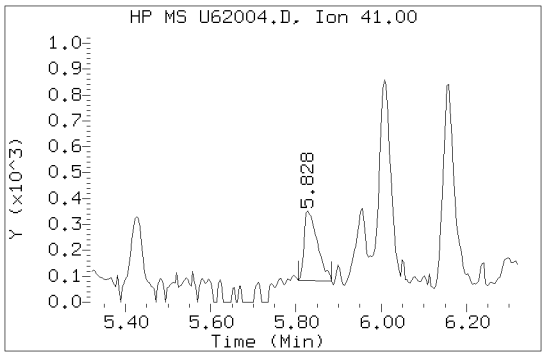
BEFORE

MASS
41
AREA
587
HEIGHT
268
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
587
HEIGHT
268
29-Jun-2024
12:15
s
zaid



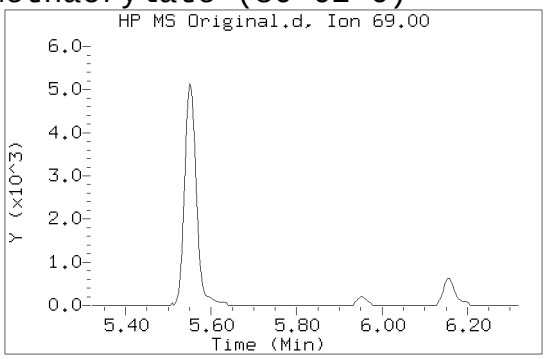
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Methyl Methacrylate (80-62-6)

Reason Code:

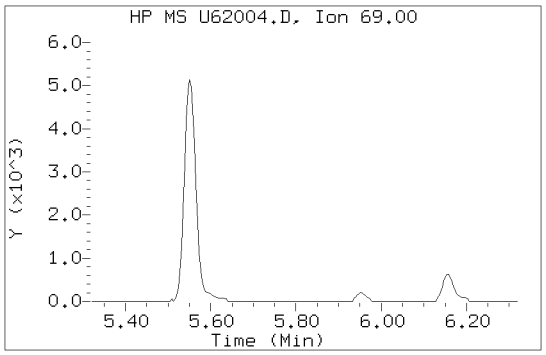
BEFORE

MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



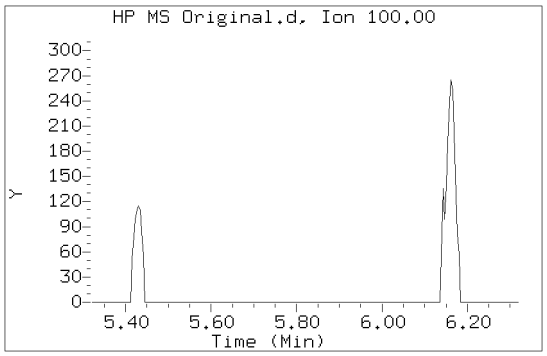
AFTER

MASS
69
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



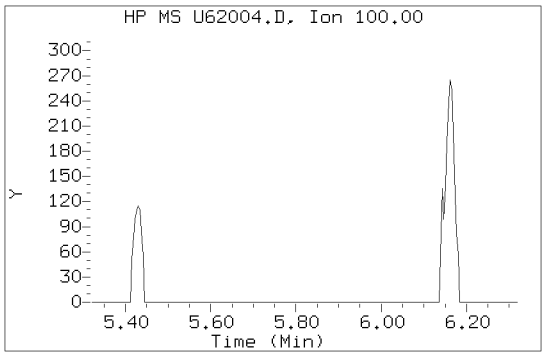
BEFORE

MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
100
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

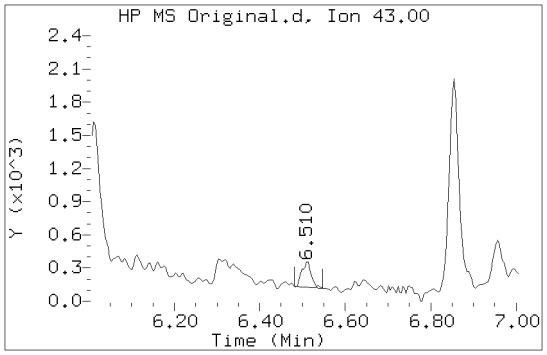


2-Nitropropane (79-46-9)

Reason Code:

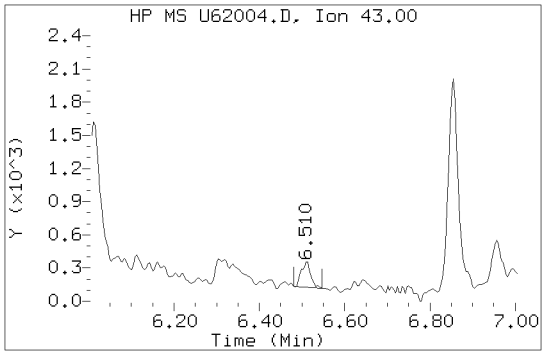
BEFORE

MASS
43
AREA
357
HEIGHT
231
29-Jun-2024
12:15
s
zaid



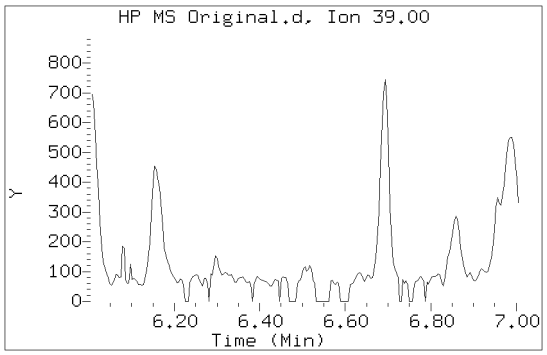
AFTER

MASS
43
AREA
357
HEIGHT
231
29-Jun-2024
12:15
s
zaid



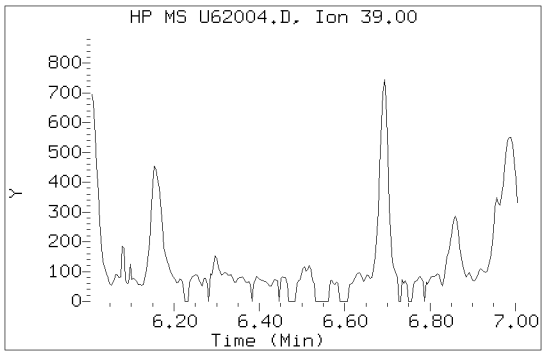
BEFORE

MASS
39
AREA
1379
HEIGHT
471
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
1379
HEIGHT
471
29-Jun-2024
12:15
s
zaid



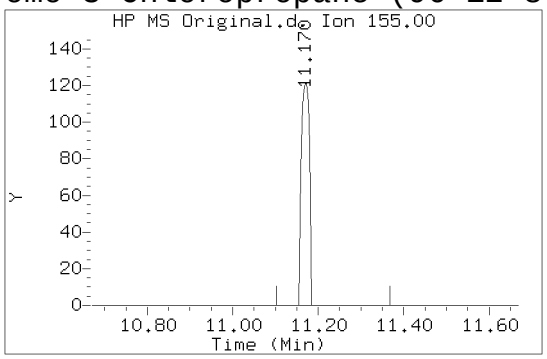
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

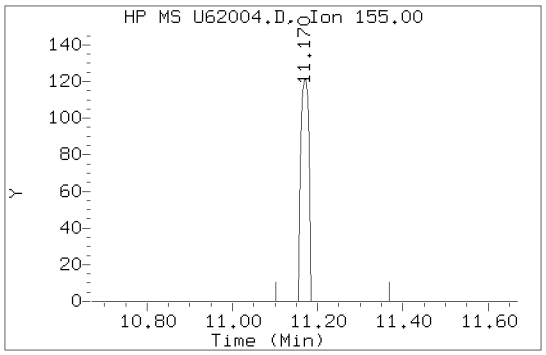
BEFORE

MASS
155
AREA
163
HEIGHT
121
29-Jun-2024
12:15
s
zaid



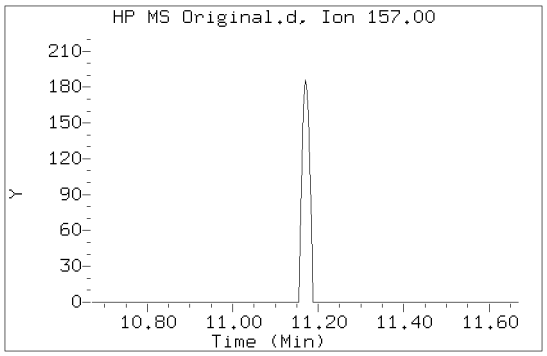
AFTER

MASS
155
AREA
163
HEIGHT
121
29-Jun-2024
12:15
s
zaid



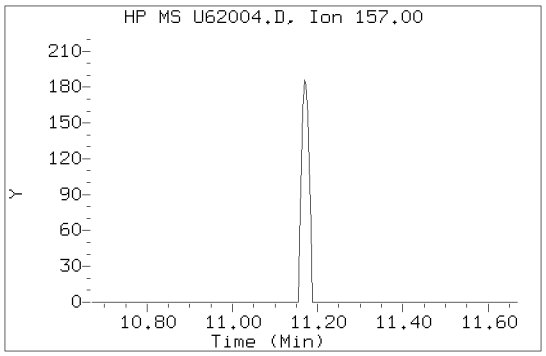
BEFORE

MASS
157
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



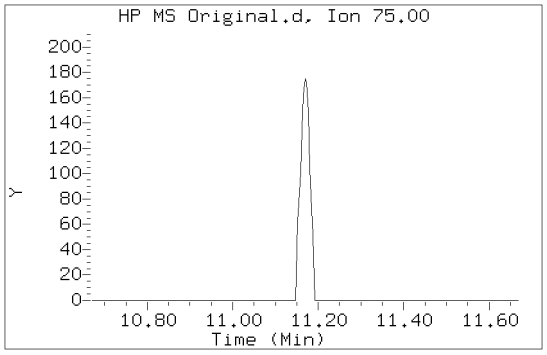
AFTER

MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



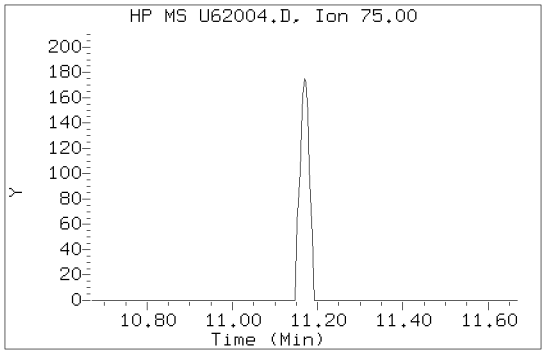
BEFORE

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

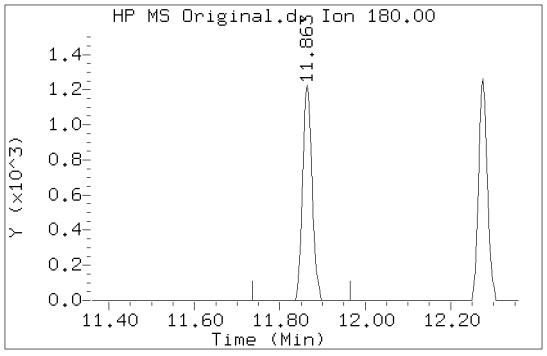


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

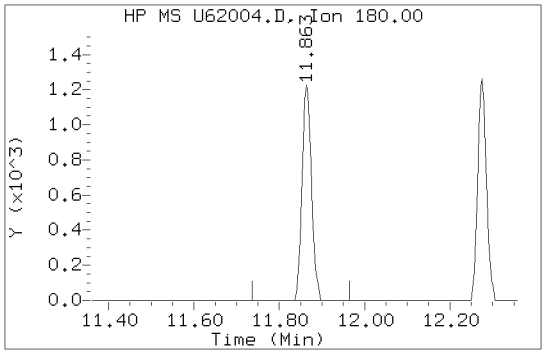
BEFORE

MASS
180
AREA
1929
HEIGHT
1227
29-Jun-2024
12:15
s
zaid



AFTER

MASS
180
AREA
1929
HEIGHT
1227
29-Jun-2024
12:15
s
zaid



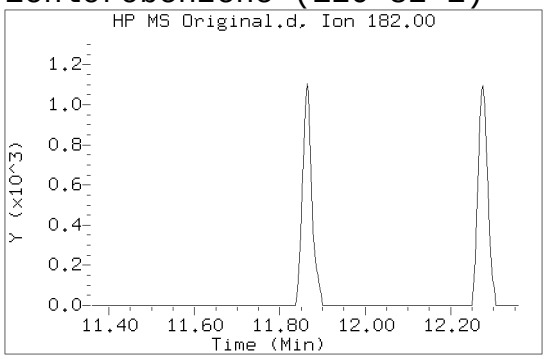
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

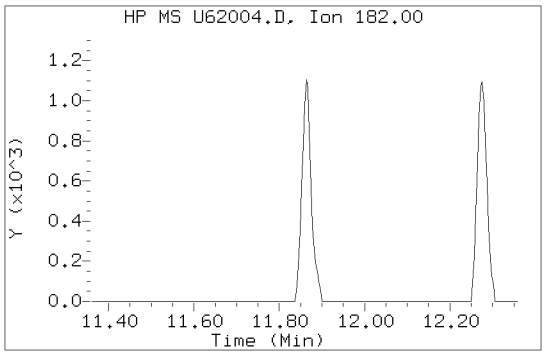
BEFORE

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



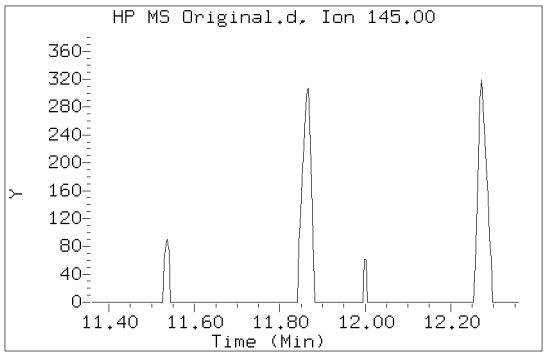
AFTER

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



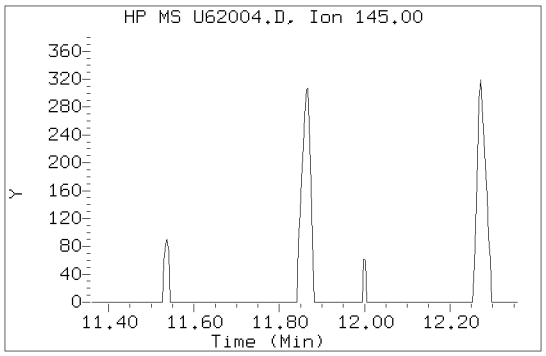
BEFORE

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

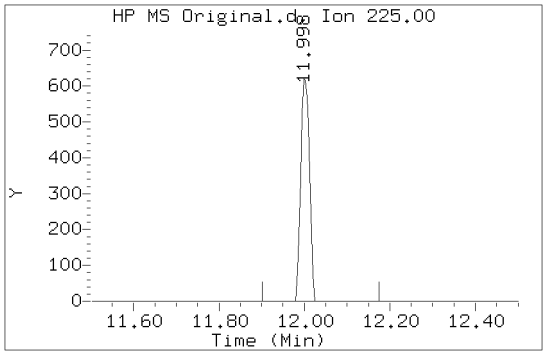


Hexachlorobutadiene (87-68-3)

Reason Code:

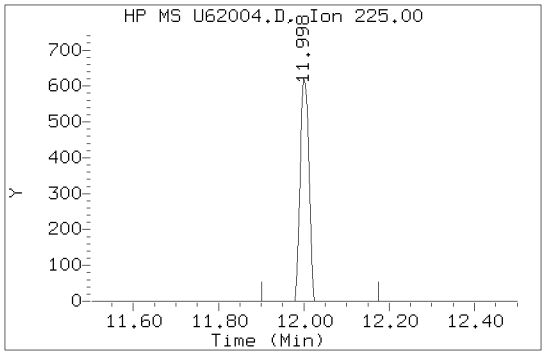
BEFORE

MASS
225
AREA
909
HEIGHT
620
29-Jun-2024
12:15
s
zaid



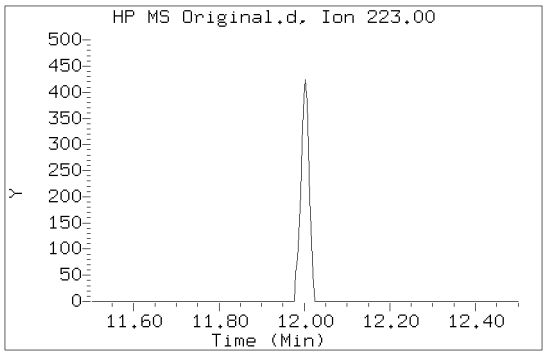
AFTER

MASS
225
AREA
909
HEIGHT
620
29-Jun-2024
12:15
s
zaid



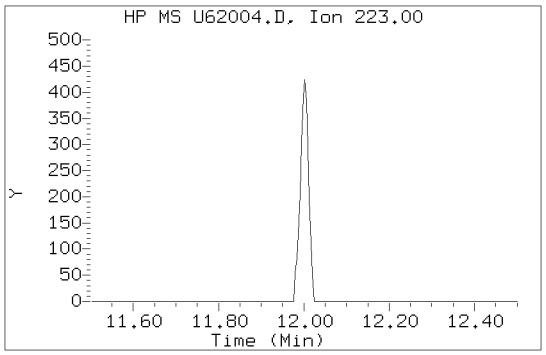
BEFORE

MASS
223
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
223
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



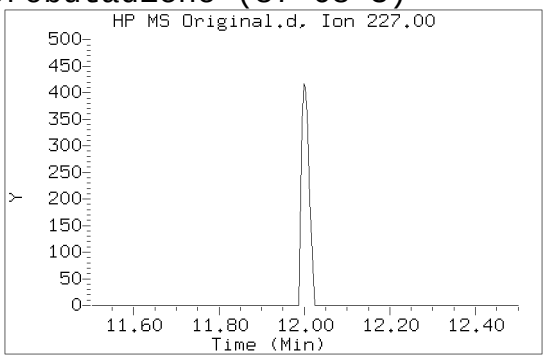
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

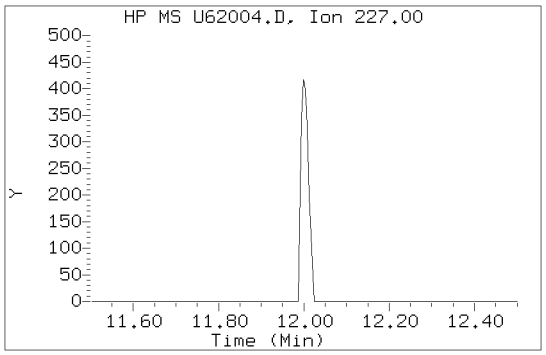
BEFORE

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
227
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

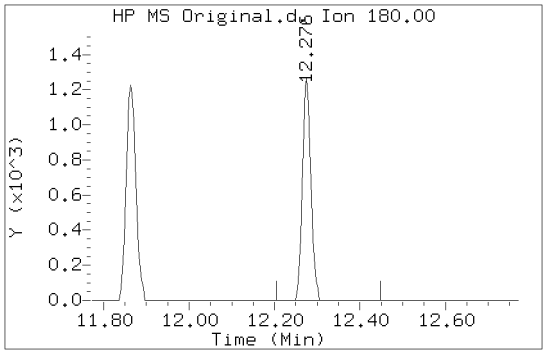


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

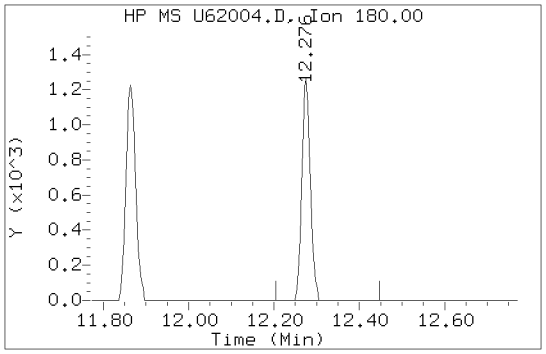
BEFORE

MASS
180
AREA
1793
HEIGHT
1263
29-Jun-2024
12:15
s
zaid



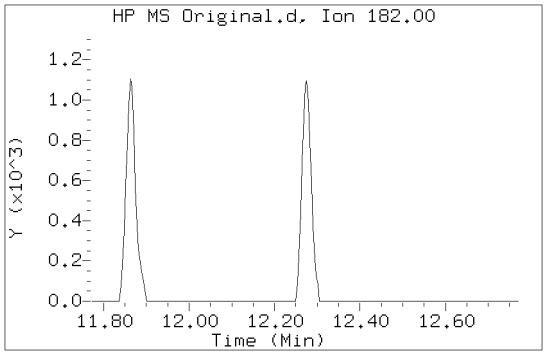
AFTER

MASS
180
AREA
1793
HEIGHT
1263
29-Jun-2024
12:15
s
zaid



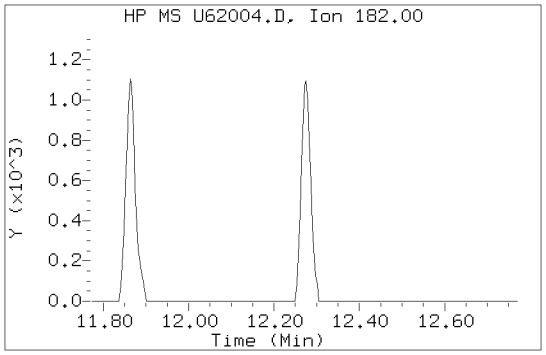
BEFORE

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



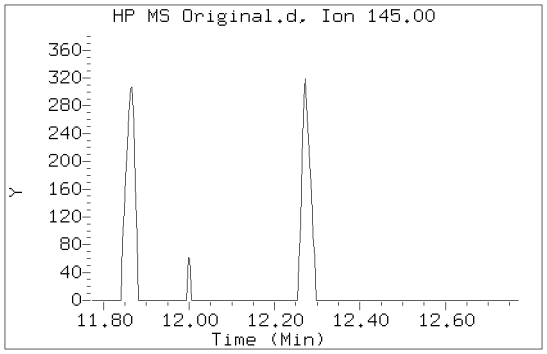
AFTER

MASS
182
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



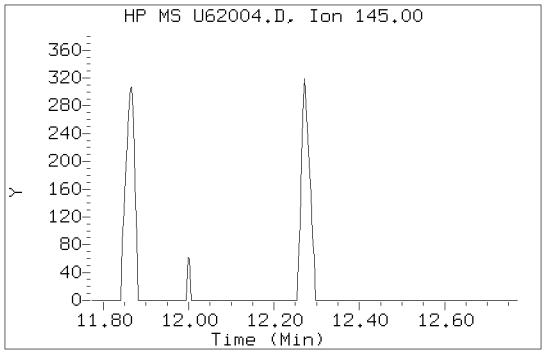
BEFORE

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
145
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



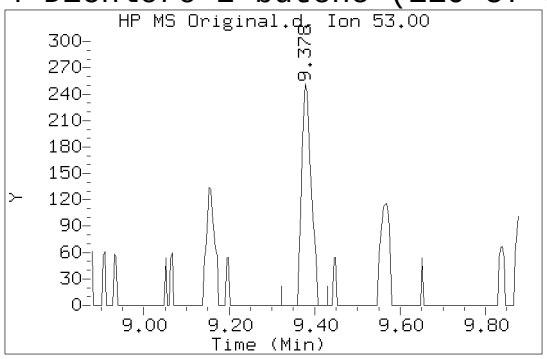
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

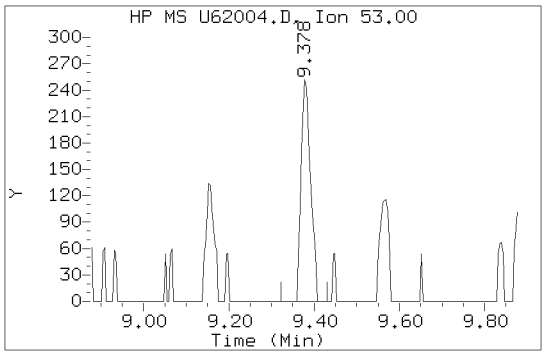
BEFORE

MASS
53
AREA
399
HEIGHT
252
29-Jun-2024
12:15
s
zaid



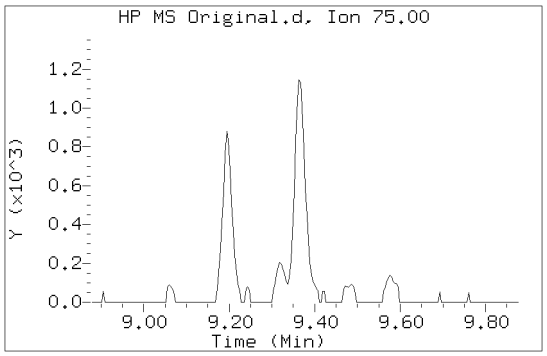
AFTER

MASS
53
AREA
399
HEIGHT
252
29-Jun-2024
12:15
s
zaid



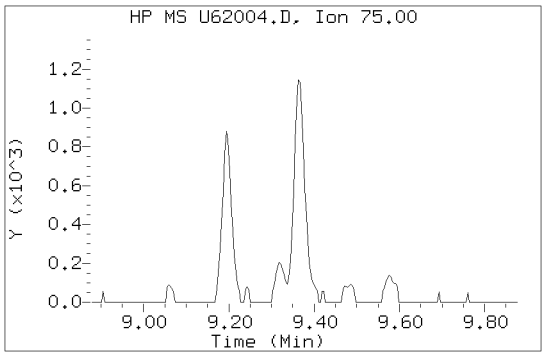
BEFORE

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

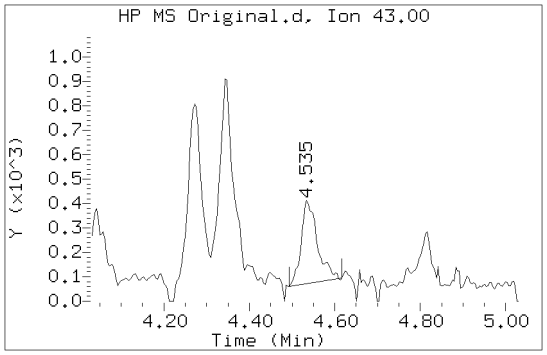


Ethyl Acetate (141-78-6)

Reason Code:

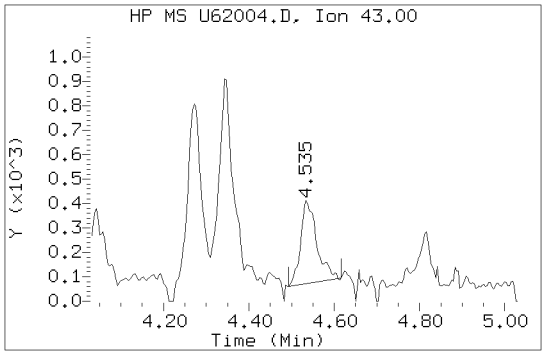
BEFORE

MASS
43
AREA
903
HEIGHT
341
29-Jun-2024
12:15
s
zaid



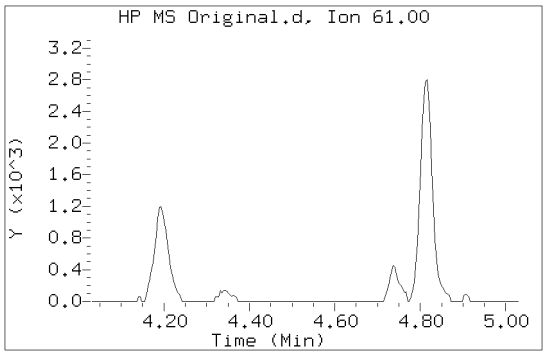
AFTER

MASS
43
AREA
903
HEIGHT
341
29-Jun-2024
12:15
s
zaid



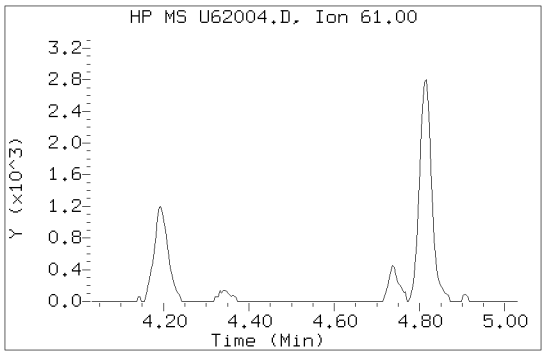
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



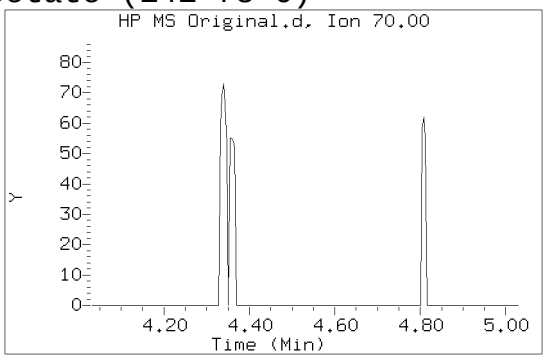
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

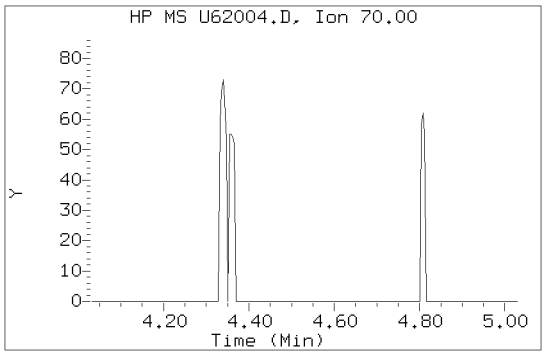
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

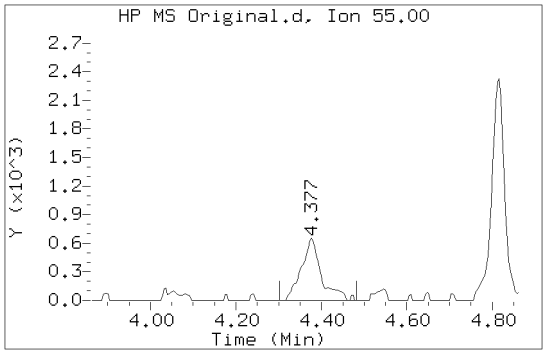


Methyl Acrylate (96-33-3)

Reason Code:

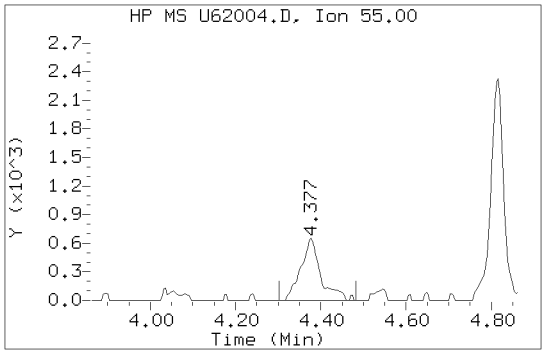
BEFORE

MASS
55
AREA
2131
HEIGHT
650
29-Jun-2024
12:15
s
zaid



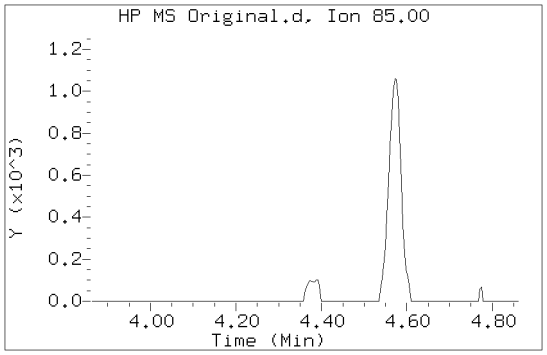
AFTER

MASS
55
AREA
2131
HEIGHT
650
29-Jun-2024
12:15
s
zaid



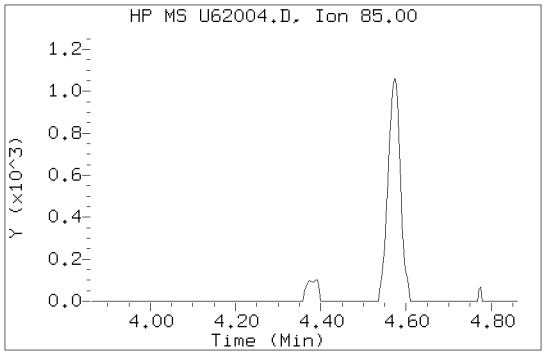
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

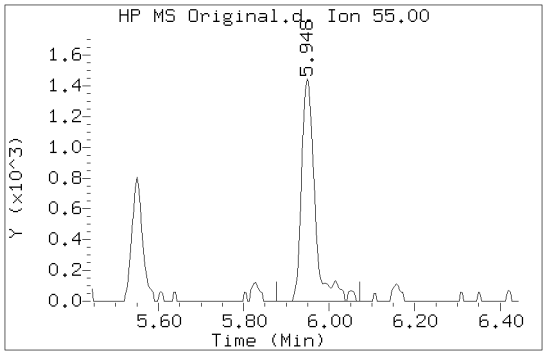


Ethyl Acrylate (140-88-5)

Reason Code:

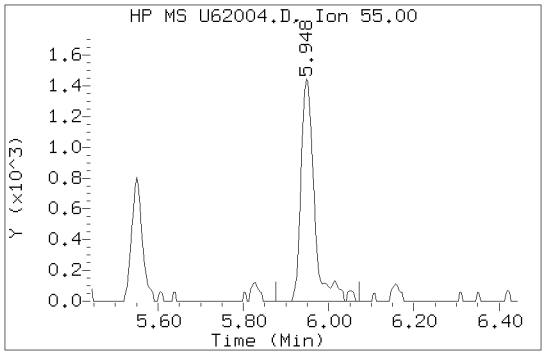
BEFORE

MASS
55
AREA
3253
HEIGHT
1445
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
3253
HEIGHT
1445
29-Jun-2024
12:15
s
zaid



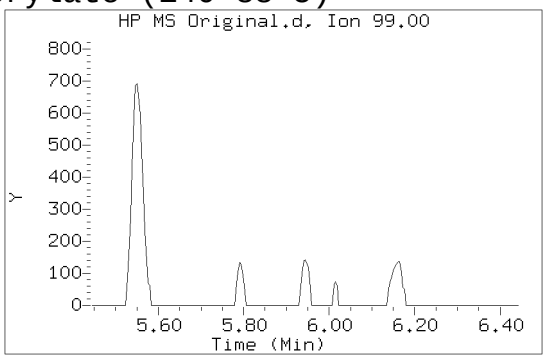
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62004.D
Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

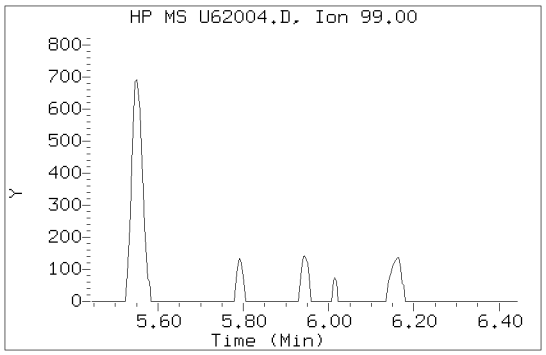
BEFORE

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

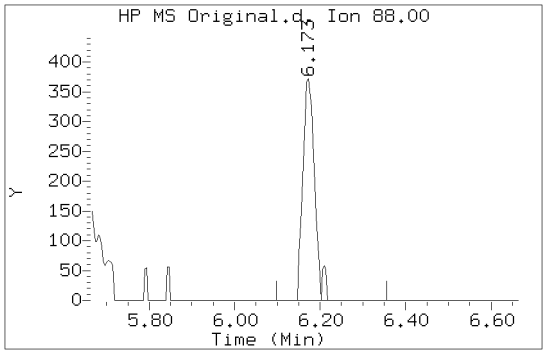


1,4-Dioxane ()

Reason Code:

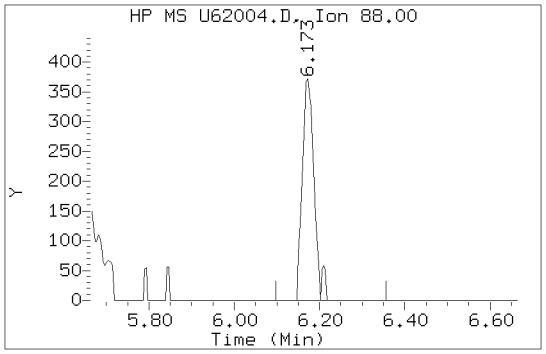
BEFORE

MASS
88
AREA
731
HEIGHT
372
29-Jun-2024
12:15
s
zaid



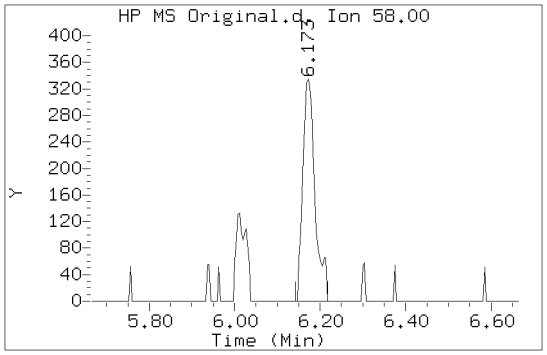
AFTER

MASS
88
AREA
731
HEIGHT
372
29-Jun-2024
12:15
s
zaid



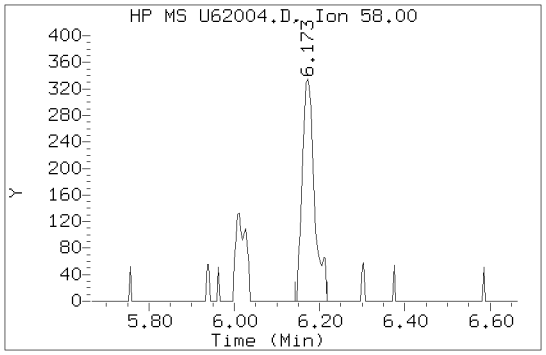
BEFORE

MASS
58
AREA
671
HEIGHT
335
29-Jun-2024
12:15
s
zaid



AFTER

MASS
58
AREA
671
HEIGHT
335
29-Jun-2024
12:15
s
zaid

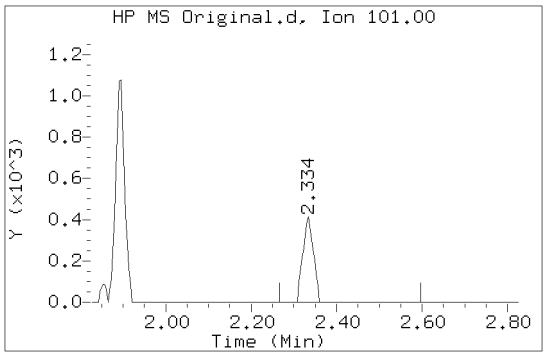


Freon TF (76-13-1)

Reason Code:

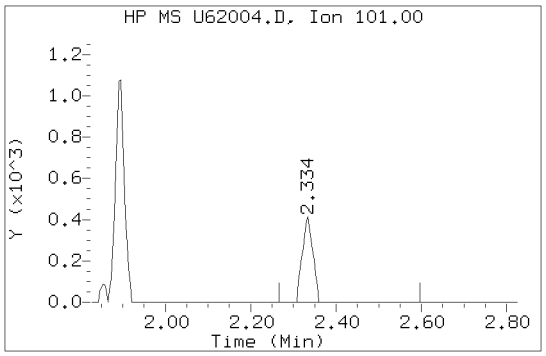
BEFORE

MASS
101
AREA
725
HEIGHT
414
29-Jun-2024
12:15
s
zaid



AFTER

MASS
101
AREA
725
HEIGHT
414
29-Jun-2024
12:15
s
zaid



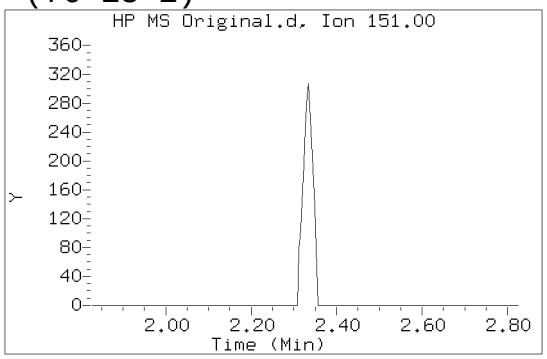
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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Freon TF (76-13-1)

Reason Code:

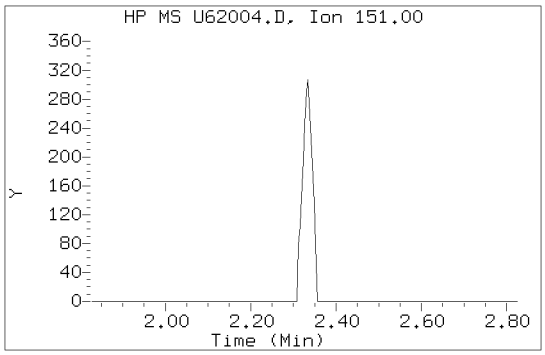
BEFORE

MASS
151
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
151
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

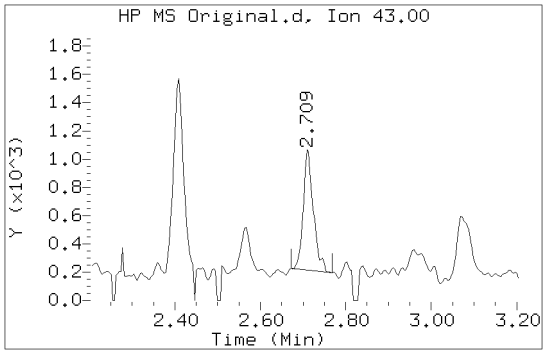


Methyl acetate (79-20-9)

Reason Code:

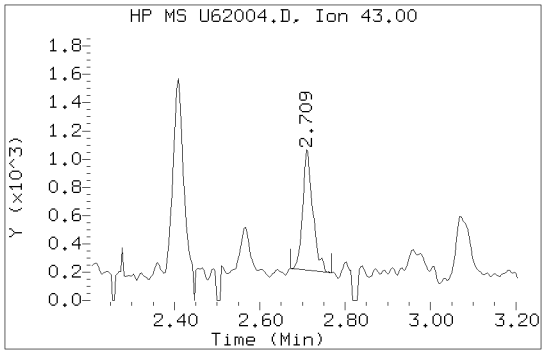
BEFORE

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AREA
1432
HEIGHT
850
29-Jun-2024
12:15
s
zaid



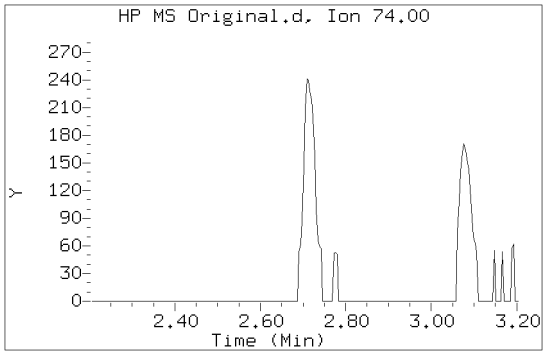
AFTER

MASS
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AREA
1432
HEIGHT
850
29-Jun-2024
12:15
s
zaid



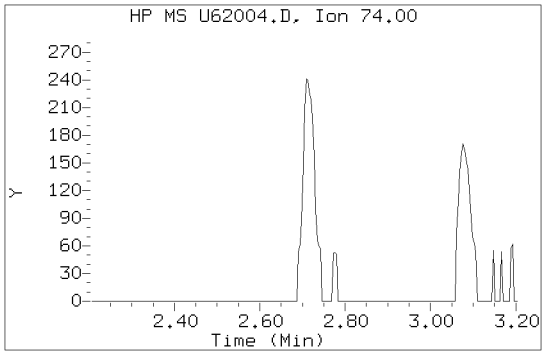
BEFORE

MASS
74
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

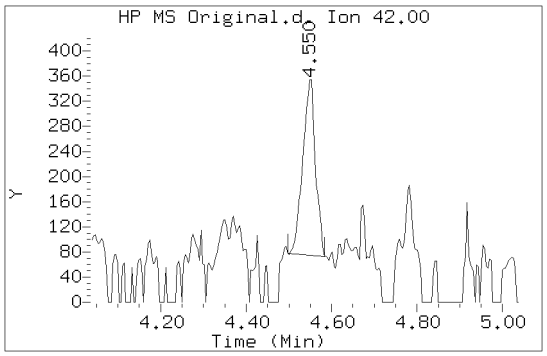


Tetrahydrofuran (109-99-9)

Reason Code:

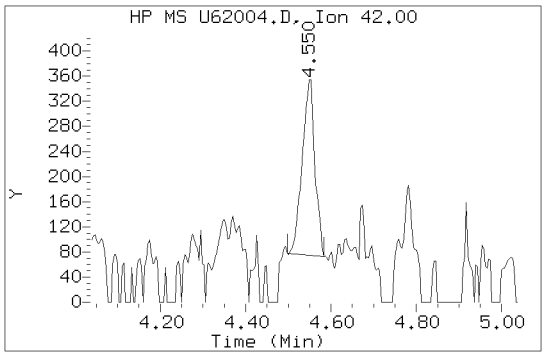
BEFORE

MASS
42
AREA
580
HEIGHT
279
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
580
HEIGHT
279
29-Jun-2024
12:15
s
zaid



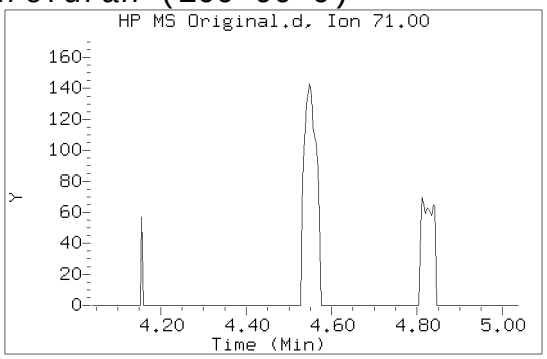
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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

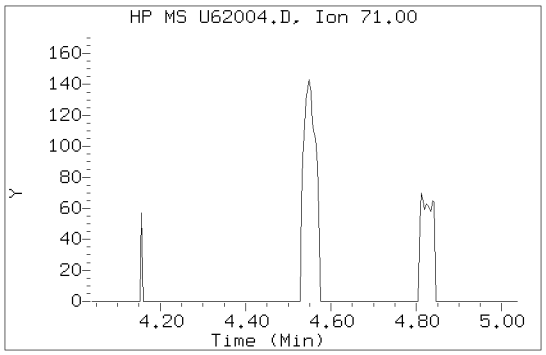
BEFORE

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

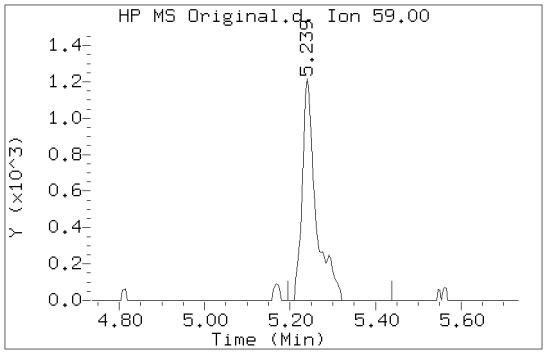


tert-Butyl formate (762-75-4)

Reason Code:

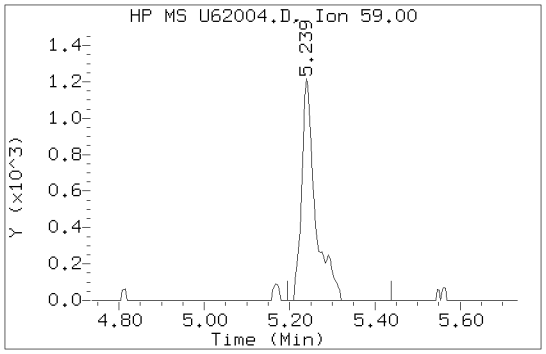
BEFORE

MASS
59
AREA
2782
HEIGHT
1217
29-Jun-2024
12:15
s
zaid



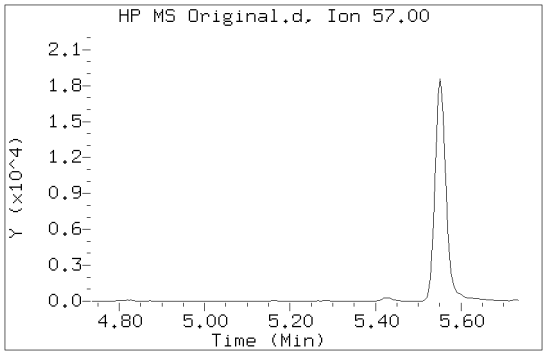
AFTER

MASS
59
AREA
2782
HEIGHT
1217
29-Jun-2024
12:15
s
zaid



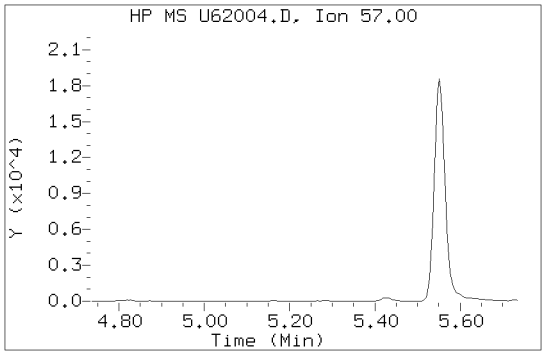
BEFORE

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



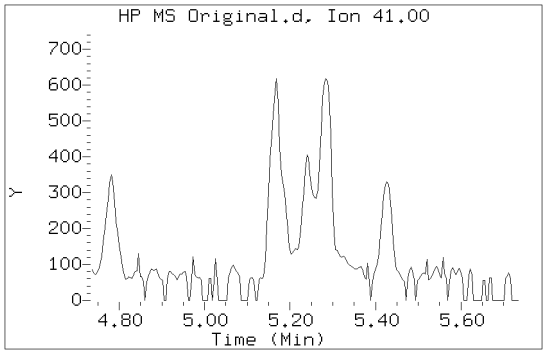
AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



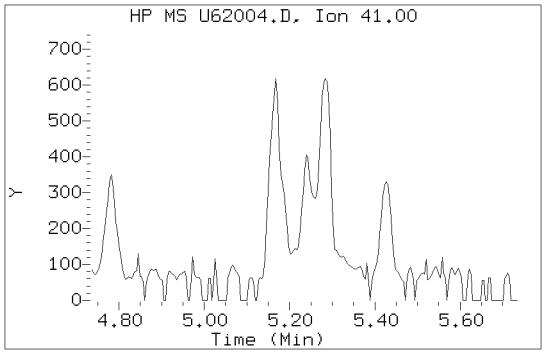
BEFORE

MASS
41
AREA
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HEIGHT
0
29-Jun-2024
12:15
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zaid



AFTER

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AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



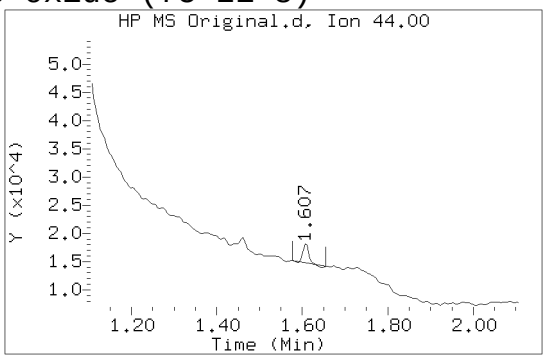
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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Ethylene oxide (75-21-8)

Reason Code:

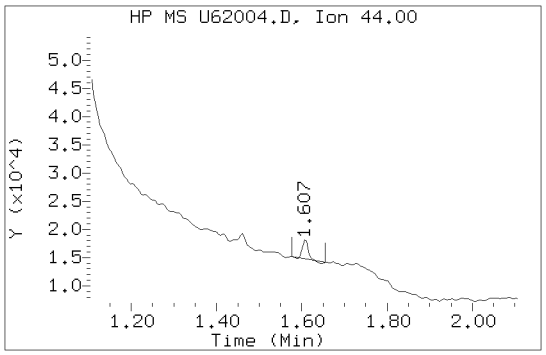
BEFORE

MASS
44
AREA
2844
HEIGHT
3414
29-Jun-2024
12:15
s
zaid



AFTER

MASS
44
AREA
2844
HEIGHT
3414
29-Jun-2024
12:15
s
zaid

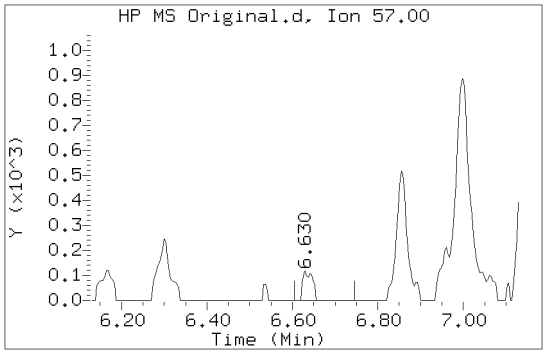


Epichlorohydrin (106-89-8)

Reason Code:

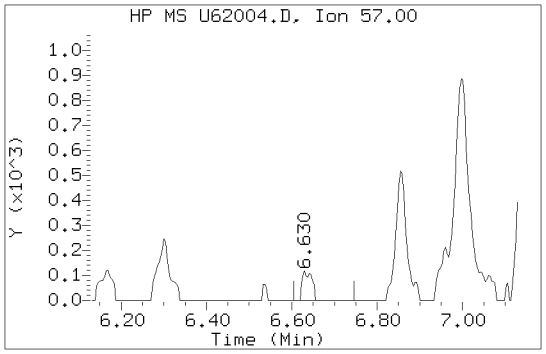
BEFORE

MASS
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AREA
188
HEIGHT
117
29-Jun-2024
12:15
s
zaid



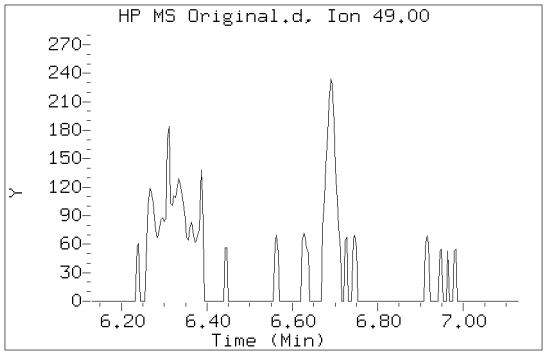
AFTER

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AREA
188
HEIGHT
117
29-Jun-2024
12:15
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zaid



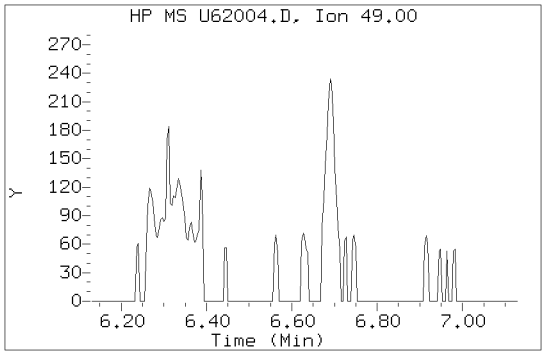
BEFORE

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HEIGHT
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29-Jun-2024
12:15
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zaid



AFTER

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AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid

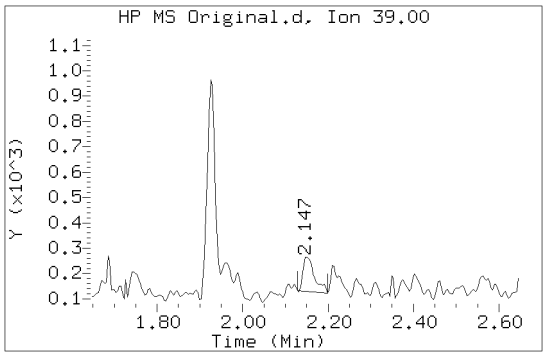


Isoprene (78-79-5)

Reason Code:

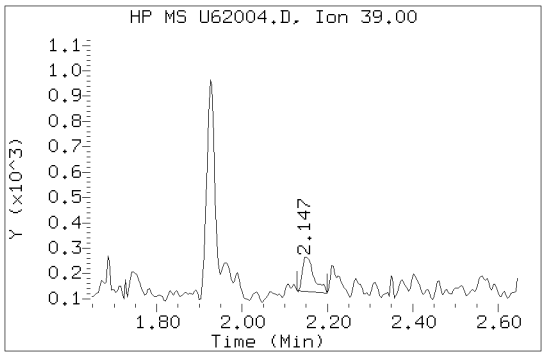
BEFORE

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39
AREA
260
HEIGHT
134
29-Jun-2024
12:15
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zaid



AFTER

MASS
39
AREA
260
HEIGHT
134
29-Jun-2024
12:15
s
zaid



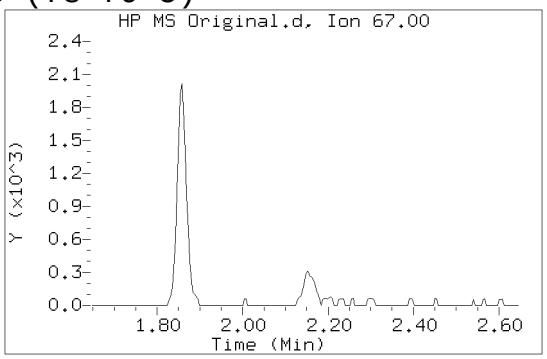
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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

Isoprene (78-79-5)

Reason Code:

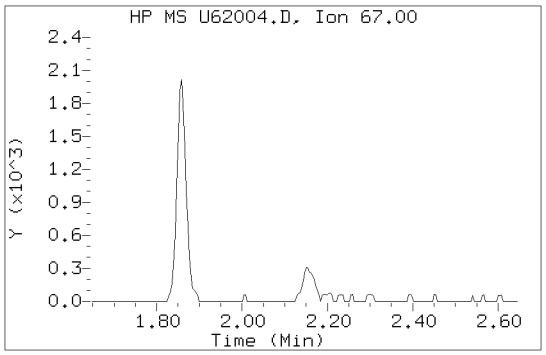
BEFORE

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HEIGHT
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29-Jun-2024
12:15
s
zaid



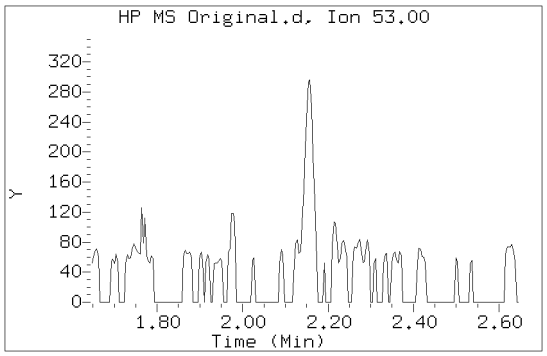
AFTER

MASS
67
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0
HEIGHT
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29-Jun-2024
12:15
s
zaid



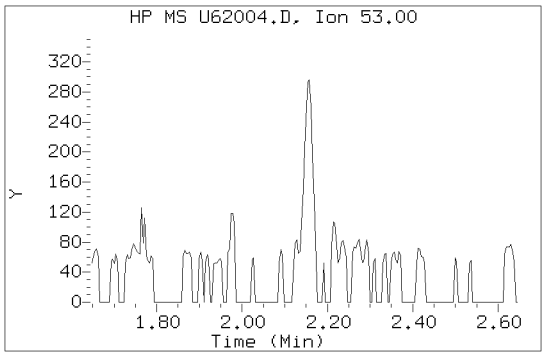
BEFORE

MASS
53
AREA
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29-Jun-2024
12:15
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zaid



AFTER

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HEIGHT
0
29-Jun-2024
12:15
s
zaid

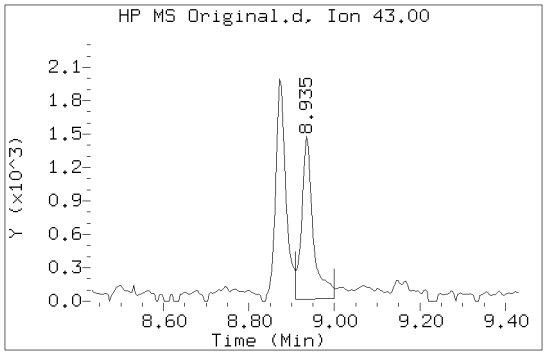


n-Amyl acetate (628-63-7)

Reason Code:

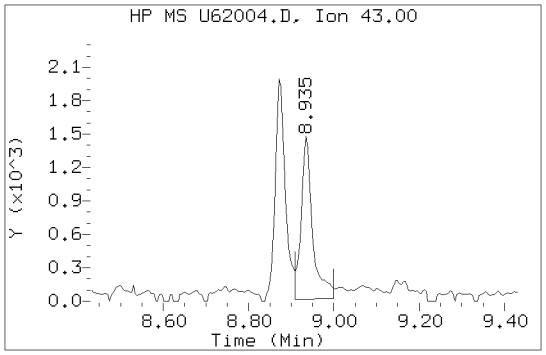
BEFORE

MASS
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AREA
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HEIGHT
1462
29-Jun-2024
12:15
s
zaid



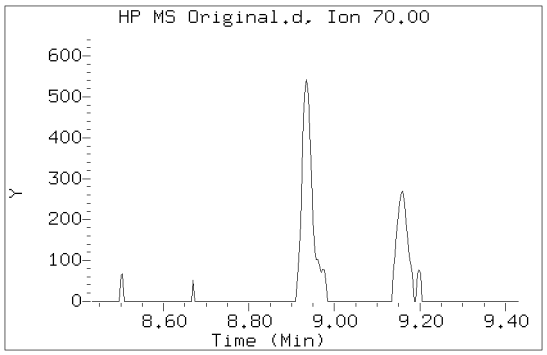
AFTER

MASS
43
AREA
2778
HEIGHT
1462
29-Jun-2024
12:15
s
zaid



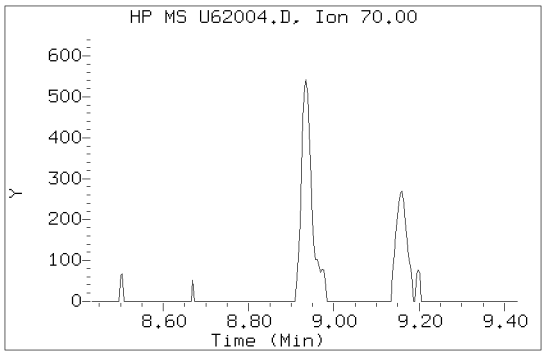
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

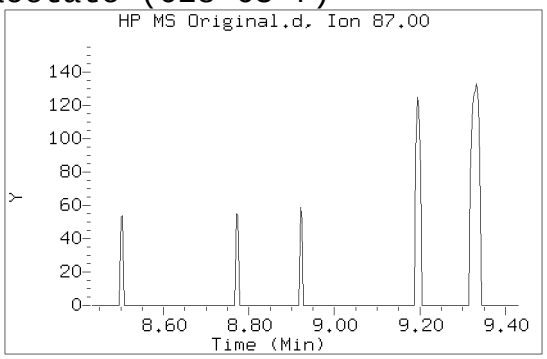


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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

BEFORE

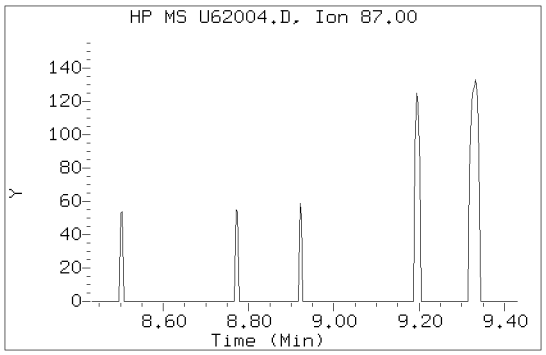
MASS
87
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER

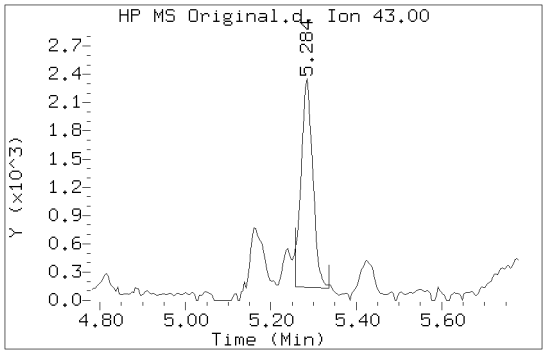
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AREA
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HEIGHT
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29-Jun-2024
12:15
s
zaid



Isopropyl acetate (108-21-4)

BEFORE

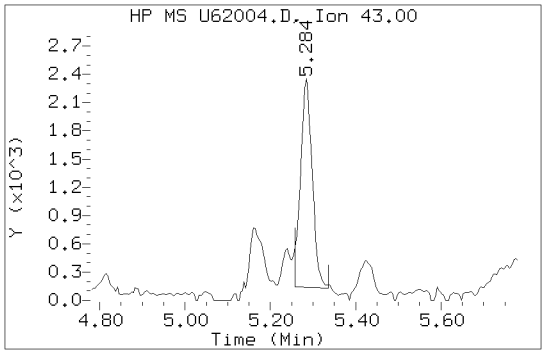
MASS
43
AREA
4316
HEIGHT
2215
29-Jun-2024
12:15
s
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Reason Code:

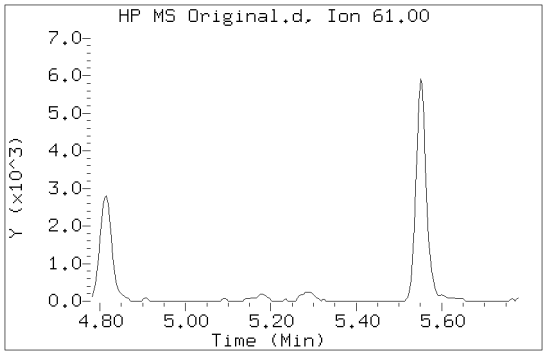
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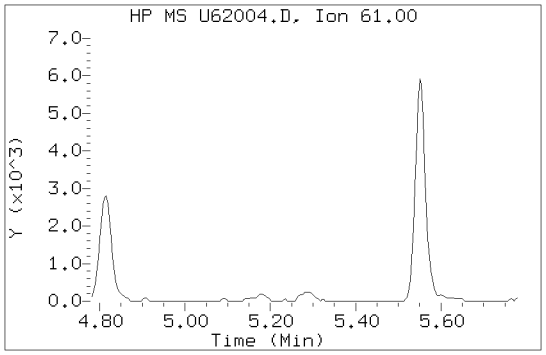
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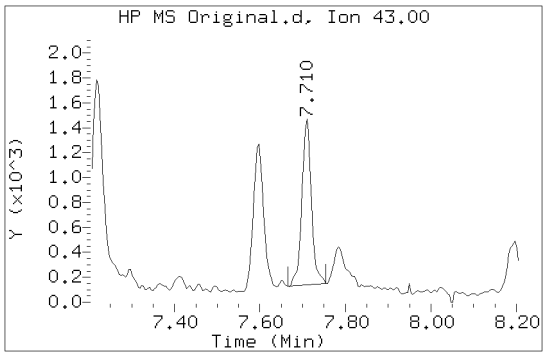
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n-Butyl acetate (123-86-4)

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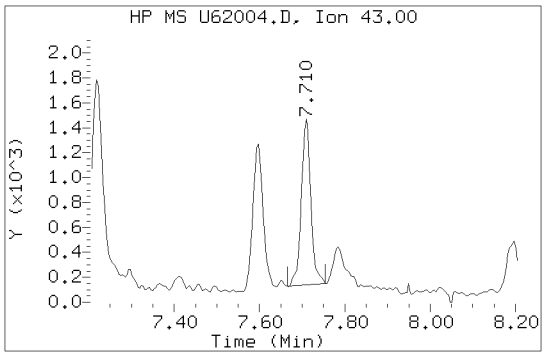
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Reason Code:

AFTER

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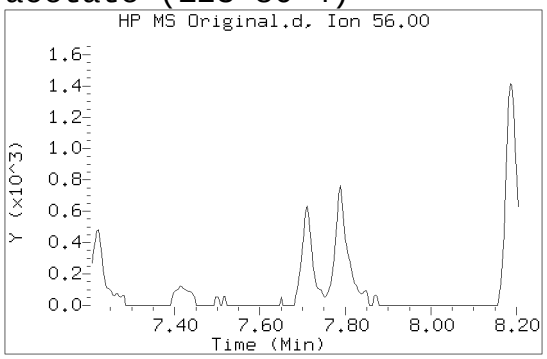
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InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

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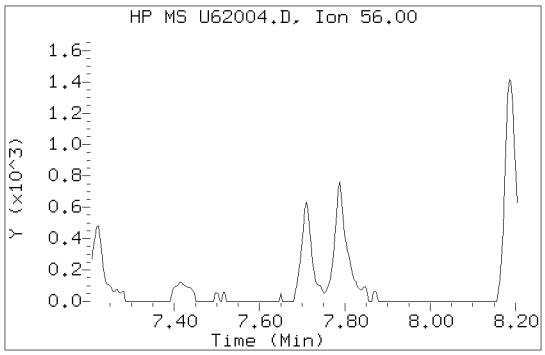
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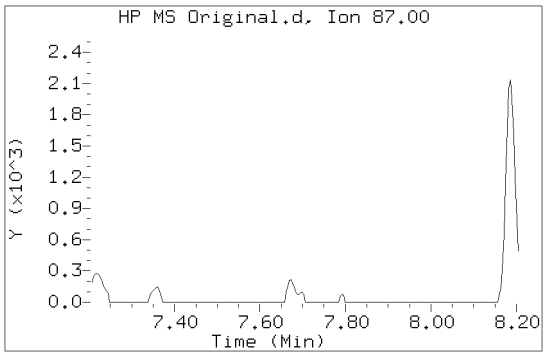
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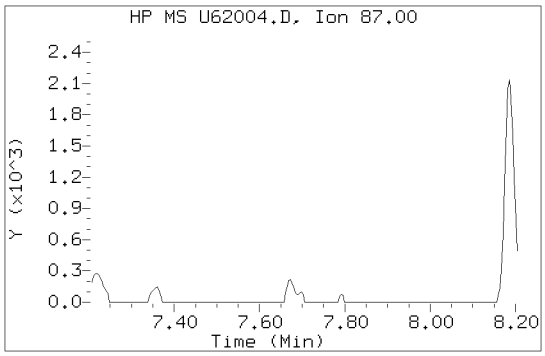
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AFTER

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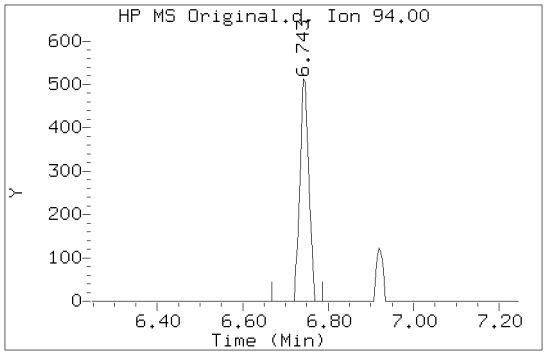


Dimethyl Disulfide (624-92-0)

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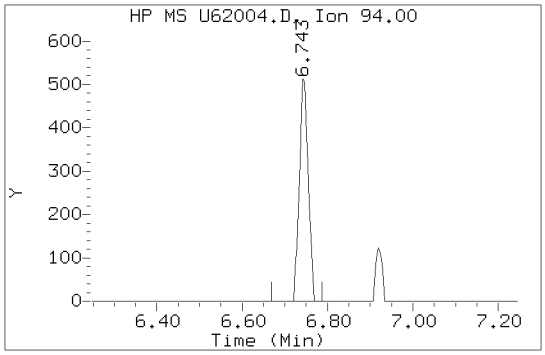
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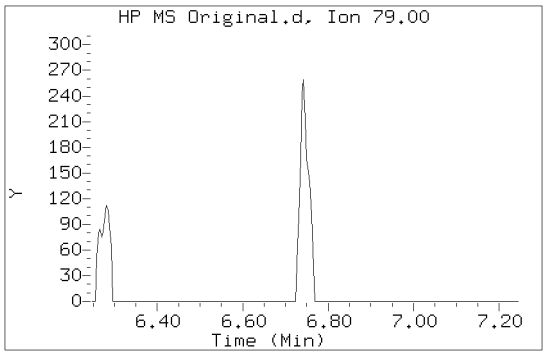
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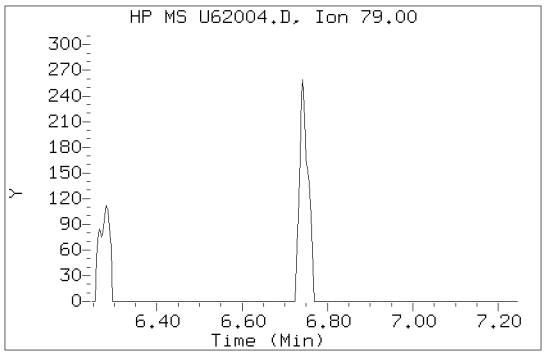
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AFTER

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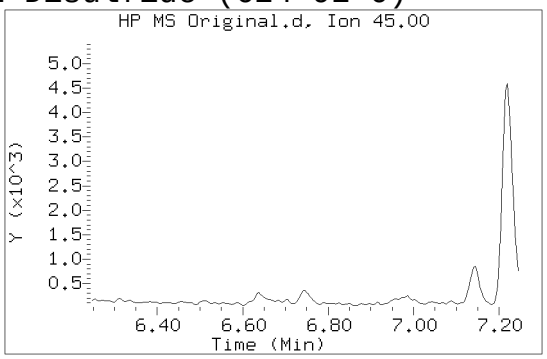
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InstruID : VOA9.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

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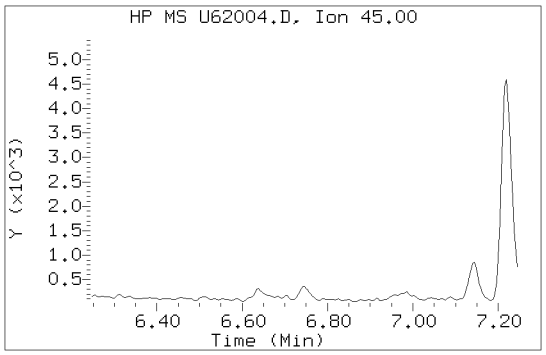
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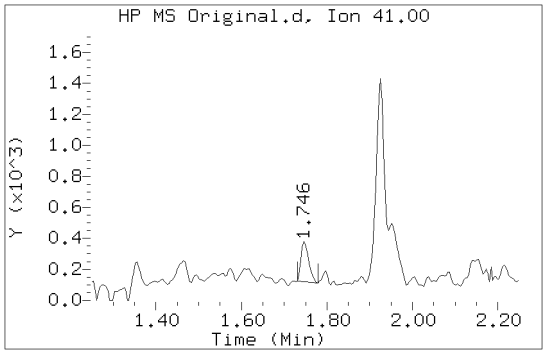


Isobutylene (115-11-7)

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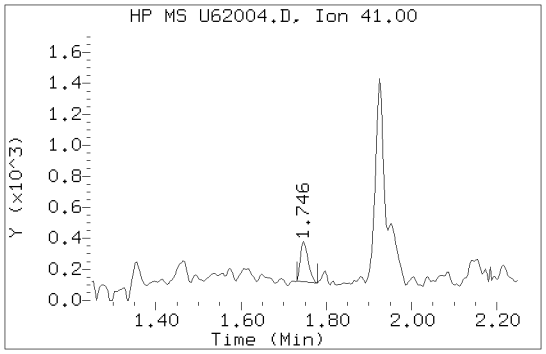
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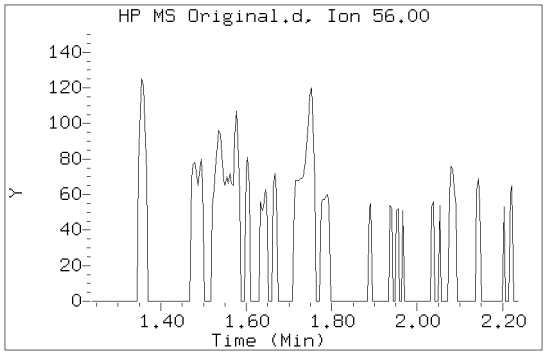
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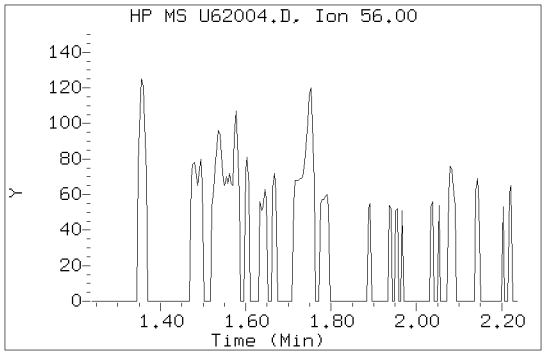
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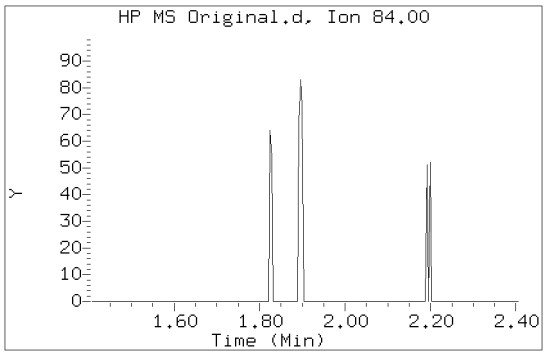
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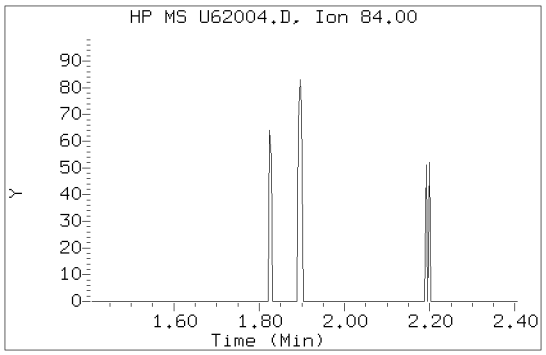
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AFTER

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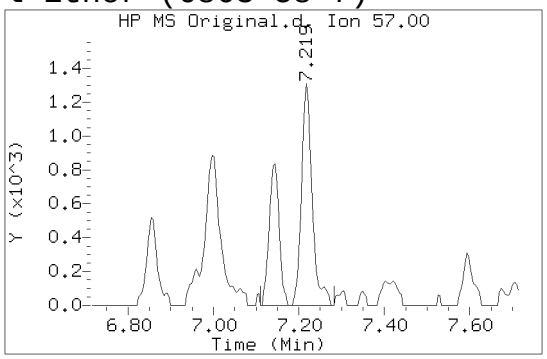
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Inj Date : 20-JUN-2024 12:06
InstruID : VOA9.i
LabSampID : VSTD001

sec-Butyl Ether (6863-58-7)

Reason Code:

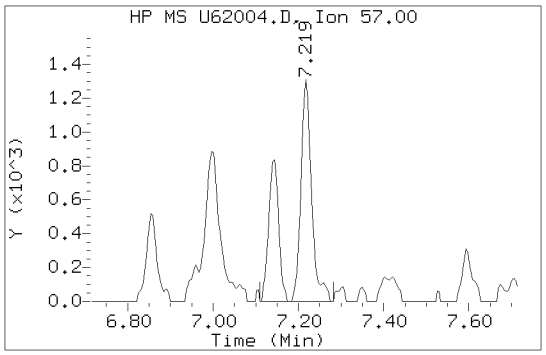
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AFTER

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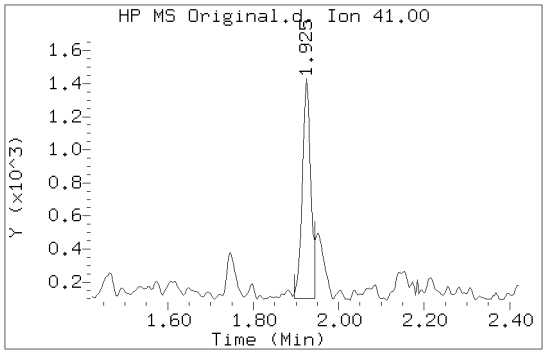


2-Chloropropene (557-98-2)

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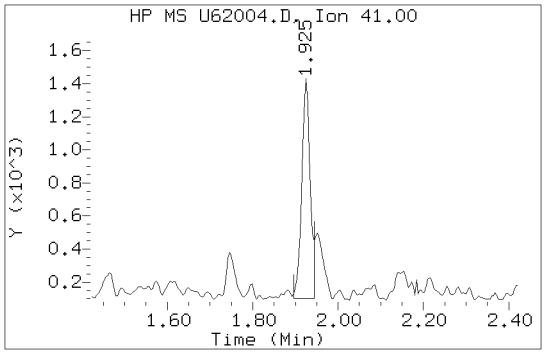
BEFORE

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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
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Inj Date : 20-JUN-2024 12:27
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
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Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 12:06 Cal File: U62004.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	239778	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	3605	2.00000	2.10(M)
3 Chloromethane	50	1.291	1.291	(0.268)	13423	2.00000	2.01
4 Propionitrile	54	4.335	4.335	(0.901)	5919	20.0000	20.64(aM)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	4934	2.00000	2.44(M)
6 Bromomethane	94	1.614	1.614	(0.335)	2855	2.00000	1.48
7 Chloroethane	64	1.696	1.696	(0.353)	3881	2.00000	2.23
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	4839	2.00000	2.10
9 Acrolein	56	2.255	2.255	(0.469)	728	4.00000	3.82(a)
10 Acetone	43	2.405	2.405	(0.500)	5656	4.00000	2.13
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	3341	2.00000	2.38
12 Isobutyl Alcohol	43	5.284	5.284	(1.098)	9925	40.0000	41.92(a)
13 Acetonitrile	39	2.663	2.663	(0.554)	4085	20.0000	12.31(a)
14 Allyl Chloride	41	2.667	2.667	(0.554)	9919	2.00000	1.80(a)
15 Iodomethane	142	2.457	2.457	(0.511)	2557	4.00000	5.38(T)
16 Acrylonitrile	53	3.061	3.061	(0.636)	3090	4.00000	4.79
17 Methylene Chloride	84	2.787	2.787	(0.579)	6118	2.00000	2.05
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	9527	2.00000	2.71
19 Carbon Disulfide	76	2.513	2.513	(0.522)	16568	4.00000	4.29
20 trans-1,2-Dichloroethene	96	3.049	3.049	(0.634)	3775	2.00000	1.98

21 Vinyl Acetate	43	4.339	4.339 (0.902)	3669	4.00000	4.08(M)
22 1,1-Dichloroethane	63	3.503	3.503 (0.728)	7303	2.00000	1.87

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	5563	2.00000	2.09(a)
	24 2-Butanone	43	4.264	4.264	(0.886)	3511	4.00000	4.36
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	1915	2.00000	2.61(aM)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	4589	2.00000	2.61
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	4314	2.00000	2.12
	28 Chloroform	83	4.568	4.568	(0.949)	7659	2.00000	1.86
	29 Bromochloromethane	128	4.463	4.463	(0.928)	2408	2.00000	2.50
$	30 Dibromofluoromethane	113	4.740	4.740	(0.985)	3969	2.00000	2.49
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	4663	2.00000	2.09
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	4266	2.00000	1.97(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	6181	2.00000	1.60
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	3503	2.00000	1.93(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	5111	2.00000	2.51
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	354520	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	16431	2.00000	2.25
	38 Trichloroethene	130	5.786	5.786	(1.043)	4026	2.00000	2.27(a)
	39 Bromodichloromethane	83	6.273	6.273	(1.130)	4250	2.00000	2.06(aM)
	40 Methyl Methacrylate	41	5.823	5.823	(1.210)	1372	2.00000	2.18(a)
	41 2-Chloroethylvinyl ether	63	6.562	6.562	(1.182)	106	4.00000	11.28(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	4418	2.00000	2.28(a)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	735	2.00000	1.93(aM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	2427	2.00000	2.15(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	7395	4.00000	4.21(a)
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	4560	2.00000	1.89(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	318620	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	14829	2.00000	2.39(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	4523	2.00000	2.00(a)
	50 Toluene	91	6.978	6.978	(0.853)	16068	2.00000	2.21(a)
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.297)	3367	2.00000	3.68(a)
	52 2-Hexanone	43	7.218	7.218	(0.882)	6913	4.00000	5.03
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	3147	2.00000	2.24(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	6566	2.00000	2.22(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	2756	2.00000	1.88(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	2962	2.00000	2.18(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	3156	2.00000	2.03(a)
	58 1-Chlorohexane	55	8.189	8.189	(1.475)	5605	2.00000	3.43(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	10976	2.00000	1.74(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	3175	2.00000	2.03(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	4702	2.00000	2.09(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	10364	4.00000	3.86(a)
	63 o-Xylene	106	8.747	8.747	(1.069)	4864	2.00000	1.84(a)
	64 Styrene	104	8.762	8.762	(1.071)	8610	2.00000	1.94(a)
	66 Bromoform	173	8.920	8.920	(1.090)	1781	2.00000	2.76(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	12729	2.00000	1.94(a)
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	4977	2.00000	2.08(aM)
$	69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	5815	2.00000	2.39(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	168373	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	4881	2.00000	3.08(a)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	809	2.00000	1.81(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	14357	2.00000	1.97(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	4522	2.00000	2.28(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	8809	2.00000	3.22(a)

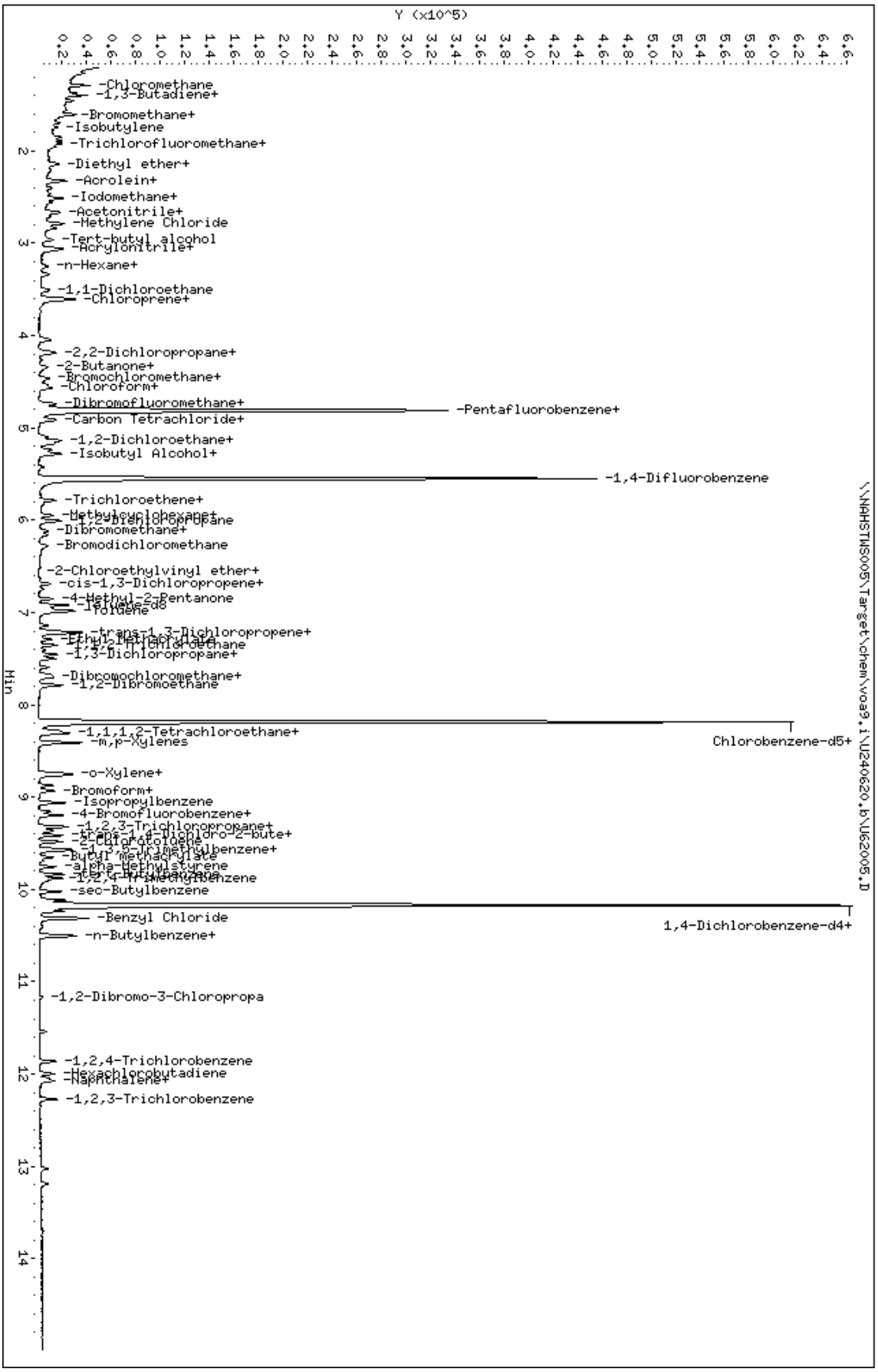
76	2-Chlorotoluene	91	9.482	9.482 (0.932)	10080	2.00000	2.04(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	11347	2.00000	2.02(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	8524	2.00000	1.92(a)
79	1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	12188	2.00000	2.27(aM)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	11025	2.00000	1.86(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	8854	2.00000	3.15(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	8094	2.00000	2.22(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	8802	2.00000	1.92(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	26630	2.00000	4.69(a)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	7724	2.00000	2.84(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	7893	2.00000	2.17(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	571	2.00000	2.52(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	4136	2.00000	1.88(a)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	1995	2.00000	2.05(a)
92	Naphthalene	128	12.072	12.072	(1.187)	8058	2.00000	3.47(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	4185	2.00000	2.08(a)
146	Methyl acetate	43	2.708	2.708	(0.563)	3673	2.00000	0.52(a)
138	Freon TF	101	2.326	2.326	(0.483)	2577	2.00000	1.49(a)
141	Cyclohexane	56	4.811	4.811	(1.000)	8326	2.00000	2.70(a)
142	Tetrahydrofuran	42	4.545	4.545	(0.945)	1103	4.00000	3.88(aM)
147	Methylcyclohexane	55	5.943	5.943	(1.071)	6323	2.00000	1.67(a)
135	1,4-Dioxane	88	6.168	6.168	(1.282)	1106	40.0000	25.23
132	n-Butanol	56	5.827	5.827	(1.211)	2050	40.0000	47.27(a)
136	n-Hexane	57	3.334	3.334	(0.693)	3145	2.00000	2.04(a)
139	Diethyl ether	59	2.138	2.138	(0.445)	2804	2.00000	1.46(a)
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	7130	40.0000	40.02
149	Isopropyl alcohol	45	2.558	2.558	(0.532)	5605	40.0000	38.57
156	Diisopropyl ether	45	3.615	3.615	(0.751)	12472	2.00000	2.15(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	5640	2.00000	1.92(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	12710	2.00000	1.74(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	9488	2.00000	1.97(a)
167	Ethanol	45	2.075	2.075	(0.431)	951	40.0000	24.42(M)
172	tert-Butyl formate	59	5.235	5.235	(1.088)	6189	4.00000	4.73(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	18311	40.0000	37.45
140	1,3-Butadiene	54	1.396	1.396	(0.290)	4560	2.00000	2.21(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	356	8.00000	10.84(M)
M 94	1,2-Dichloroethylene (total)	96				8089	4.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	1723	2.00000	1.04(aM)
131	Methyl Acrylate	55	4.369	4.369	(0.908)	4100	2.00000	2.06(aM)
189	n-Butyl acetate	43	7.705	7.705	(0.941)	5338	2.00000	2.10(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	3987	40.0000	38.78(a)
185	Isoprene	39	2.153	2.153	(0.448)	718	2.00000	2.06(a)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	9833	2.00000	2.07(a)
150	Allyl alcohol	57	3.334	3.334	(0.693)	3145	40.0000	40.91
194	Acetaldehyde	44	1.456	1.456	(0.303)	3065	8.00000	7.64(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	1413	2.00000	2.59(a)
202	Isobutylene	41	1.745	1.745	(0.363)	1008	2.00000	2.53(aM)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	6440	2.00000	1.70(aM)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	3224	2.00000	1.30(a)
178	Ethylene oxide	44	1.602	1.602	(0.333)	7361	4.00000	4.13(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	3095	2.00000	2.99(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	3699	2.00000	2.04(aA)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	7764	2.00000	2.18(aAM)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	5895	2.00000	2.09(aM)

206 2-Chloropropene	41	1.917	1.917 (0.399)	4413	2.00000	1.79(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.


Y (x10^5)
Min
-Chloromethane
-1,3-Butadiene+
-Bromomethane+
-Isobutylene
-Trichlorofluoromethane+
-Diethyl ether+
-Acrolein+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-2,2-Dichloropropane+
-2-Butanone+
-Bromochloromethane+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane+
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,2,3-Trichloropropane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl Methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
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Date : 20-JUN-2024 12:27
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4
Purge Volume: 5.0
Column phase: DB624
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Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Page 1

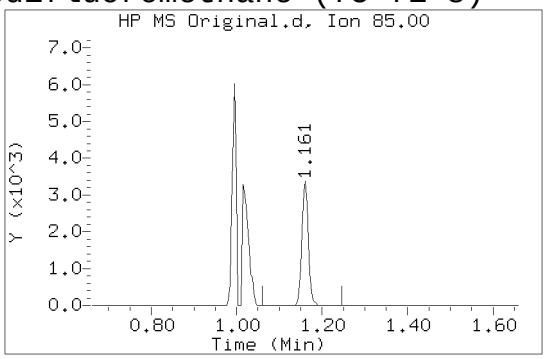
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InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

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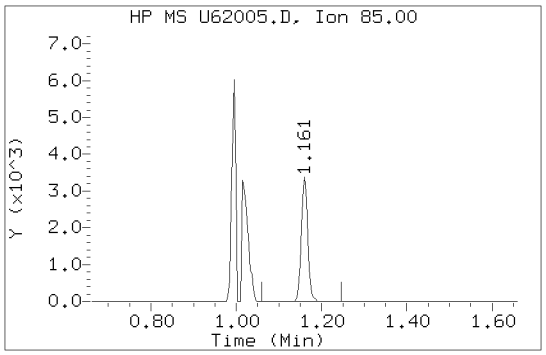
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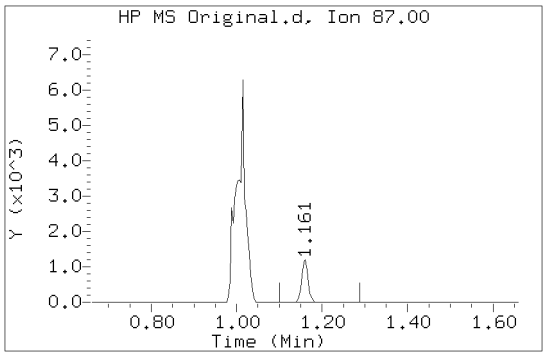
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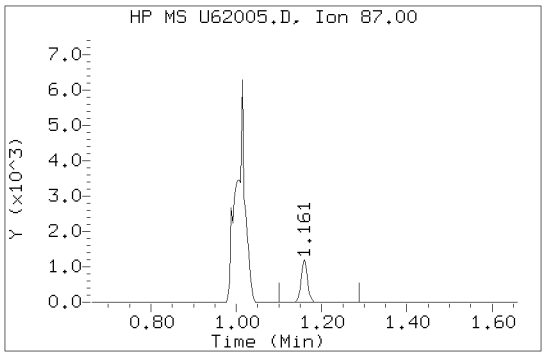
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AFTER

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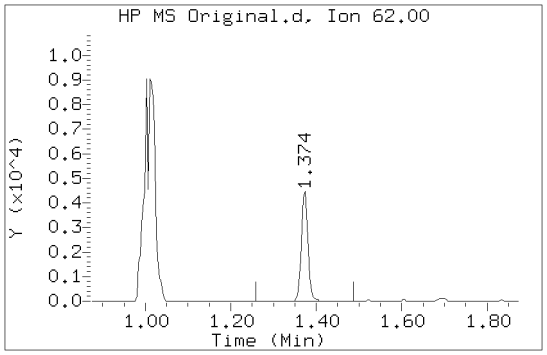


Vinyl Chloride (75-01-4)

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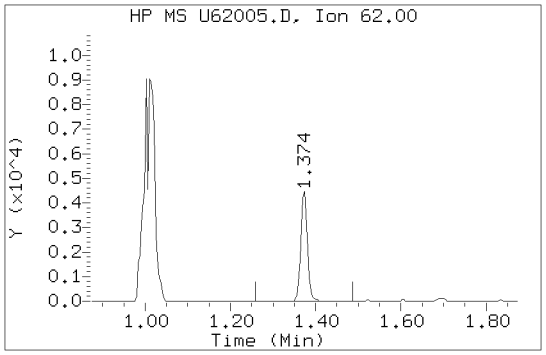
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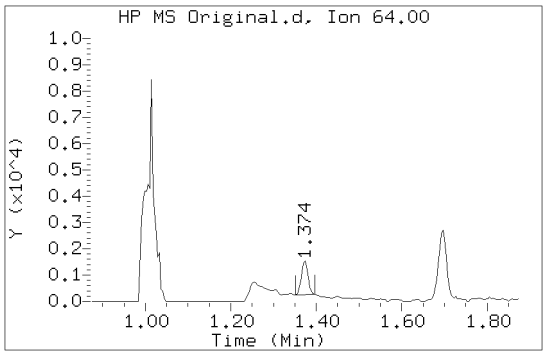
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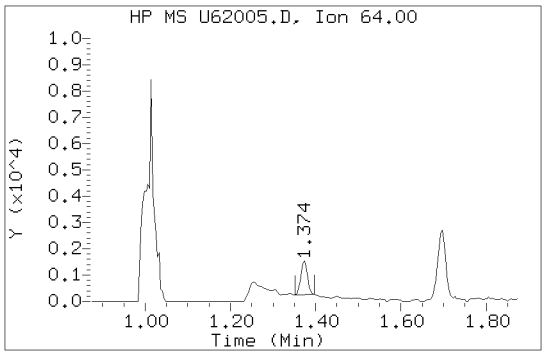
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AFTER

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29-Jun-2024
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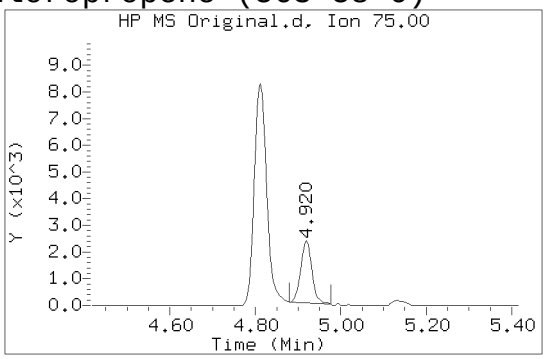
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Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

1,1-Dichloropropene (563-58-6)

Reason Code:

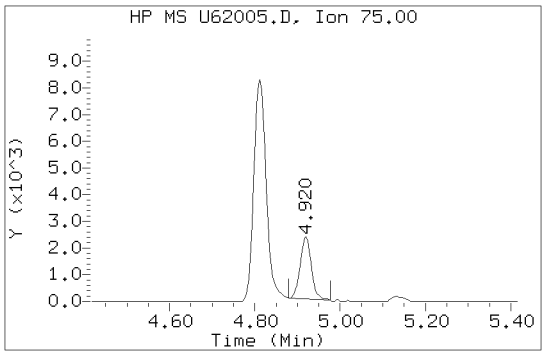
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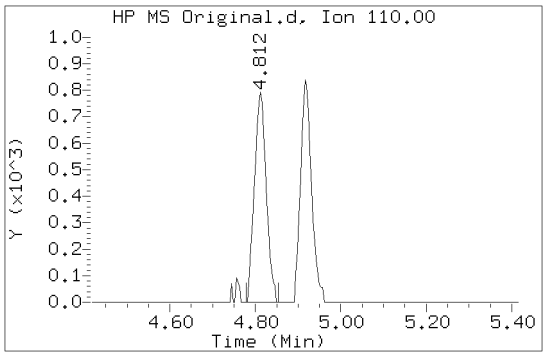
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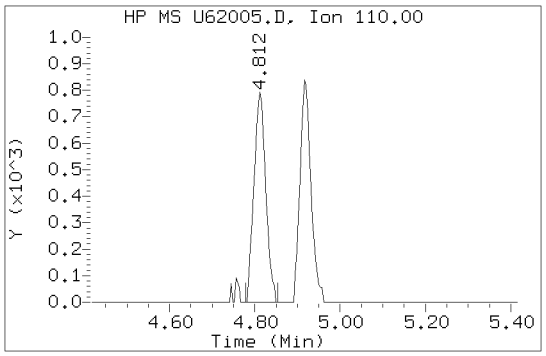
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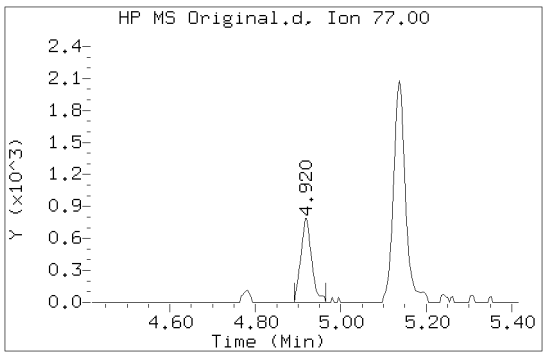
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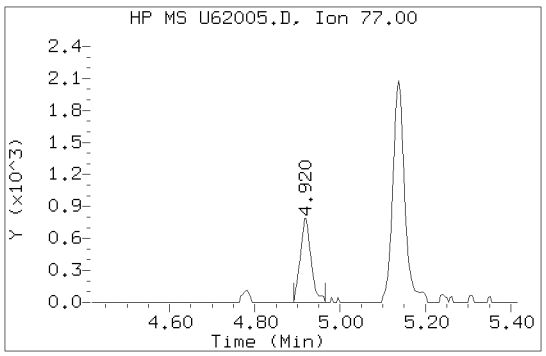
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AFTER

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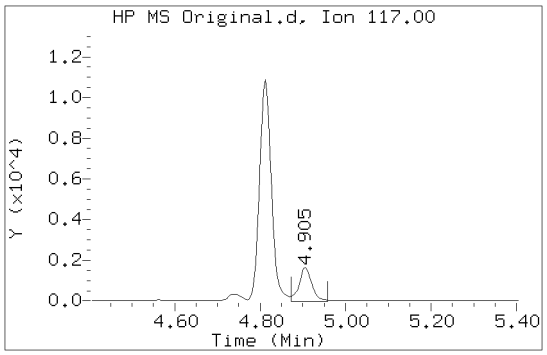


Carbon Tetrachloride (56-23-5)

Reason Code:

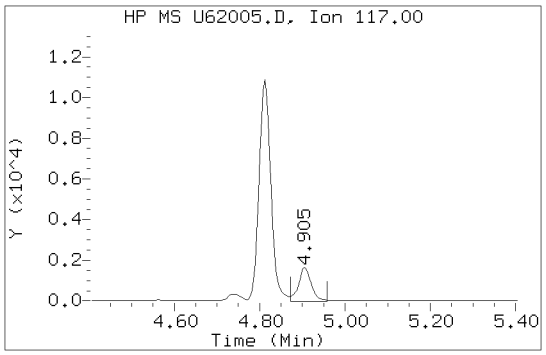
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29-Jun-2024
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AFTER

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29-Jun-2024
12:15
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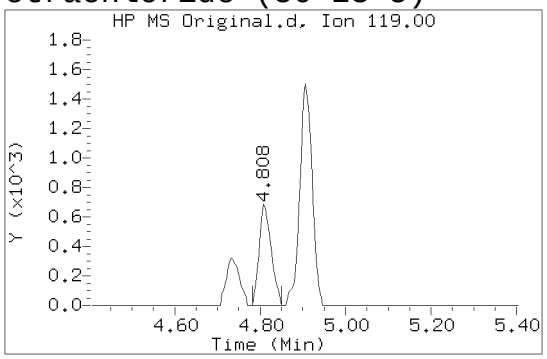
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Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

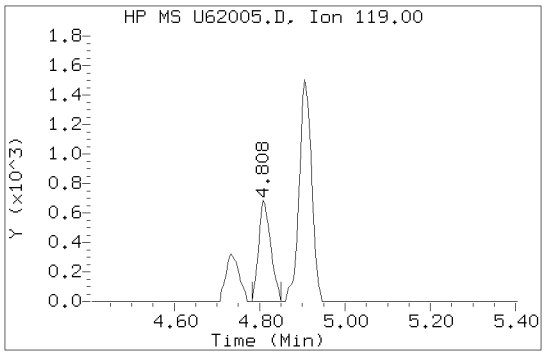
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29-Jun-2024
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AFTER

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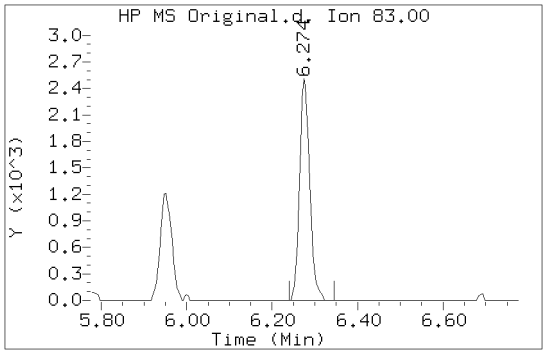


Bromodichloromethane (75-27-4)

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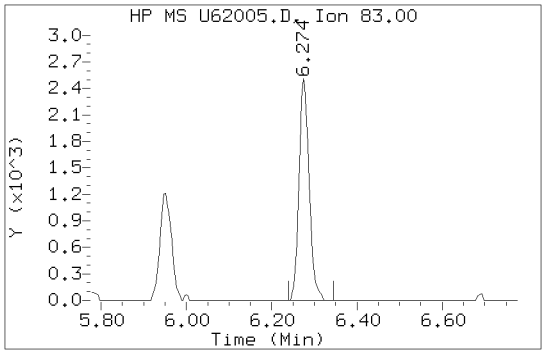
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29-Jun-2024
12:15
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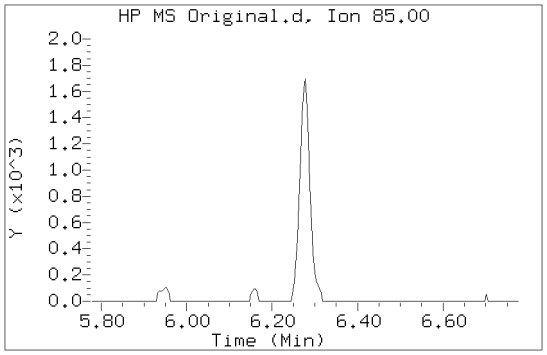
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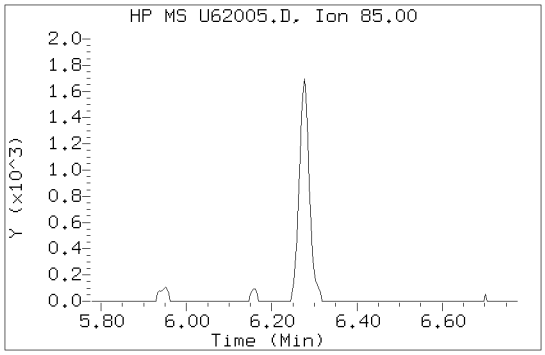
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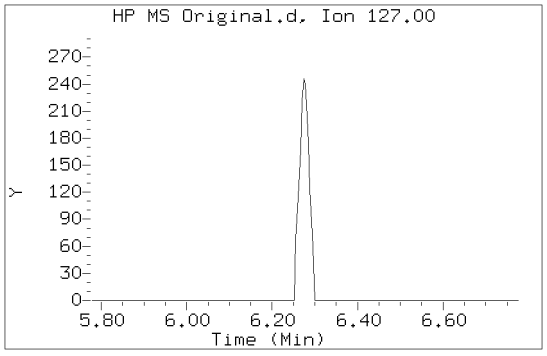
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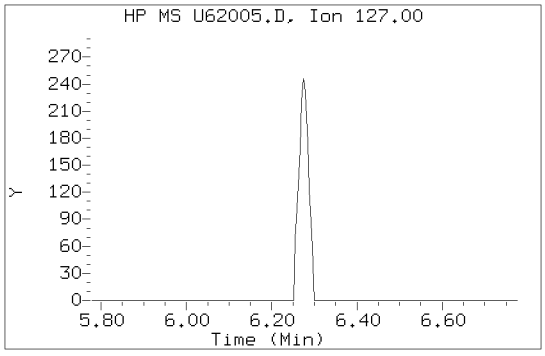
BEFORE

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29-Jun-2024
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AFTER

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s
zaid



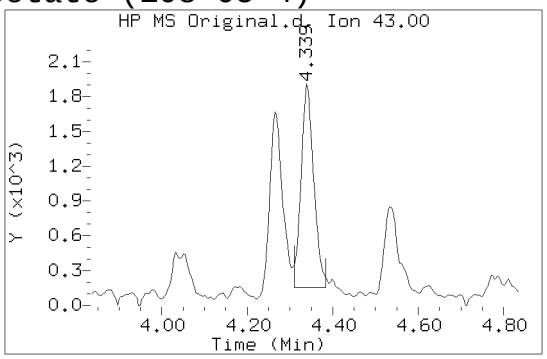
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Vinyl Acetate (108-05-4)

Reason Code:

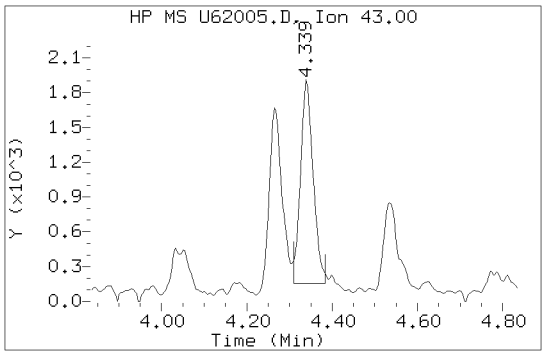
BEFORE

MASS
43
AREA
3669
HEIGHT
1757
29-Jun-2024
12:15
s
zaid



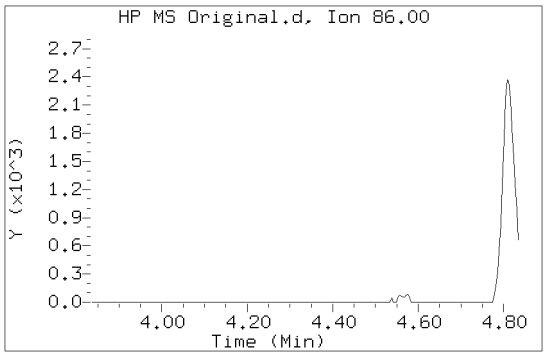
AFTER

MASS
43
AREA
3669
HEIGHT
1757
29-Jun-2024
12:15
s
zaid



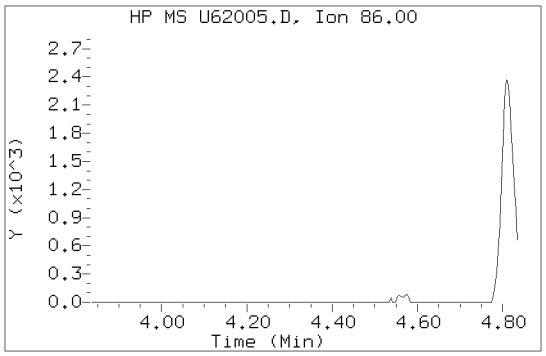
BEFORE

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

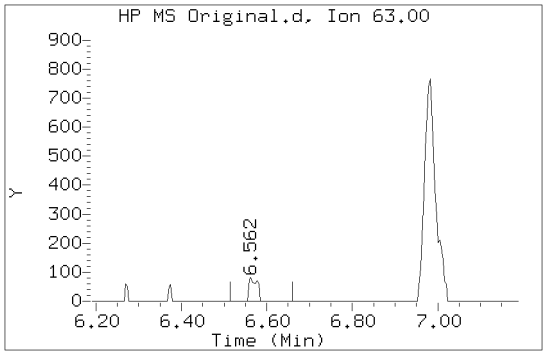


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

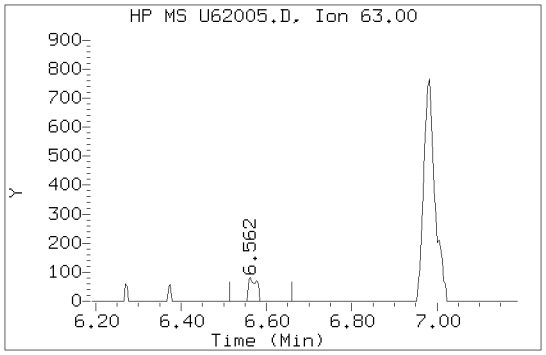
BEFORE

MASS
63
AREA
106
HEIGHT
81
29-Jun-2024
12:15
s
zaid



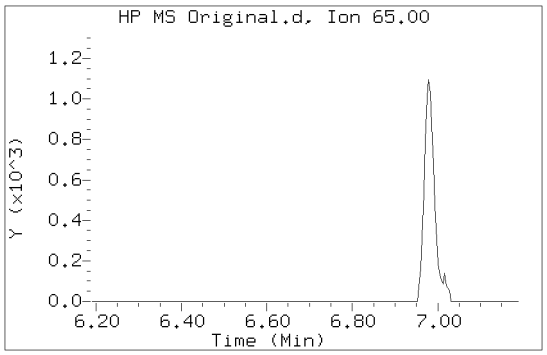
AFTER

MASS
63
AREA
106
HEIGHT
81
29-Jun-2024
12:15
s
zaid



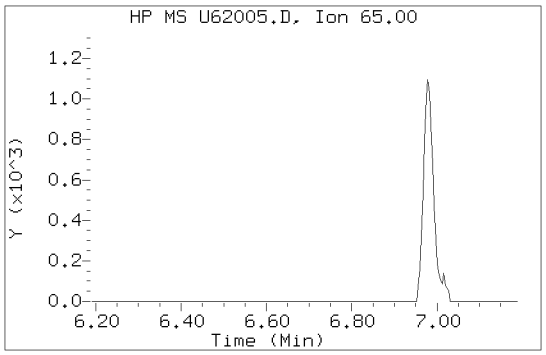
BEFORE

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



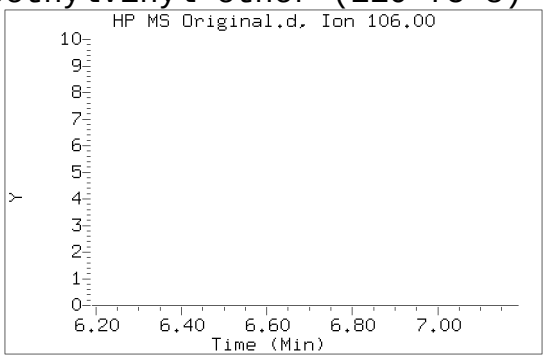
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

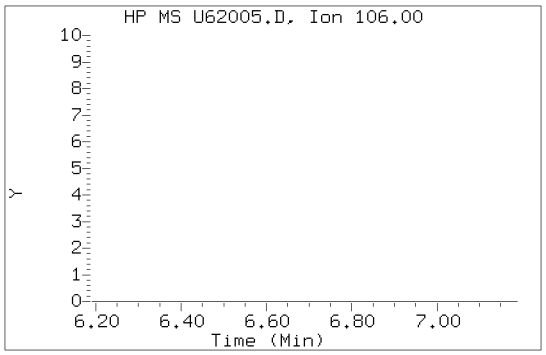
BEFORE

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

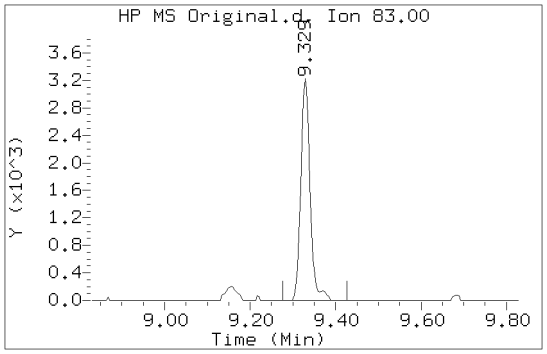


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

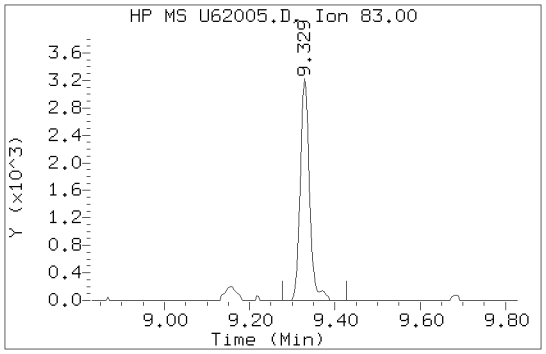
BEFORE

MASS
83
AREA
4977
HEIGHT
3225
29-Jun-2024
12:15
s
zaid



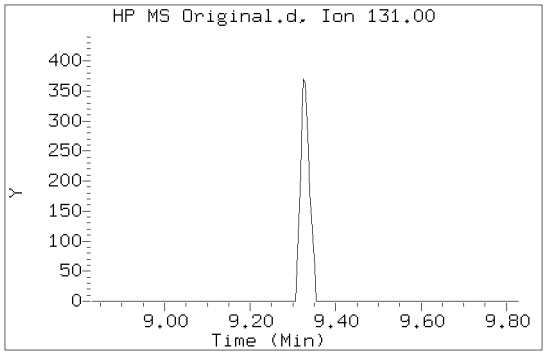
AFTER

MASS
83
AREA
4977
HEIGHT
3225
29-Jun-2024
12:15
s
zaid



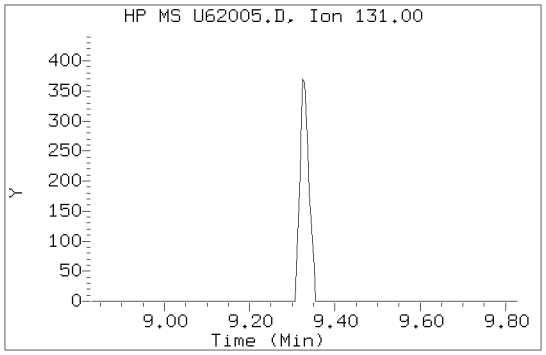
BEFORE

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



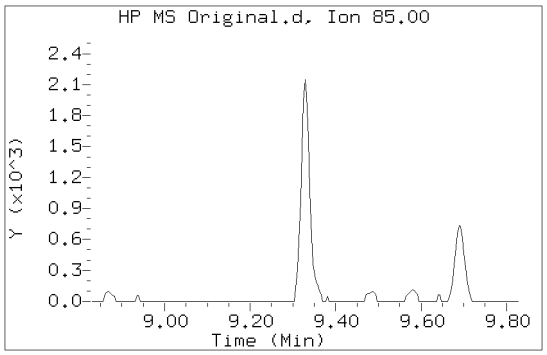
AFTER

MASS
131
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



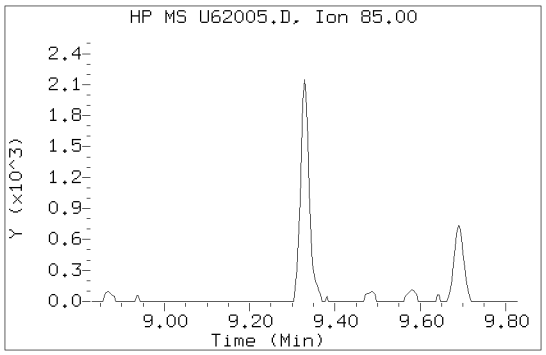
BEFORE

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



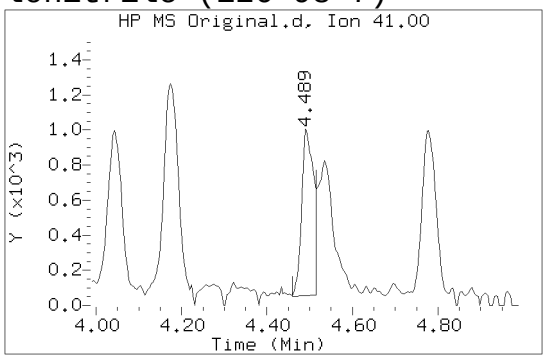
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Methacrylonitrile (126-98-7)

Reason Code:

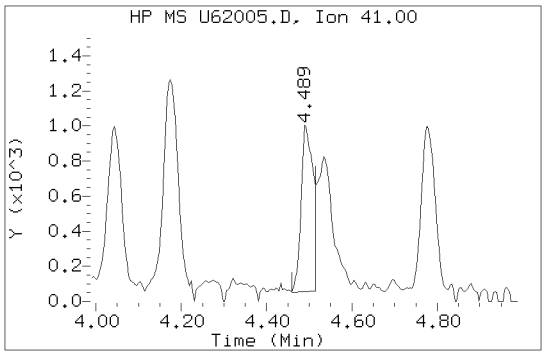
BEFORE

MASS
41
AREA
1915
HEIGHT
950
29-Jun-2024
12:15
s
zaid



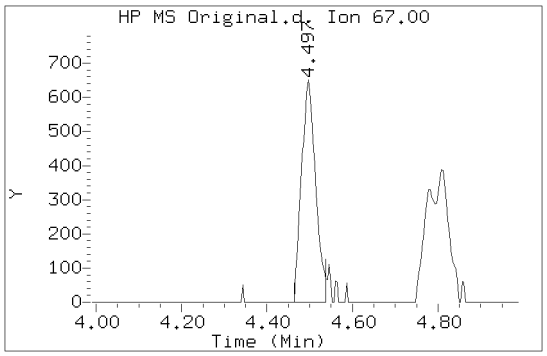
AFTER

MASS
41
AREA
1915
HEIGHT
950
29-Jun-2024
12:15
s
zaid



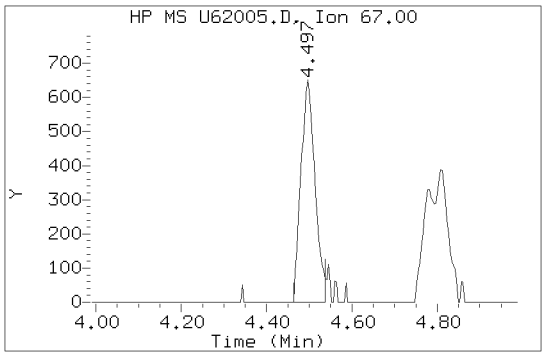
BEFORE

MASS
67
AREA
1515
HEIGHT
651
29-Jun-2024
12:15
s
zaid



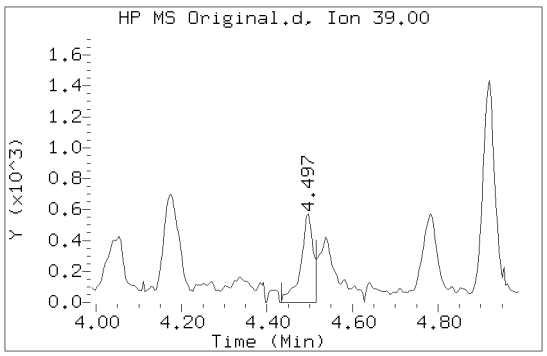
AFTER

MASS
67
AREA
1515
HEIGHT
651
29-Jun-2024
12:15
s
zaid



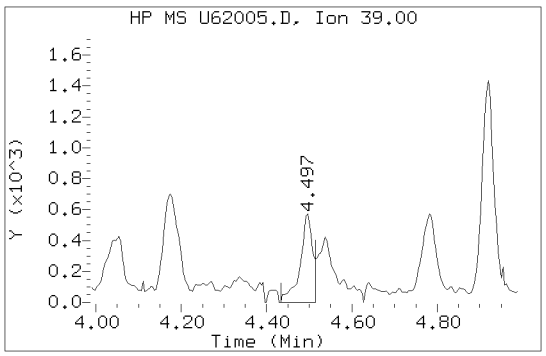
BEFORE

MASS
39
AREA
1205
HEIGHT
571
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
1205
HEIGHT
571
29-Jun-2024
12:15
s
zaid

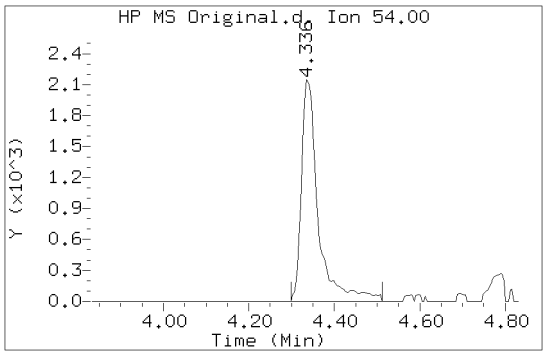


Propionitrile (107-12-0)

Reason Code:

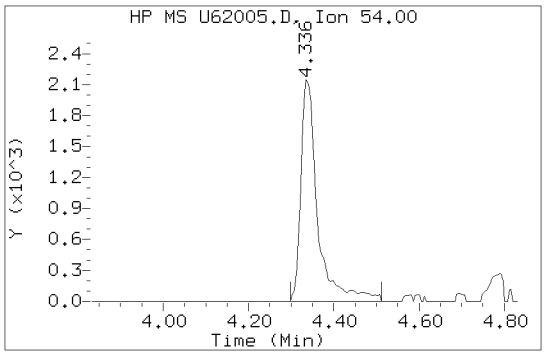
BEFORE

MASS
54
AREA
5919
HEIGHT
2148
29-Jun-2024
12:15
s
zaid



AFTER

MASS
54
AREA
5919
HEIGHT
2148
29-Jun-2024
12:15
s
zaid



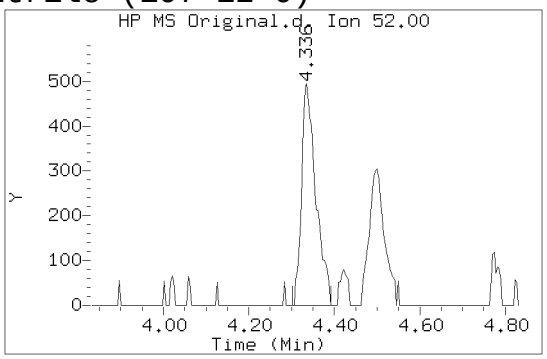
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Propionitrile (107-12-0)

Reason Code:

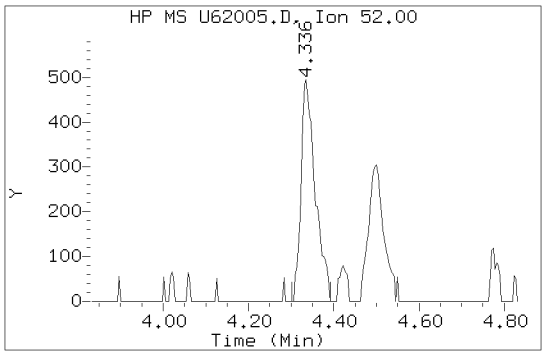
BEFORE

MASS
52
AREA
1158
HEIGHT
495
29-Jun-2024
12:15
s
zaid



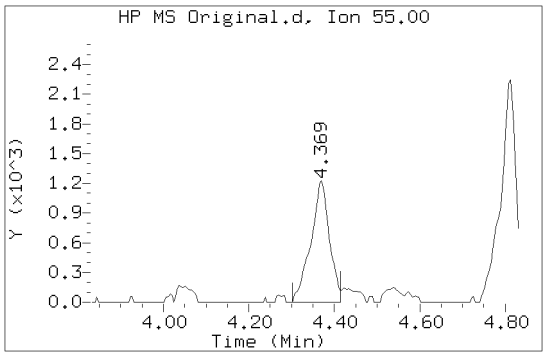
AFTER

MASS
52
AREA
1158
HEIGHT
495
29-Jun-2024
12:15
s
zaid



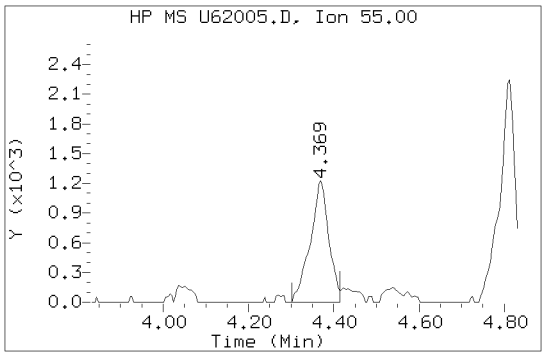
BEFORE

MASS
55
AREA
3718
HEIGHT
1225
29-Jun-2024
12:15
s
zaid



AFTER

MASS
55
AREA
3718
HEIGHT
1225
29-Jun-2024
12:15
s
zaid

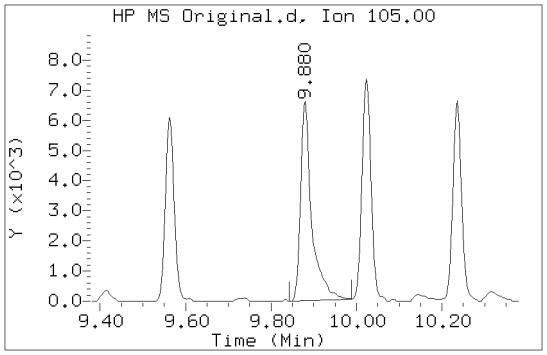


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

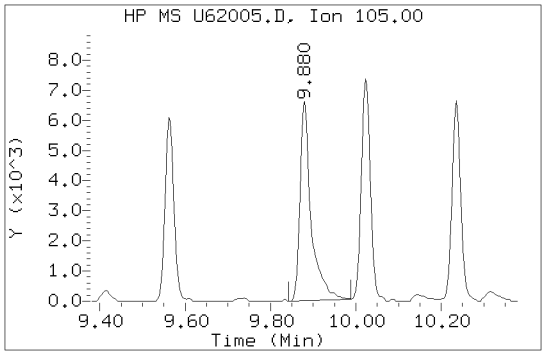
BEFORE

MASS
105
AREA
12188
HEIGHT
6618
29-Jun-2024
12:15
s
zaid



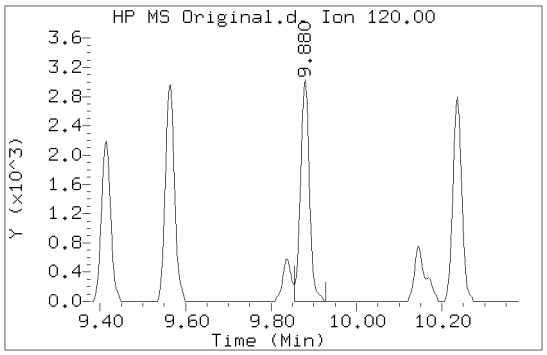
AFTER

MASS
105
AREA
12188
HEIGHT
6618
29-Jun-2024
12:15
s
zaid



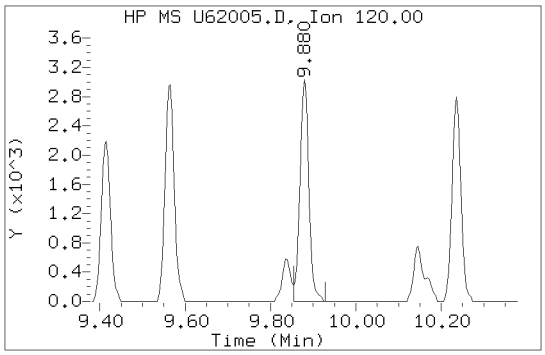
BEFORE

MASS
120
AREA
4522
HEIGHT
3032
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
4522
HEIGHT
3032
29-Jun-2024
12:15
s
zaid



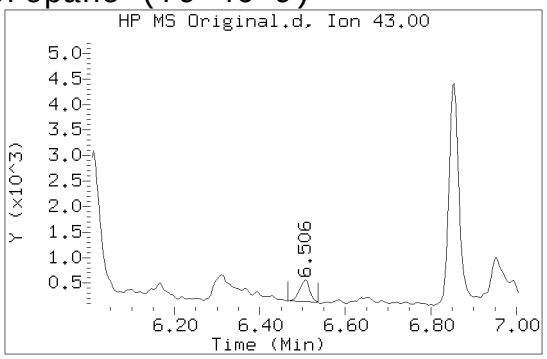
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

2-Nitropropane (79-46-9)

Reason Code:

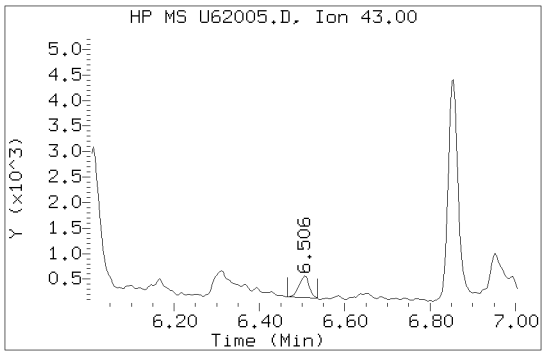
BEFORE

MASS
43
AREA
735
HEIGHT
436
29-Jun-2024
12:15
s
zaid



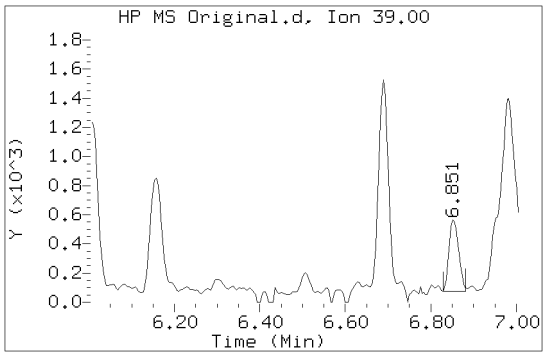
AFTER

MASS
43
AREA
735
HEIGHT
436
29-Jun-2024
12:15
s
zaid



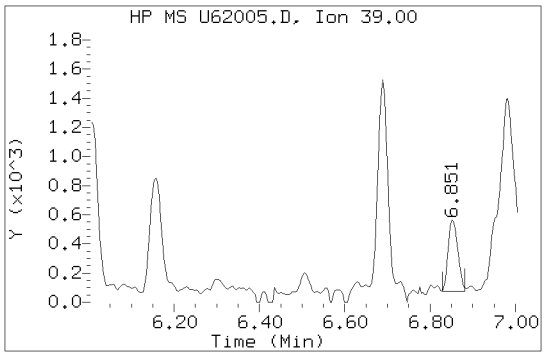
BEFORE

MASS
39
AREA
775
HEIGHT
488
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
775
HEIGHT
488
29-Jun-2024
12:15
s
zaid

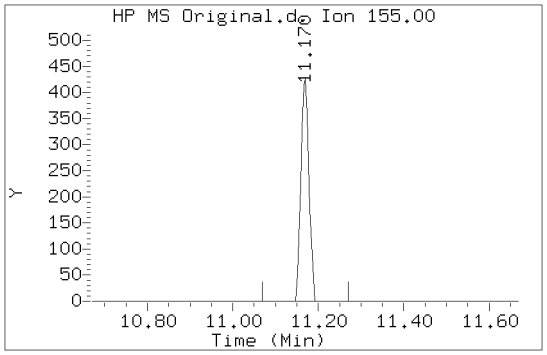


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

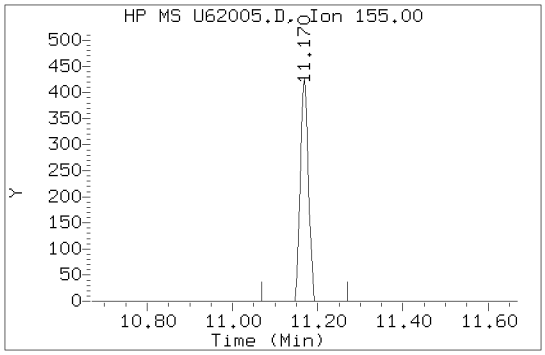
BEFORE

MASS
155
AREA
571
HEIGHT
426
29-Jun-2024
12:15
s
zaid



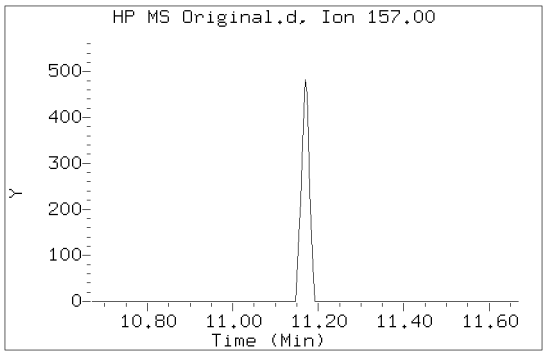
AFTER

MASS
155
AREA
571
HEIGHT
426
29-Jun-2024
12:15
s
zaid



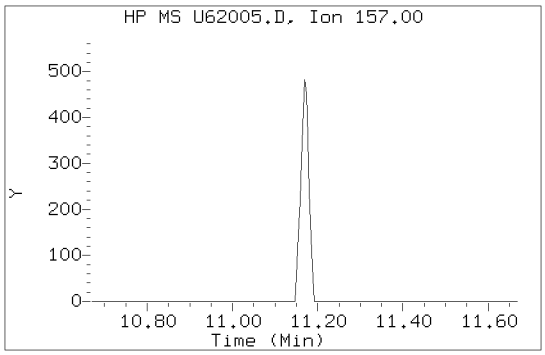
BEFORE

MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
157
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



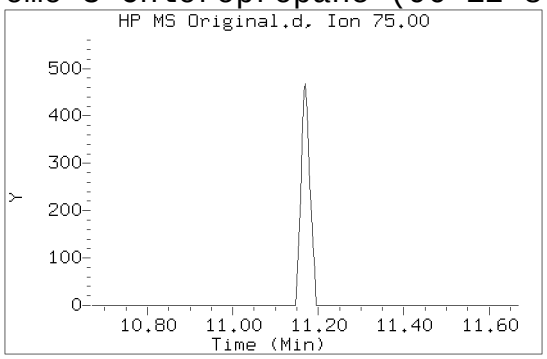
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

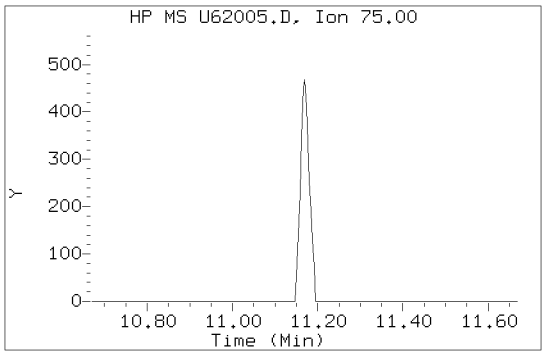
BEFORE

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

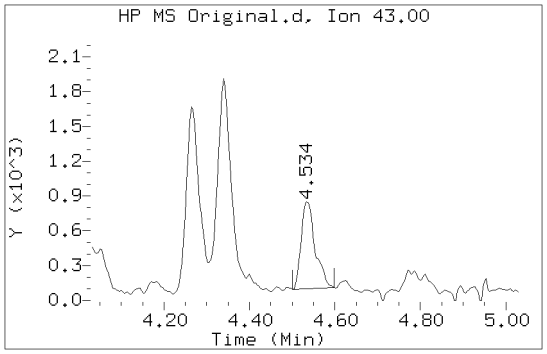


Ethyl Acetate (141-78-6)

Reason Code:

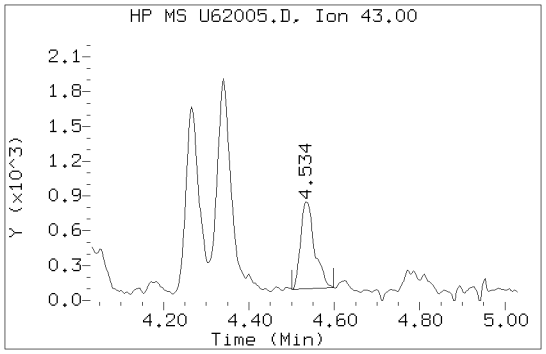
BEFORE

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754
29-Jun-2024
12:15
s
zaid



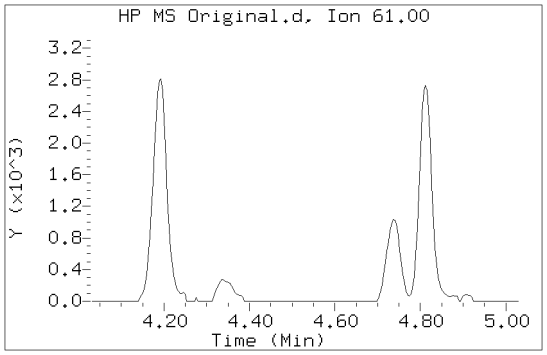
AFTER

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AREA
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HEIGHT
754
29-Jun-2024
12:15
s
zaid



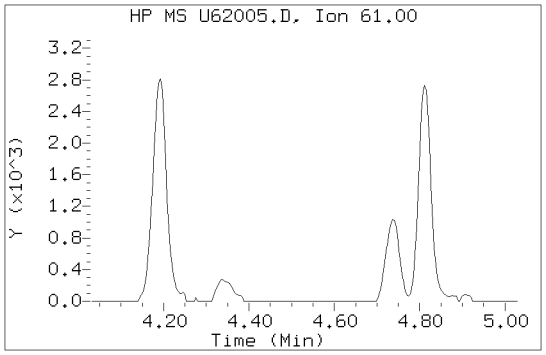
BEFORE

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AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



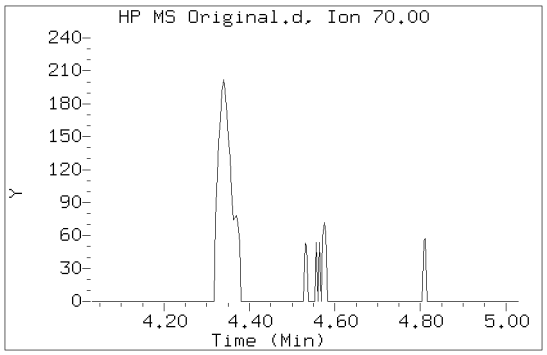
AFTER

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12:15
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zaid



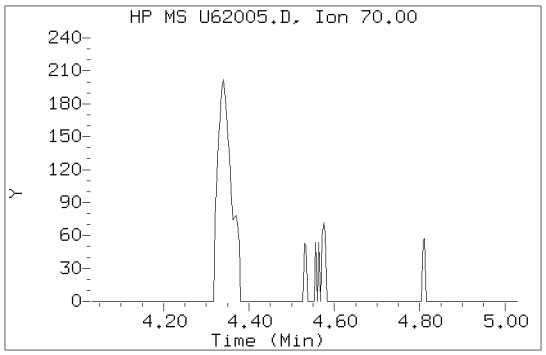
BEFORE

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AREA
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HEIGHT
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29-Jun-2024
12:15
s
zaid



AFTER

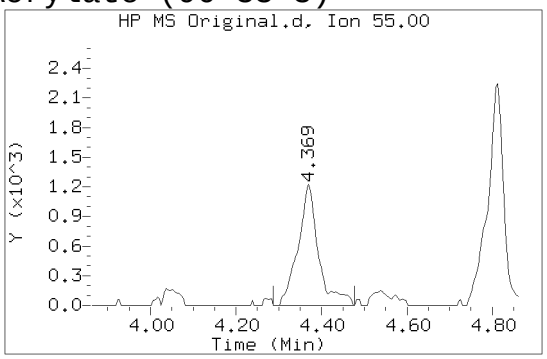
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70
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

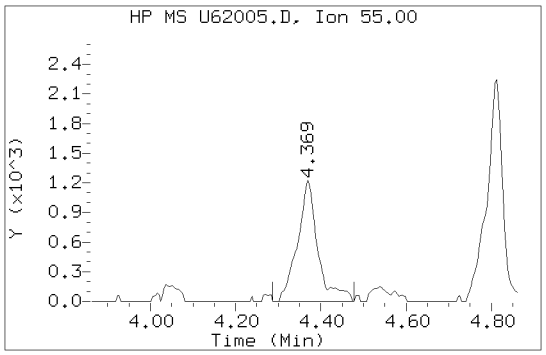
Methyl Acrylate (96-33-3)

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AREA
4100
HEIGHT
1225
29-Jun-2024
12:15
s
zaid

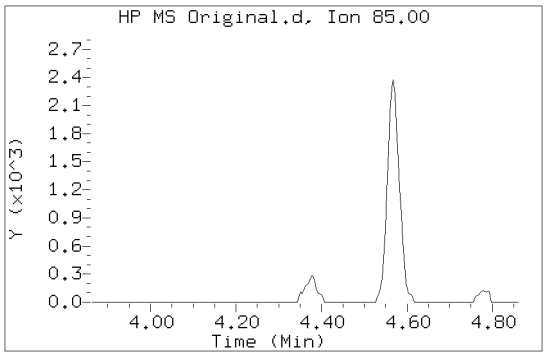


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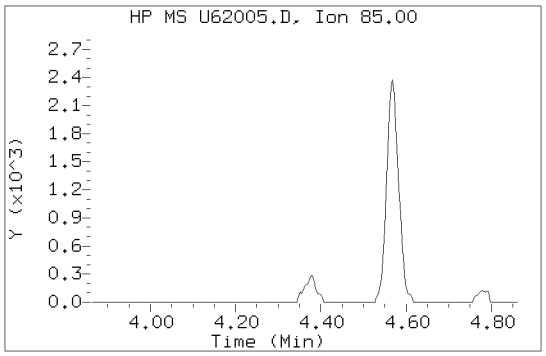
AFTER
MASS
55
AREA
4100
HEIGHT
1225
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

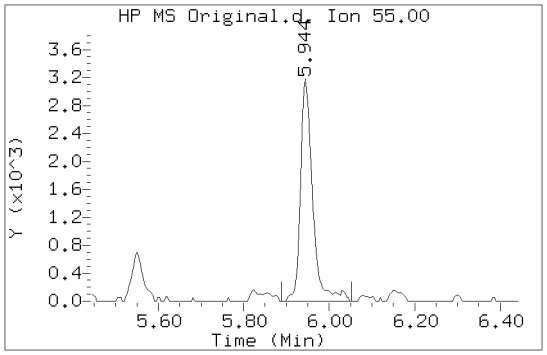


AFTER
MASS
85
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



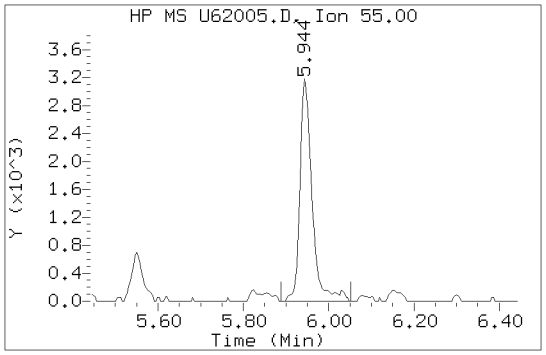
Ethyl Acrylate (140-88-5)

BEFORE
MASS
55
AREA
6440
HEIGHT
3181
29-Jun-2024
12:15
s
zaid

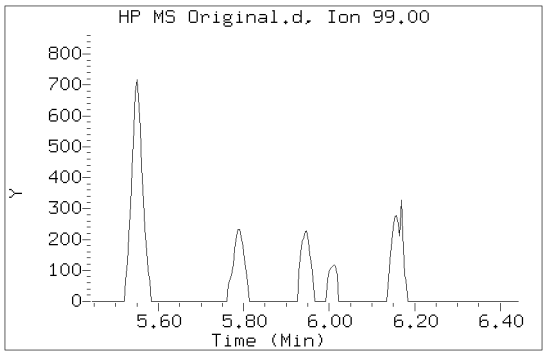


Reason Code:

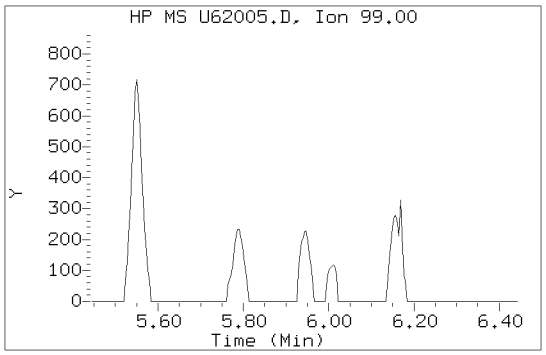
AFTER
MASS
55
AREA
6440
HEIGHT
3181
29-Jun-2024
12:15
s
zaid



BEFORE
MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER
MASS
99
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



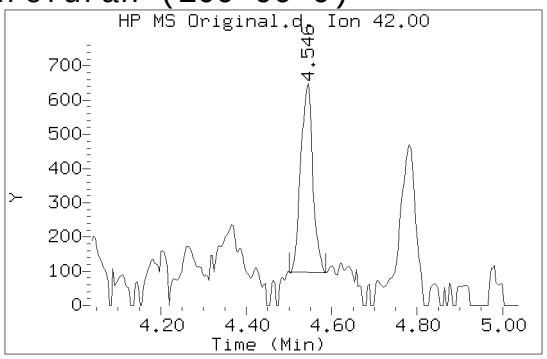
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Tetrahydrofuran (109-99-9)

Reason Code:

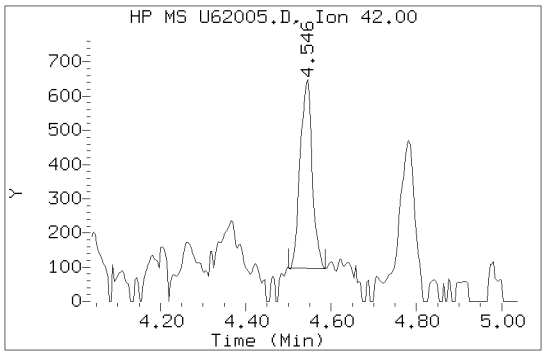
BEFORE

MASS
42
AREA
1103
HEIGHT
552
29-Jun-2024
12:15
s
zaid



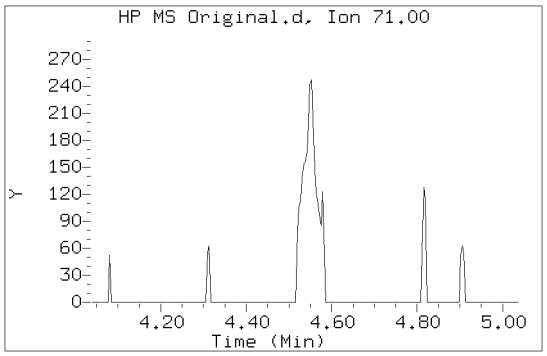
AFTER

MASS
42
AREA
1103
HEIGHT
552
29-Jun-2024
12:15
s
zaid



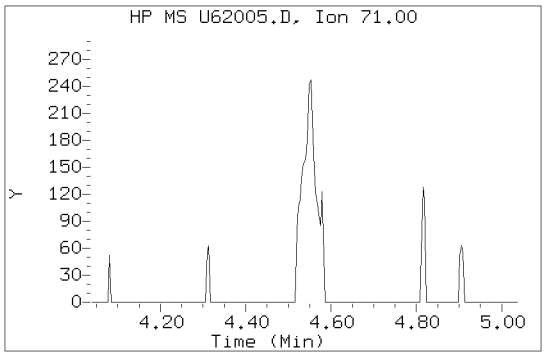
BEFORE

MASS
71
AREA
0
HEIGHT
0
29-Jun-2024
12:15
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zaid



AFTER

MASS
71
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid

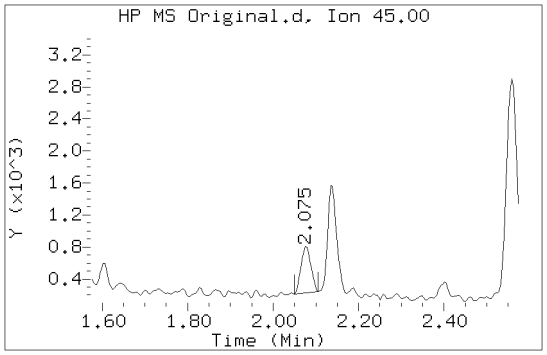


Ethanol (64-17-5)

Reason Code:

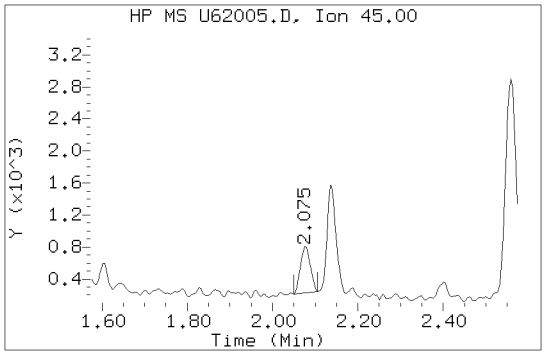
BEFORE

MASS
45
AREA
951
HEIGHT
577
29-Jun-2024
12:15
s
zaid



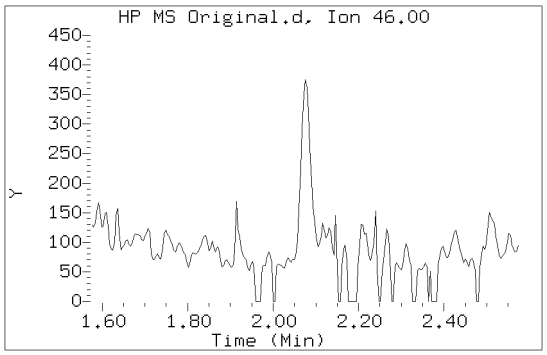
AFTER

MASS
45
AREA
951
HEIGHT
577
29-Jun-2024
12:15
s
zaid



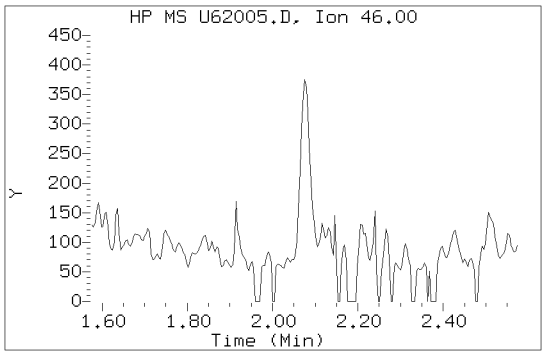
BEFORE

MASS
46
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
46
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid

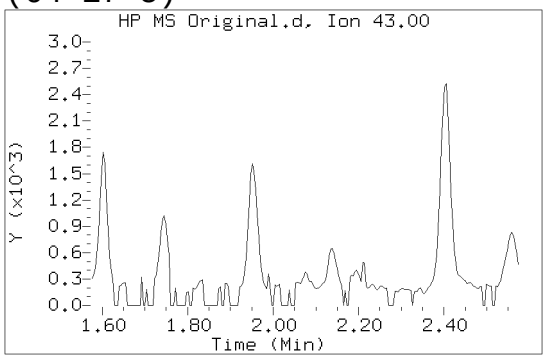


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62005.D
Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Ethanol (64-17-5)

BEFORE

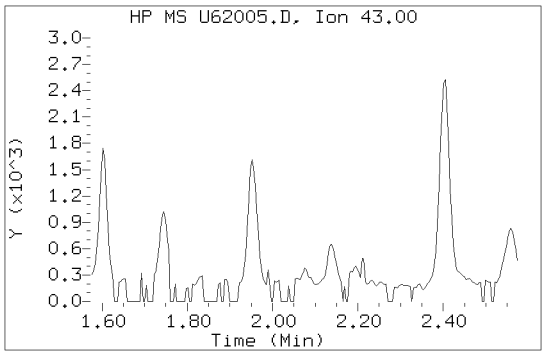
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER

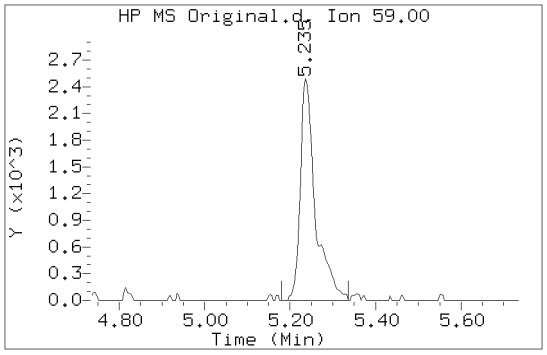
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



tert-Butyl formate (762-75-4)

BEFORE

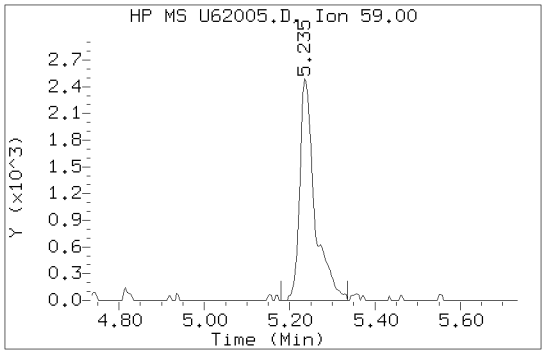
MASS
59
AREA
6189
HEIGHT
2490
29-Jun-2024
12:15
s
zaid



Reason Code:

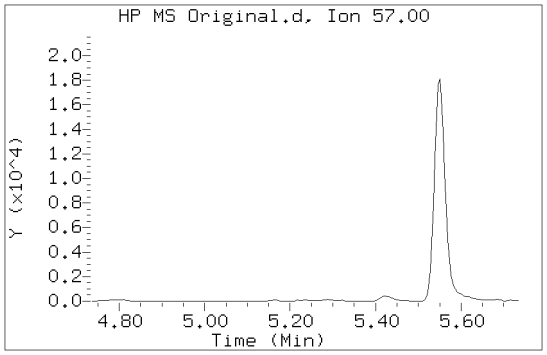
AFTER

MASS
59
AREA
6189
HEIGHT
2490
29-Jun-2024
12:15
s
zaid



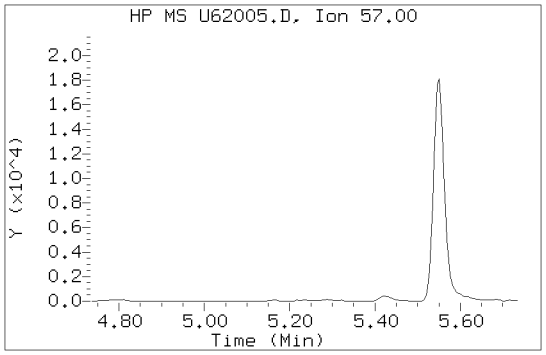
BEFORE

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57
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



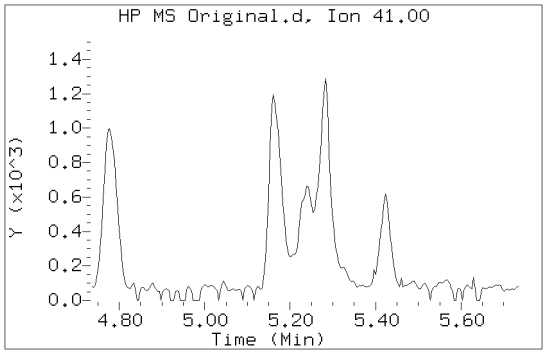
AFTER

MASS
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AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



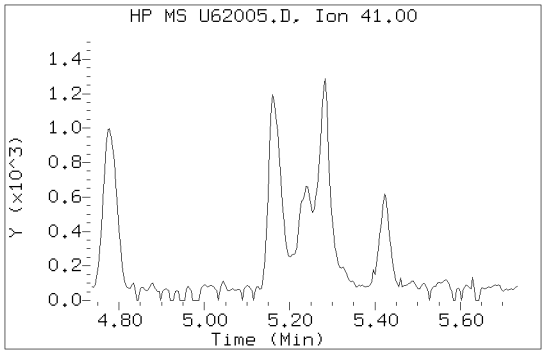
BEFORE

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HEIGHT
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29-Jun-2024
12:15
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zaid



AFTER

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HEIGHT
0
29-Jun-2024
12:15
s
zaid



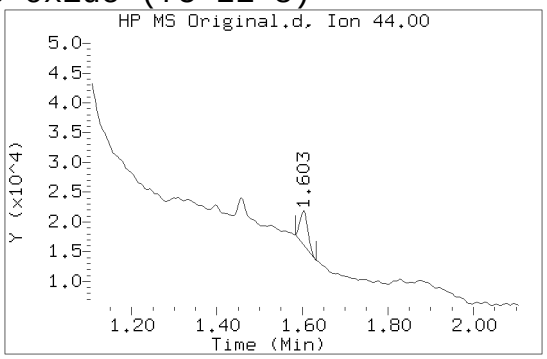
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Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Ethylene oxide (75-21-8)

Reason Code:

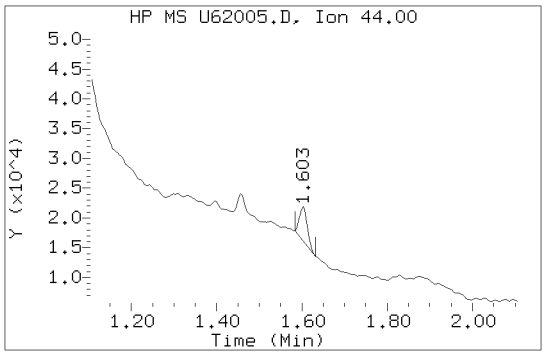
BEFORE

MASS
44
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7361
HEIGHT
5698
29-Jun-2024
12:15
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zaid



AFTER

MASS
44
AREA
7361
HEIGHT
5698
29-Jun-2024
12:15
s
zaid

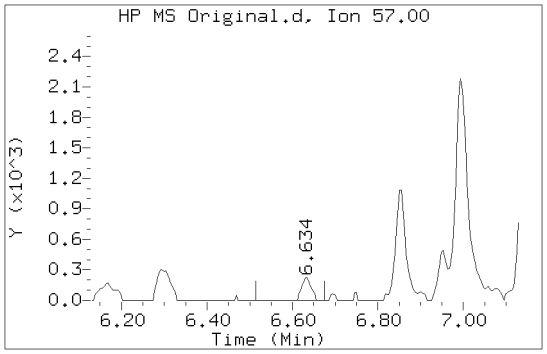


Epichlorohydrin (106-89-8)

Reason Code:

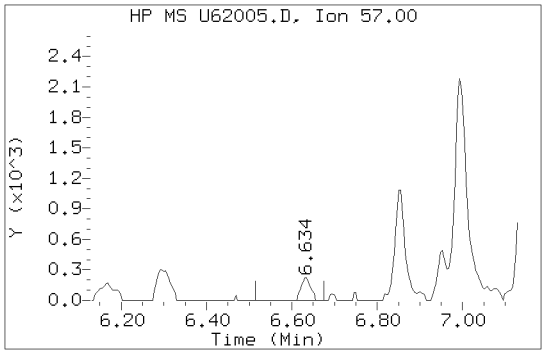
BEFORE

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HEIGHT
225
29-Jun-2024
12:15
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zaid



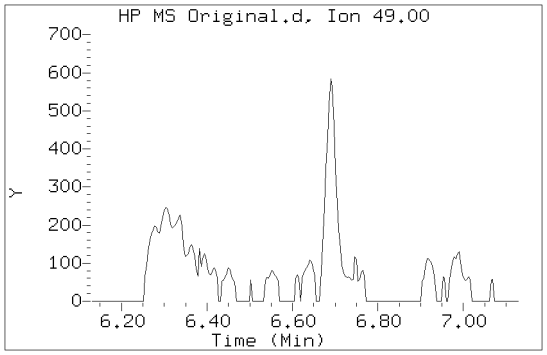
AFTER

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AREA
356
HEIGHT
225
29-Jun-2024
12:15
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zaid



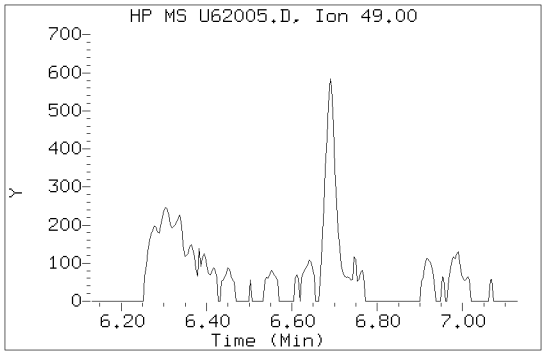
BEFORE

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29-Jun-2024
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AFTER

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HEIGHT
0
29-Jun-2024
12:15
s
zaid

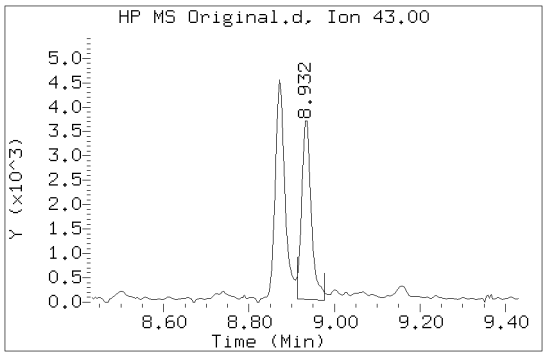


n-Amyl acetate (628-63-7)

Reason Code:

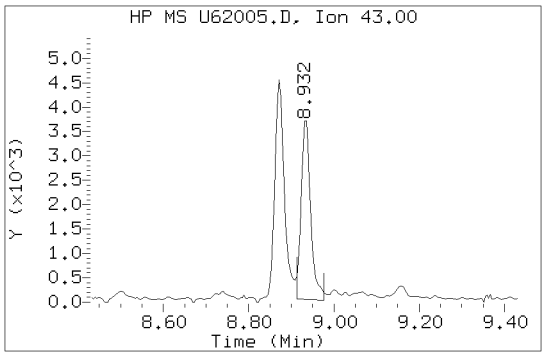
BEFORE

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HEIGHT
3656
29-Jun-2024
12:15
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zaid



AFTER

MASS
43
AREA
5895
HEIGHT
3656
29-Jun-2024
12:15
s
zaid



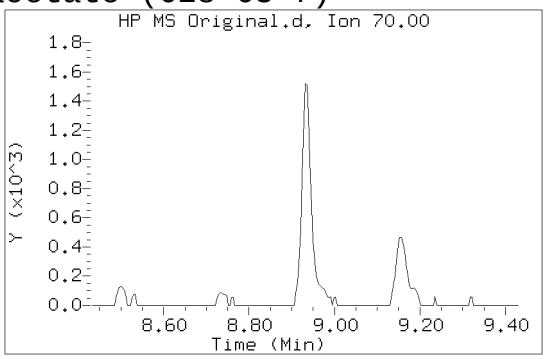
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Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

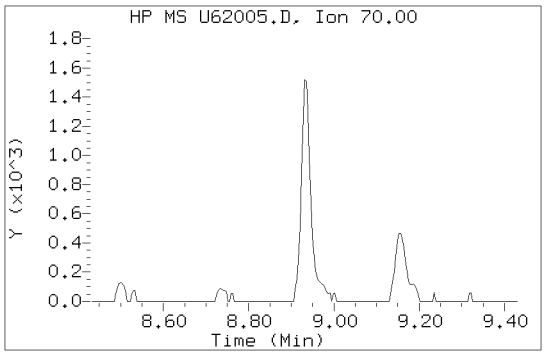
BEFORE

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70
AREA
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HEIGHT
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29-Jun-2024
12:15
s
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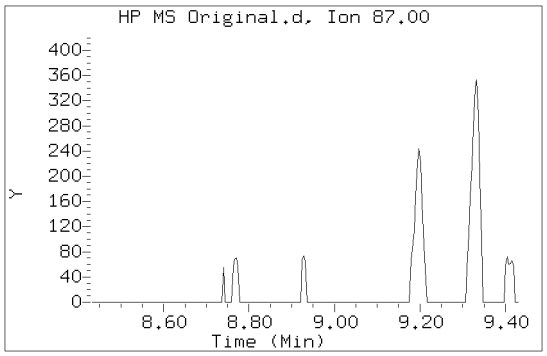
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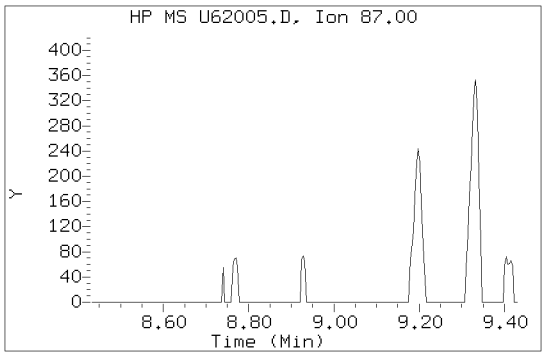
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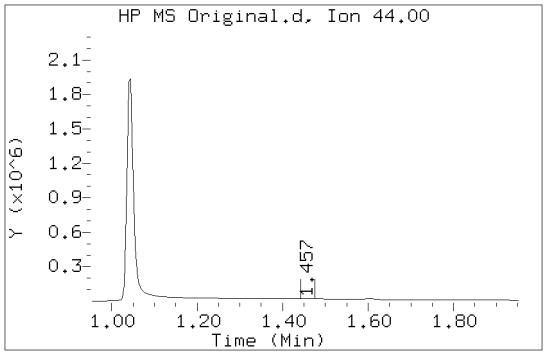


Acetaldehyde (75-07-0)

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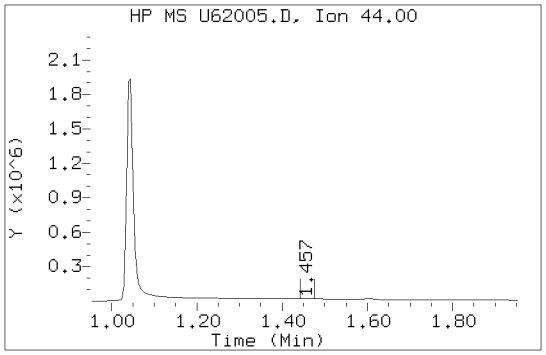
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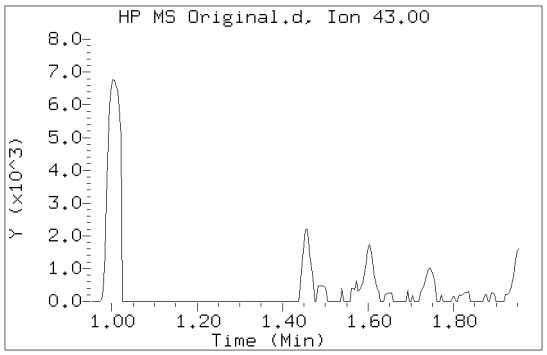
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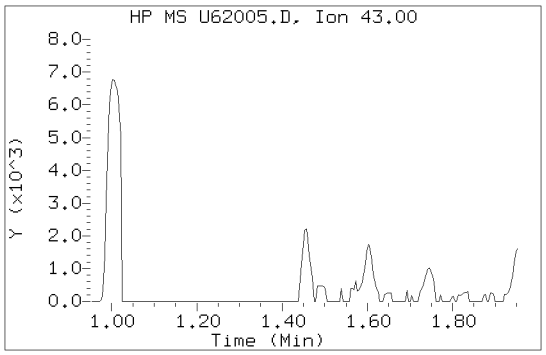
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AFTER

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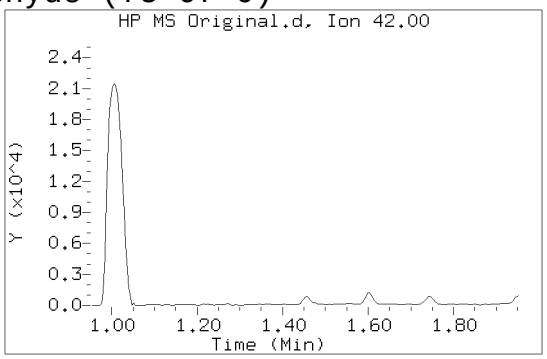
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Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

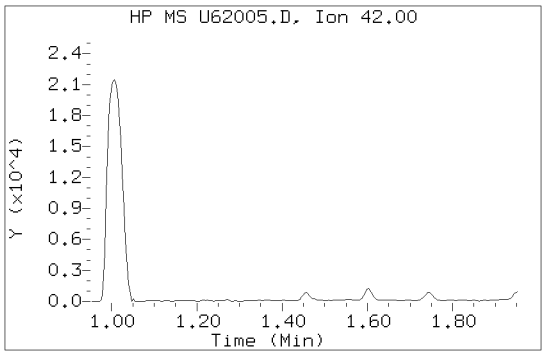
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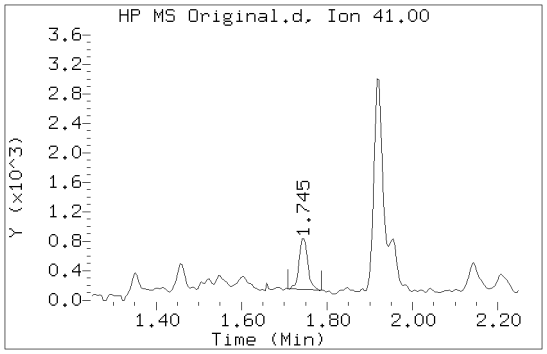


Isobutylene (115-11-7)

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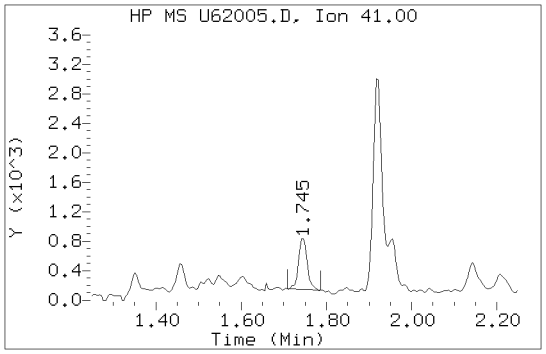
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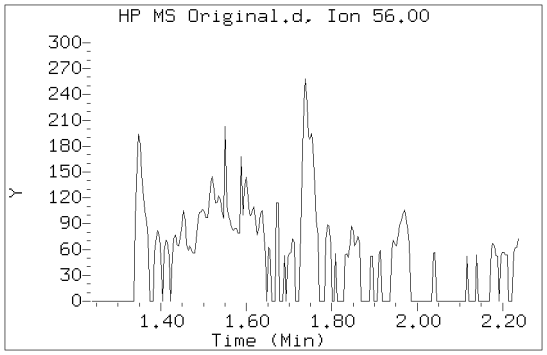
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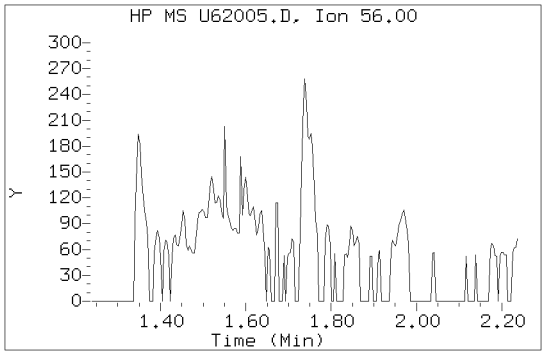
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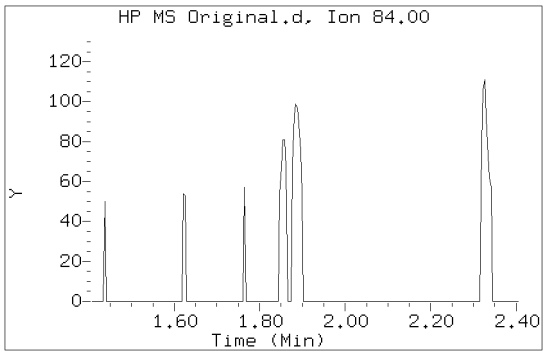
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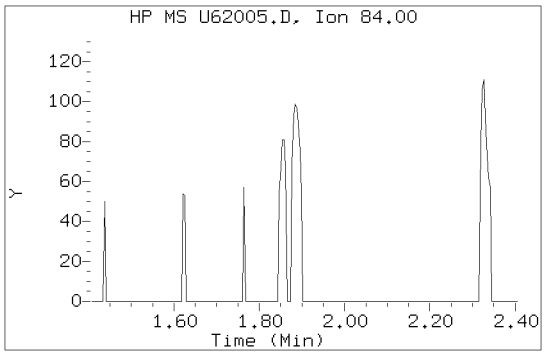
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AFTER

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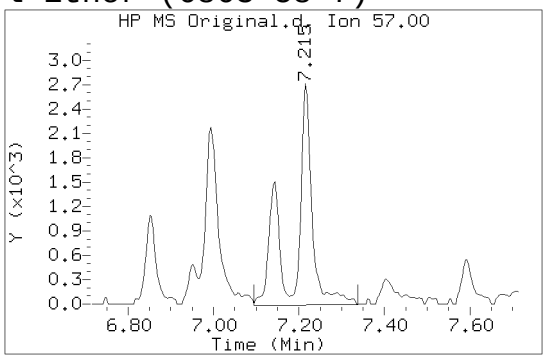
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Inj Date : 20-JUN-2024 12:27
InstruID : VOA9.i
LabSampID : VSTD002

sec-Butyl Ether (6863-58-7)

Reason Code:

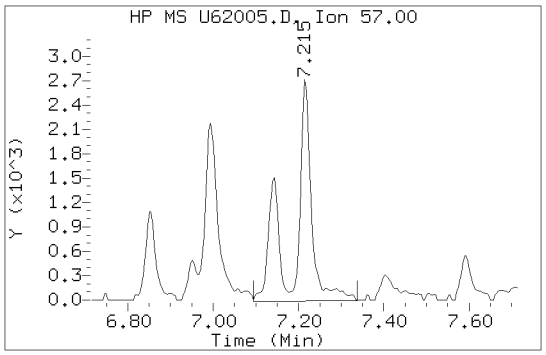
BEFORE

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AFTER

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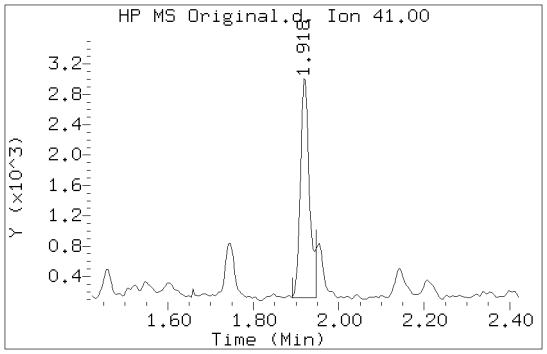


2-Chloropropene (557-98-2)

Reason Code:

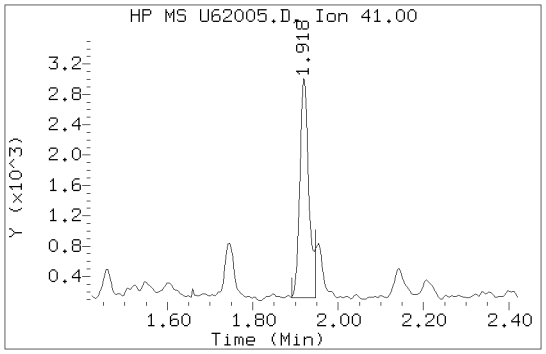
BEFORE

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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
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Inj Date : 20-JUN-2024 12:49
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
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Cal Date : 20-JUN-2024 12:27 Cal File: U62005.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.819	(1.000)	235440	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.243)	9738	5.00000	5.79(M)
3 Chloromethane	50	1.303	1.303	(0.270)	23869	5.00000	4.90
4 Propionitrile	54	4.343	4.343	(0.901)	10856	50.0000	44.48(a)
5 Vinyl Chloride	62	1.385	1.385	(0.288)	11209	5.00000	5.48(M)
6 Bromomethane	94	1.625	1.625	(0.337)	5361	5.00000	4.99
7 Chloroethane	64	1.708	1.708	(0.354)	7341	5.00000	4.94
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	12979	5.00000	5.75
9 Acrolein	56	2.266	2.266	(0.470)	1238	10.0000	11.77(aM)
10 Acetone	43	2.416	2.416	(0.501)	8644	10.0000	7.66
11 1,1-Dichloroethene	96	2.337	2.337	(0.485)	7483	5.00000	5.44
12 Isobutyl Alcohol	43	5.288	5.288	(1.097)	21139	100.000	90.94(a)
13 Acetonitrile	39	2.675	2.675	(0.555)	9127	50.0000	41.35(a)
14 Allyl Chloride	41	2.678	2.678	(0.556)	21197	5.00000	4.51(a)
15 Iodomethane	142	2.472	2.472	(0.513)	4981	10.0000	10.28
16 Acrylonitrile	53	3.072	3.072	(0.638)	6082	10.0000	10.13
17 Methylene Chloride	84	2.798	2.798	(0.581)	11392	5.00000	5.33
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	19601	5.00000	5.21
19 Carbon Disulfide	76	2.525	2.525	(0.524)	38596	10.0000	10.19
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	8011	5.00000	5.02

21 Vinyl Acetate	43	4.347	4.347 (0.902)	8018	10.0000	9.47(M)
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	15421	5.00000	4.95

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.616	3.616	(0.750)	12911	5.00000	5.30
	24 2-Butanone	43	4.272	4.272	(0.886)	7854	10.0000	9.75
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	4226	5.00000	4.84(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	10989	5.00000	5.57
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	9100	5.00000	5.01
	28 Chloroform	83	4.575	4.575	(0.949)	15346	5.00000	4.72
	29 Bromochloromethane	128	4.470	4.470	(0.928)	4848	5.00000	5.14
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	7835	5.00000	5.00
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	11492	5.00000	5.25
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	10630	5.00000	4.99(M)
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	12903	5.00000	4.68
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	8999	5.00000	5.04(M)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	10343	5.00000	5.18
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	349034	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	34656	5.00000	4.82
	38 Trichloroethene	130	5.790	5.790	(1.043)	8866	5.00000	5.08
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	9345	5.00000	4.60(a)
	40 Methyl Methacrylate	41	5.827	5.827	(1.209)	2768	5.00000	4.49(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	225	10.0000	13.73(M)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	9205	5.00000	4.83(a)
	43 2-Nitropropane	43	6.510	6.510	(1.351)	1402	5.00000	3.76(aM)
	44 Dibromomethane	93	6.120	6.120	(1.102)	5487	5.00000	4.94(a)
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	16328	10.0000	9.37
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	10122	5.00000	4.26(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	316123	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	29821	5.00000	4.86(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	9665	5.00000	4.36(a)
	50 Toluene	91	6.982	6.982	(0.853)	35567	5.00000	4.94(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	7790	5.00000	5.67
	52 2-Hexanone	43	7.218	7.218	(0.882)	14994	10.0000	12.04
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	6986	5.00000	5.01
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	14375	5.00000	4.91(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	6171	5.00000	4.24(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	7122	5.00000	5.28
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	7426	5.00000	4.83(a)
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	9239	5.00000	6.24
	59 Chlorobenzene	112	8.212	8.212	(1.003)	24286	5.00000	4.85(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	7220	5.00000	4.66(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	10793	5.00000	4.84(a)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	24956	10.0000	9.38(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	12227	5.00000	4.66(a)
	64 Styrene	104	8.763	8.763	(1.071)	19523	5.00000	4.45(a)
	66 Bromoform	173	8.920	8.920	(1.090)	3703	5.00000	4.75(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	32202	5.00000	4.95(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	11238	5.00000	5.01
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	11651	5.00000	4.83(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	171538	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	10668	5.00000	5.67
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1932	5.00000	4.37(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	35088	5.00000	4.73(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	9708	5.00000	4.81(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	19300	5.00000	4.99(a)

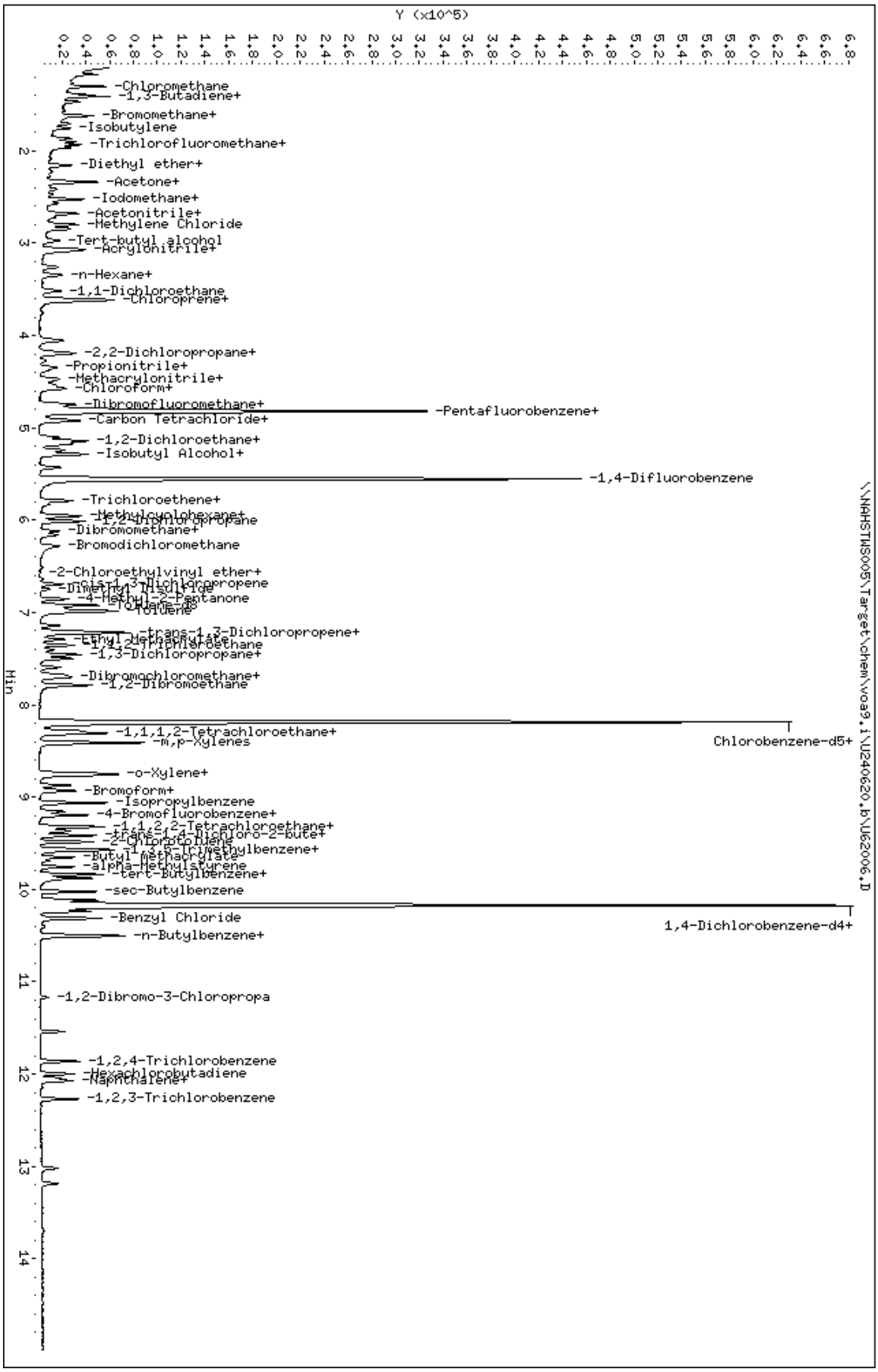
76	2-Chlorotoluene	91	9.482	9.482 (0.932)	25019	5.00000	4.98(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	26961	5.00000	4.73(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	22592	5.00000	4.99(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	23144	5.00000	4.23(aM)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	28993	5.00000	4.81(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	22757	5.00000	5.44
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	17997	5.00000	4.85(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	19458	5.00000	4.91(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	34406	5.00000	7.76
87	n-Butylbenzene	91	10.494	10.494	(1.032)	22522	5.00000	5.61
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	17903	5.00000	4.84(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	1208	5.00000	4.96(a)
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	10011	5.00000	4.48(a)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	4937	5.00000	4.98(a)
92	Naphthalene	128	12.073	12.073	(1.187)	17811	5.00000	5.24
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	9533	5.00000	4.66(a)
146	Methyl acetate	43	2.720	2.720	(0.564)	7064	5.00000	3.51(a)
138	Freon TF	101	2.337	2.337	(0.485)	7208	5.00000	5.23
141	Cyclohexane	56	4.785	4.785	(0.993)	15051	5.00000	5.79
142	Tetrahydrofuran	42	4.545	4.545	(0.943)	2459	10.0000	8.81
147	Methylcyclohexane	55	5.951	5.951	(1.072)	16598	5.00000	4.47(a)
135	1,4-Dioxane	88	6.168	6.168	(1.280)	2383	100.000	103.05
132	n-Butanol	56	5.831	5.831	(1.210)	4104	100.000	97.79(a)
136	n-Hexane	57	3.346	3.346	(0.694)	8771	5.00000	5.81
139	Diethyl ether	59	2.150	2.150	(0.446)	5732	5.00000	4.13(a)
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	14781	100.000	98.48
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	10801	100.000	90.46(T)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	25524	5.00000	4.49(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	12122	5.00000	4.16(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	35810	5.00000	4.82(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	20377	5.00000	4.15(a)
167	Ethanol	45	2.086	2.086	(0.433)	1968	100.000	77.53
172	tert-Butyl formate	59	5.243	5.243	(1.088)	11690	10.0000	10.09(M)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	40067	100.000	83.23
140	1,3-Butadiene	54	1.408	1.408	(0.292)	11141	5.00000	5.51
182	Epichlorohydrin	57	6.630	6.630	(1.194)	777	20.0000	18.19(M)
M 94	1,2-Dichloroethylene (total)	96				17111	10.0000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.941)	3383	5.00000	4.22(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.907)	8952	5.00000	4.58(a)
189	n-Butyl acetate	43	7.705	7.705	(0.941)	12041	5.00000	4.77(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	8867	100.000	94.58(a)
185	Isoprene	39	2.161	2.161	(0.449)	1836	5.00000	5.37
188	Isopropyl acetate	43	5.288	5.288	(0.952)	21512	5.00000	4.60(a)
150	Allyl alcohol	57	3.346	3.346	(0.694)	8771	100.000	116.20
194	Acetaldehyde	44	1.468	1.468	(0.305)	9309	20.0000	23.65(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	3175	5.00000	4.27(a)
202	Isobutylene	41	1.756	1.756	(0.364)	3625	5.00000	5.80(M)
133	Ethyl Acrylate	55	5.951	5.951	(1.235)	16566	5.00000	4.47(a)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	7663	5.00000	3.85(a)
159	Propylene oxide	43	2.206	2.206	(0.458)	1225	10.0000	11.38
178	Ethylene oxide	44	1.614	1.614	(0.335)	17289	10.0000	9.89(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	5299	5.00000	4.17(a)
204	Tetrahydrothiophene	60	7.675	7.675	(0.938)	7905	5.00000	4.40(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	15623	5.00000	4.42(aAM)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	13473	5.00000	4.81(aM)
206 2-Chloropropene	41	1.932	1.932 (0.401)	11837	5.00000	4.89(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Date : 20-JUN-2024 12:49
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Page 1

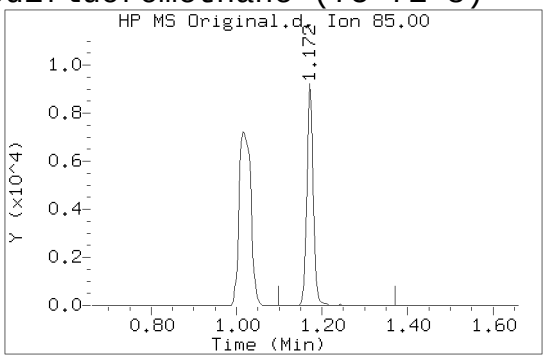
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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

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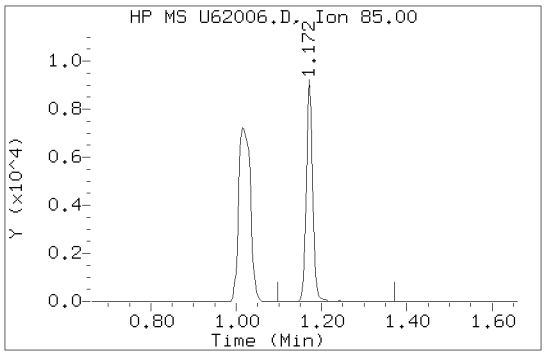
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12:15
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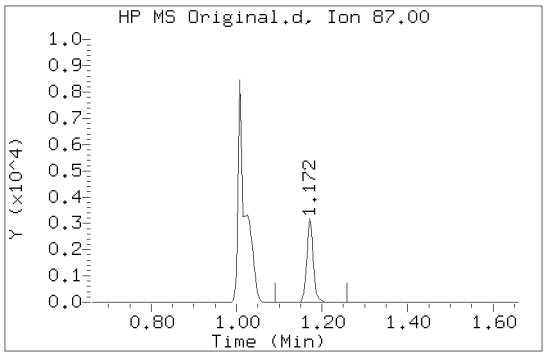
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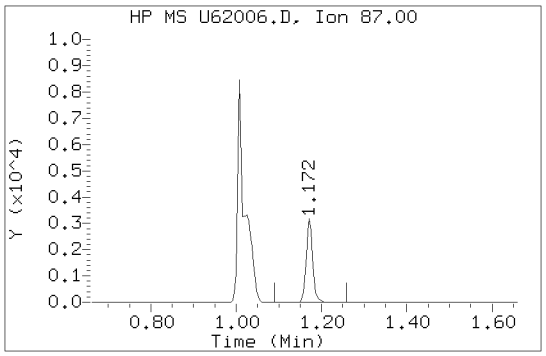
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AFTER

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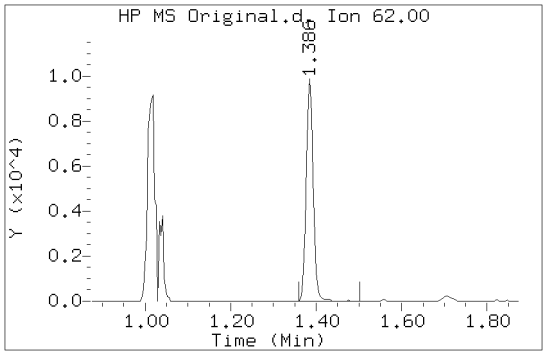


Vinyl Chloride (75-01-4)

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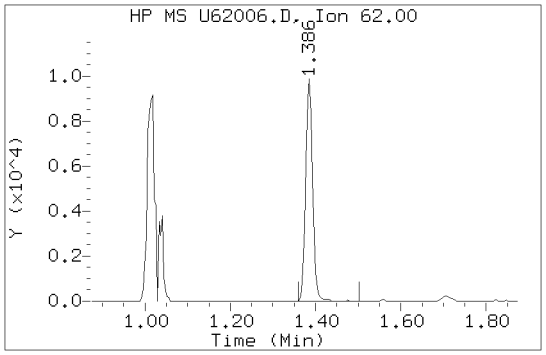
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12:15
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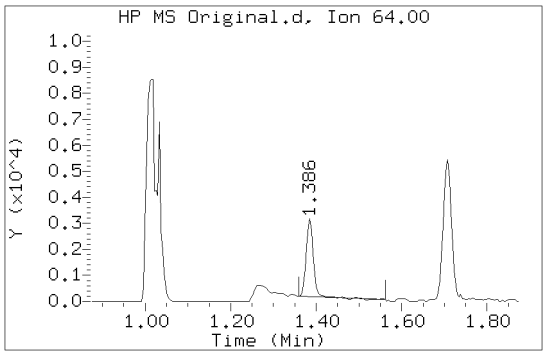
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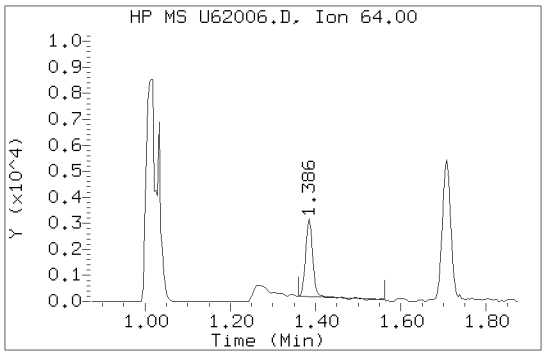
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AFTER

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29-Jun-2024
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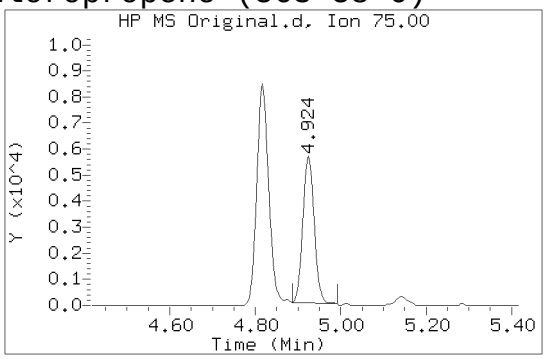
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InstruID : VOA9.i
LabSampID : VSTD005

1,1-Dichloropropene (563-58-6)

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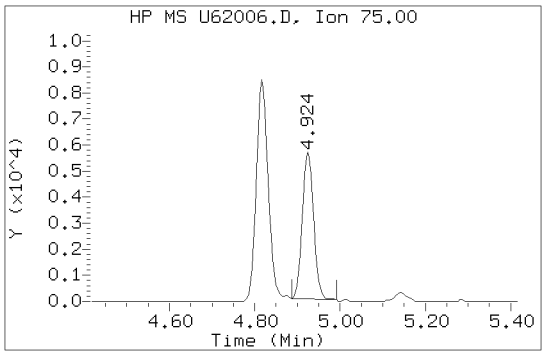
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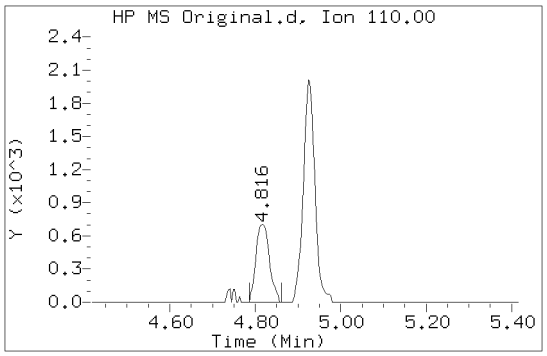
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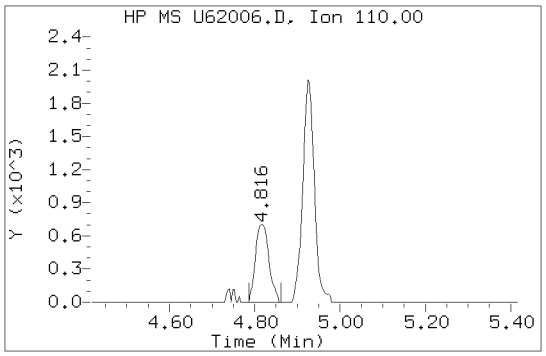
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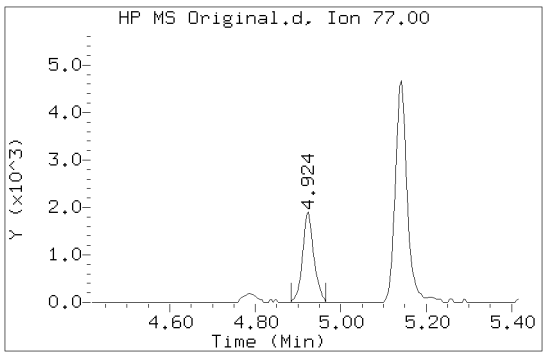
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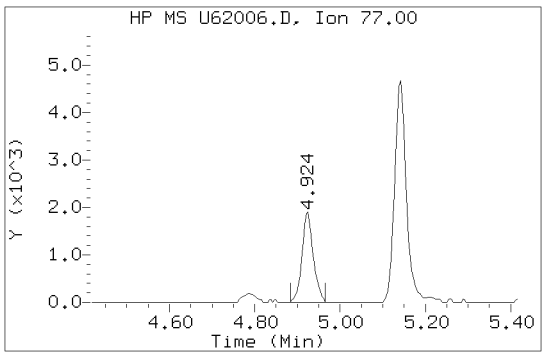
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AFTER

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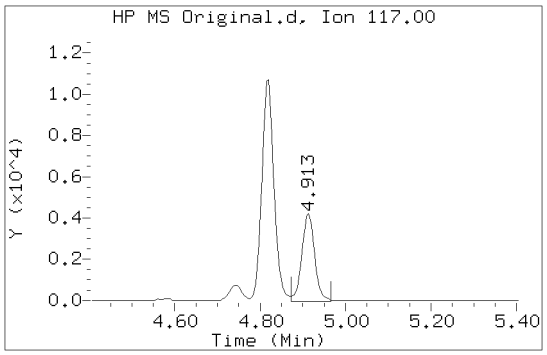


Carbon Tetrachloride (56-23-5)

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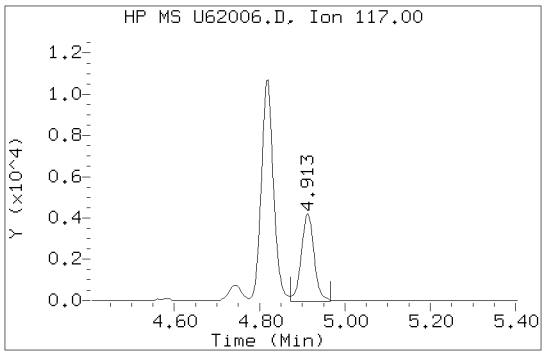
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29-Jun-2024
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AFTER

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29-Jun-2024
12:15
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zaid

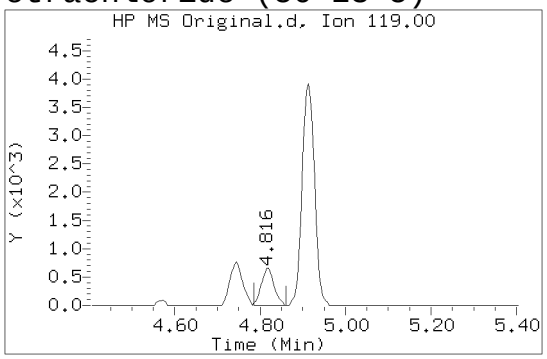


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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Carbon Tetrachloride (56-23-5)

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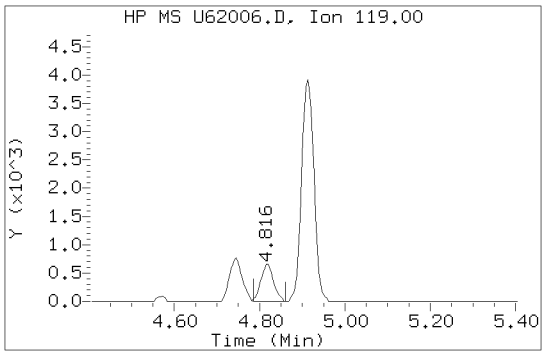
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AFTER

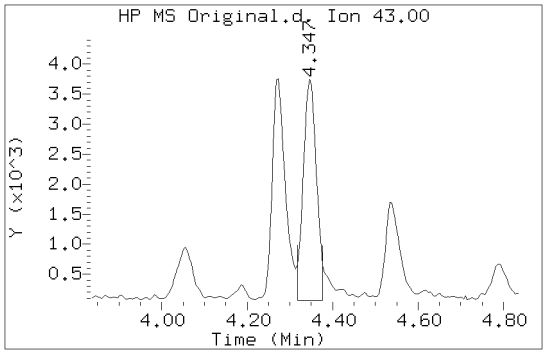
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Vinyl Acetate (108-05-4)

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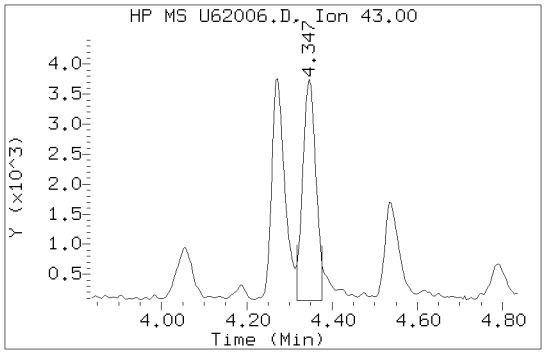
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Reason Code:

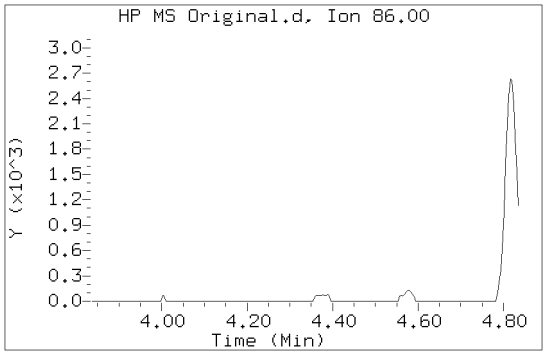
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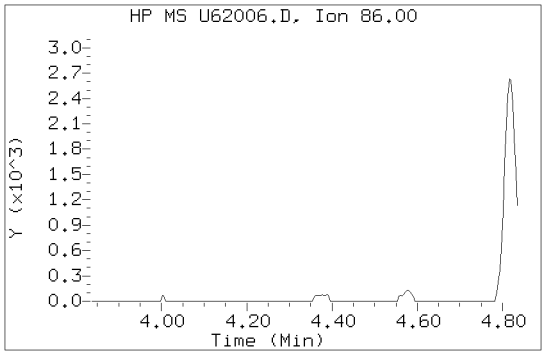
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AFTER

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12:15
s
zaid

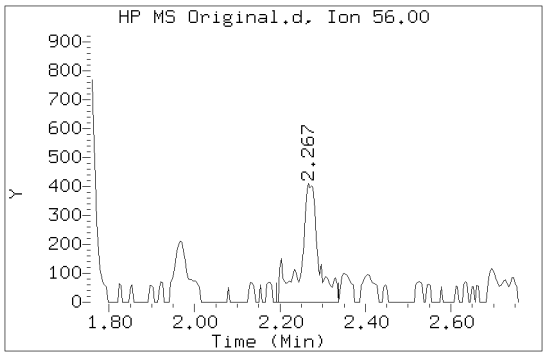


Acrolein (107-02-8)

Reason Code:

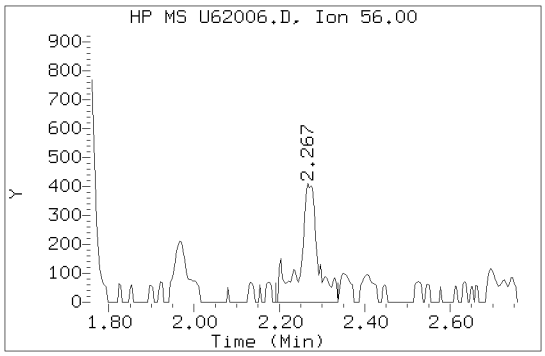
BEFORE

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AFTER

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HEIGHT
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29-Jun-2024
12:15
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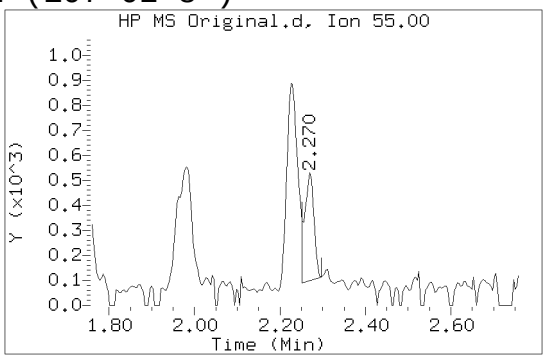
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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Acrolein (107-02-8)

Reason Code:

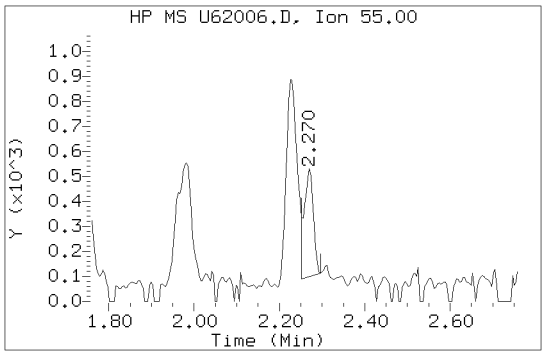
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AFTER

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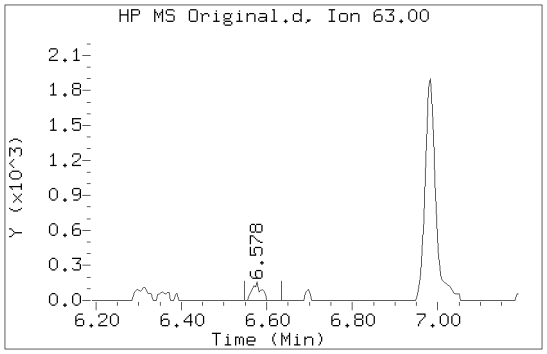


2-Chloroethylvinyl ether (110-75-8)

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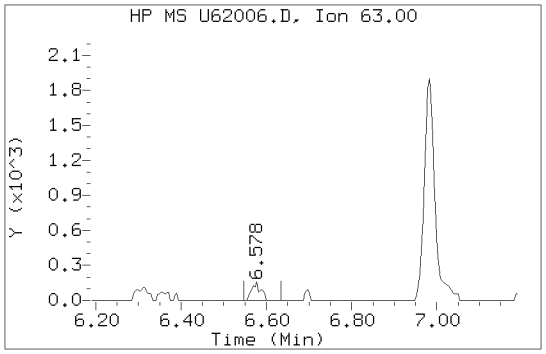
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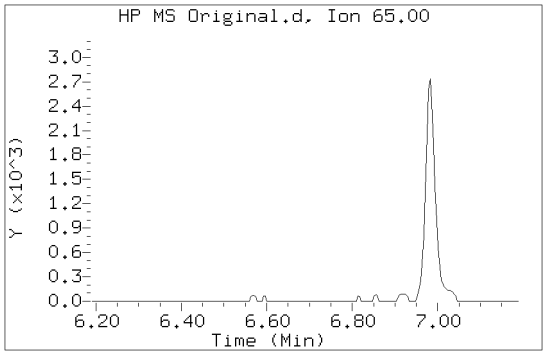
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12:15
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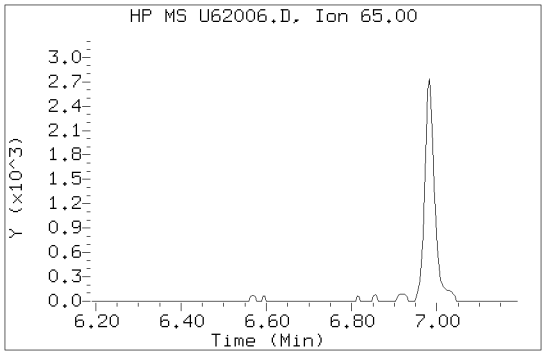
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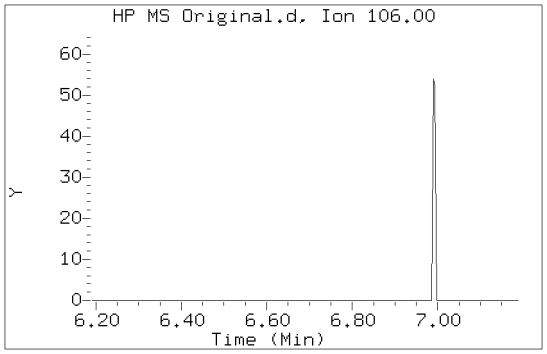
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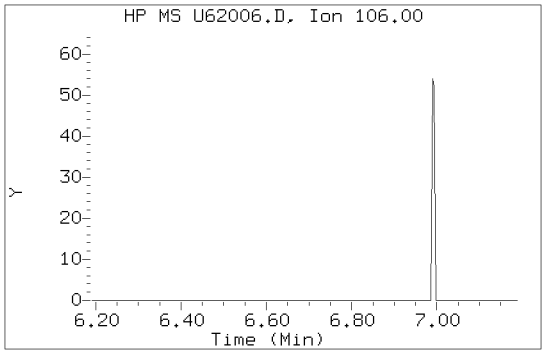
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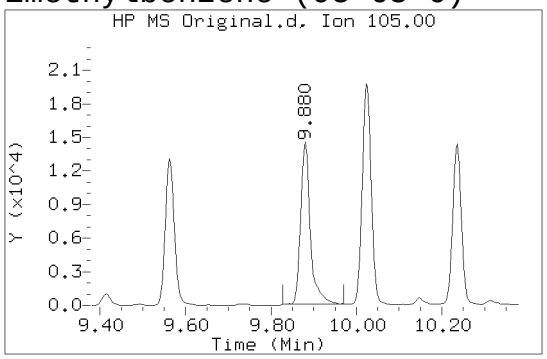
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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

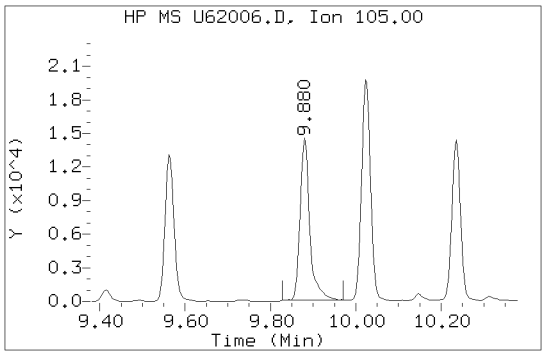
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s
zaid



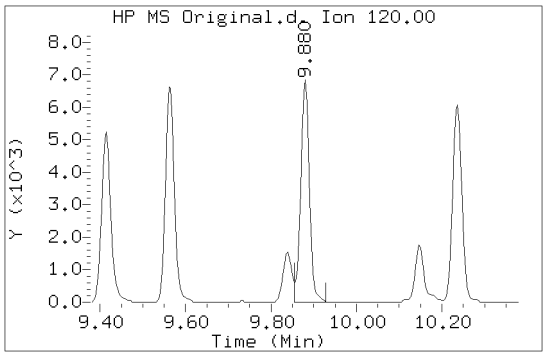
AFTER

MASS
105
AREA
23144
HEIGHT
14484
29-Jun-2024
12:15
s
zaid



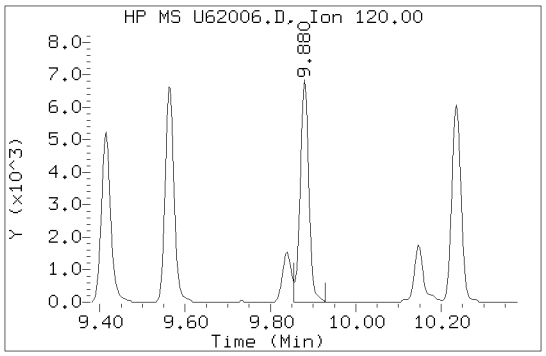
BEFORE

MASS
120
AREA
9913
HEIGHT
6845
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
9913
HEIGHT
6845
29-Jun-2024
12:15
s
zaid

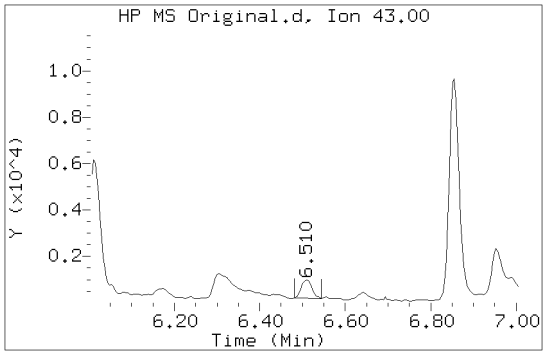


2-Nitropropane (79-46-9)

Reason Code:

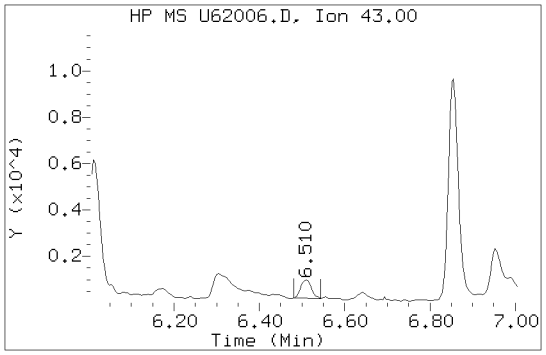
BEFORE

MASS
43
AREA
1402
HEIGHT
775
29-Jun-2024
12:15
s
zaid



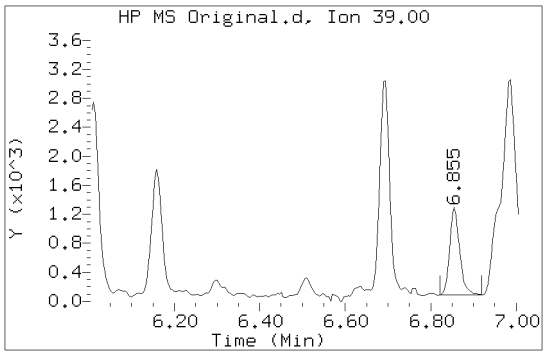
AFTER

MASS
43
AREA
1402
HEIGHT
775
29-Jun-2024
12:15
s
zaid



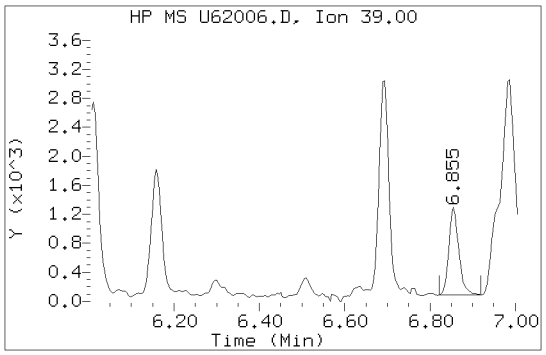
BEFORE

MASS
39
AREA
1960
HEIGHT
1216
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
1960
HEIGHT
1216
29-Jun-2024
12:15
s
zaid



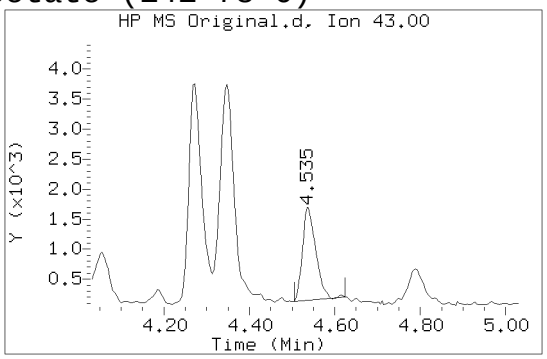
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Ethyl Acetate (141-78-6)

Reason Code:

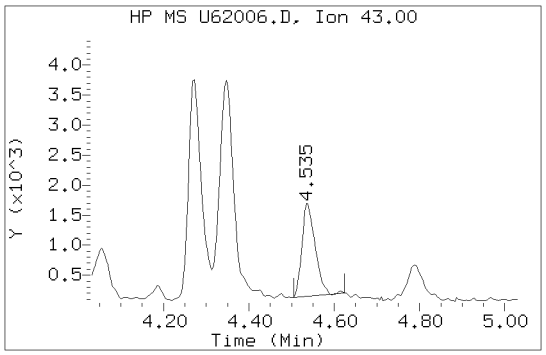
BEFORE

MASS
43
AREA
3383
HEIGHT
1548
29-Jun-2024
12:15
s
zaid



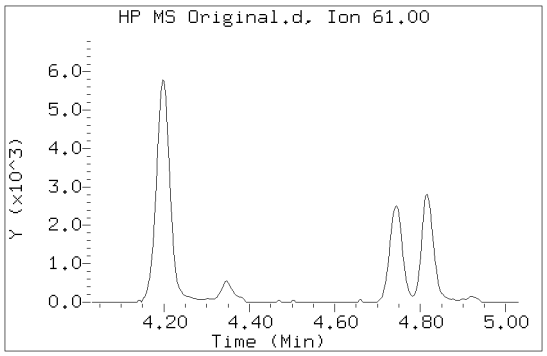
AFTER

MASS
43
AREA
3383
HEIGHT
1548
29-Jun-2024
12:15
s
zaid



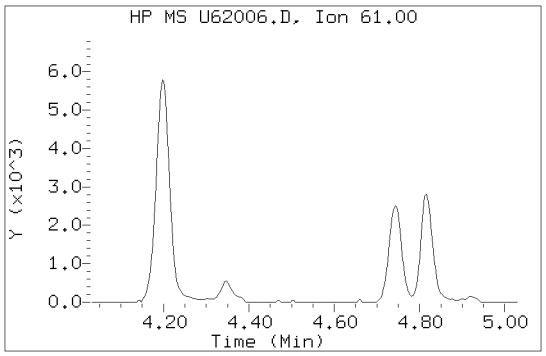
BEFORE

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



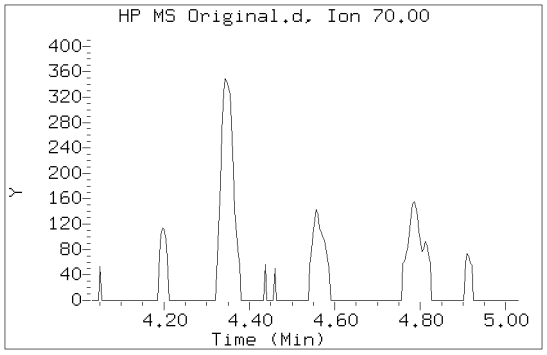
AFTER

MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



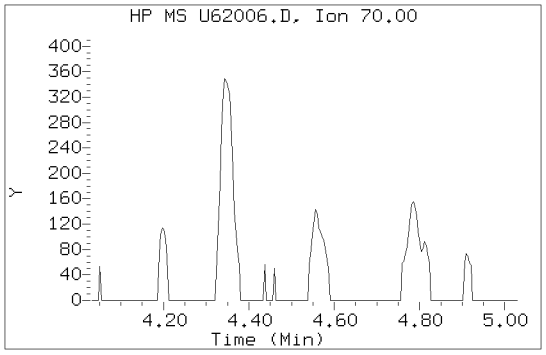
BEFORE

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

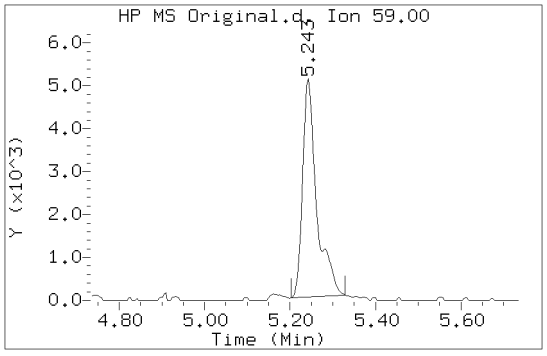


tert-Butyl formate (762-75-4)

Reason Code:

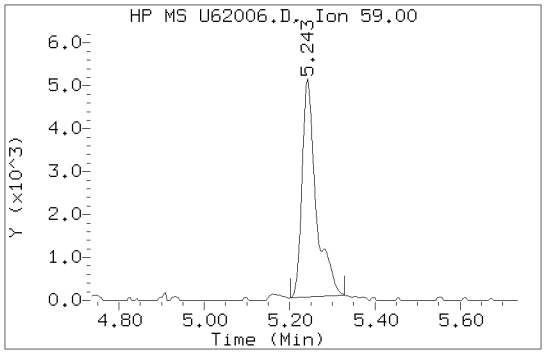
BEFORE

MASS
59
AREA
11690
HEIGHT
5087
29-Jun-2024
12:15
s
zaid



AFTER

MASS
59
AREA
11690
HEIGHT
5087
29-Jun-2024
12:15
s
zaid



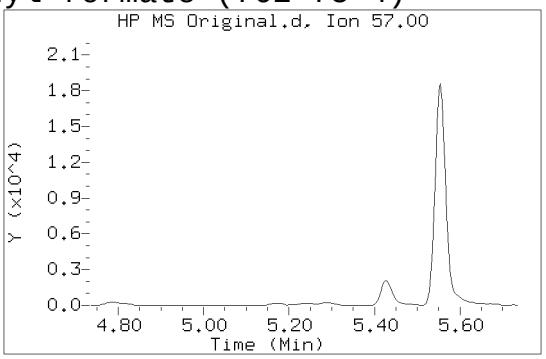
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

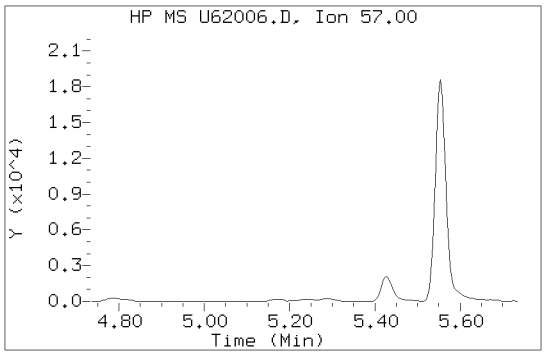
BEFORE

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



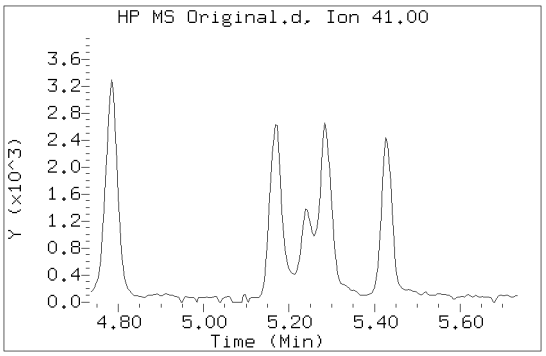
AFTER

MASS
57
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



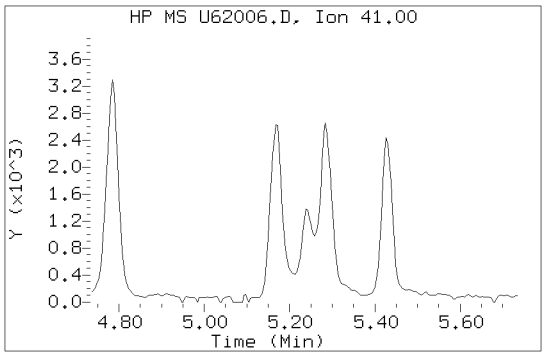
BEFORE

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

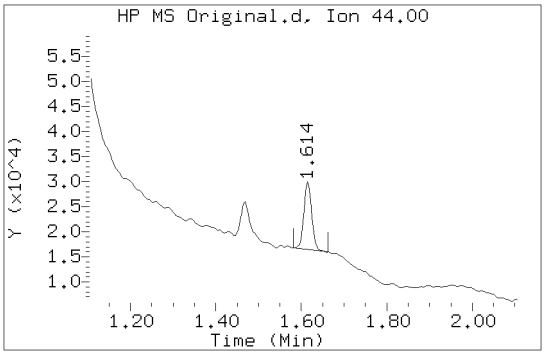


Ethylene oxide (75-21-8)

Reason Code:

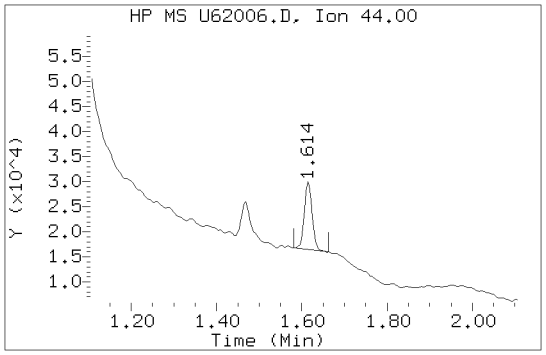
BEFORE

MASS
44
AREA
17289
HEIGHT
13619
29-Jun-2024
12:15
s
zaid



AFTER

MASS
44
AREA
17289
HEIGHT
13619
29-Jun-2024
12:15
s
zaid

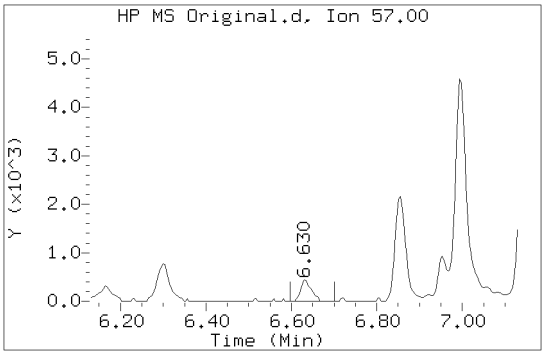


Epichlorohydrin (106-89-8)

Reason Code:

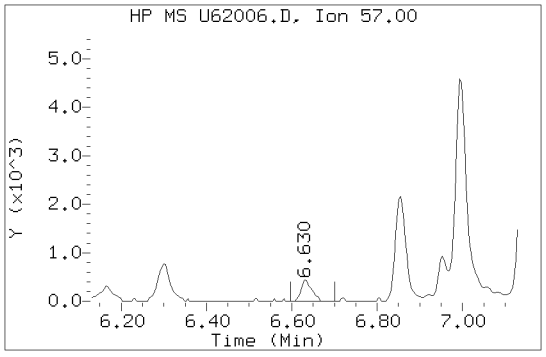
BEFORE

MASS
57
AREA
777
HEIGHT
444
29-Jun-2024
12:15
s
zaid



AFTER

MASS
57
AREA
777
HEIGHT
444
29-Jun-2024
12:15
s
zaid



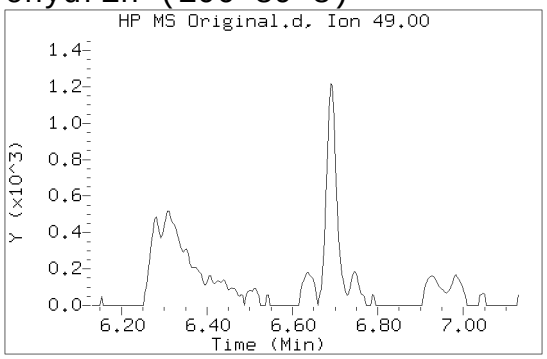
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62006.D
Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Epichlorohydrin (106-89-8)

Reason Code:

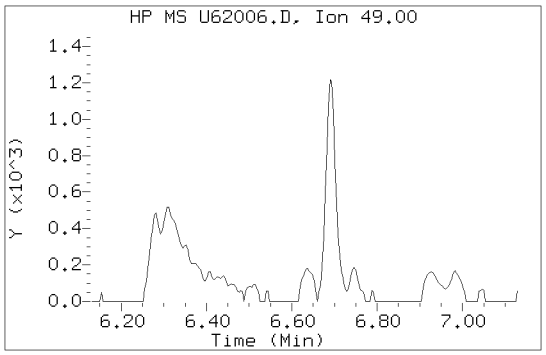
BEFORE

MASS
49
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
49
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

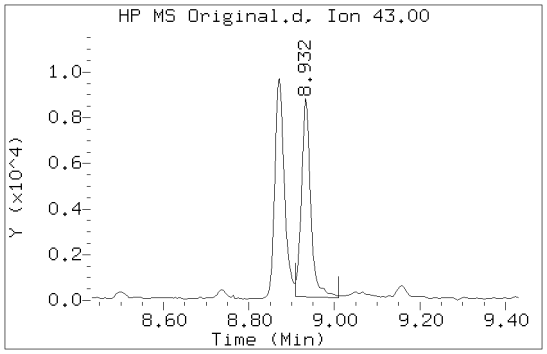


n-Amyl acetate (628-63-7)

Reason Code:

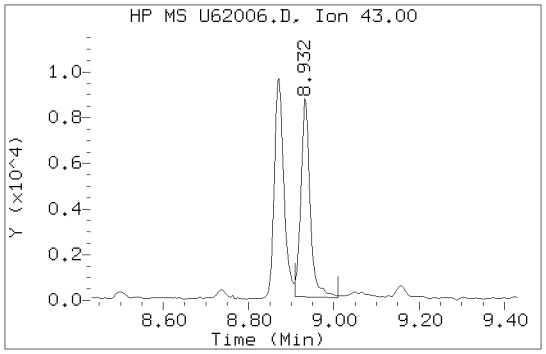
BEFORE

MASS
43
AREA
13473
HEIGHT
8674
29-Jun-2024
12:15
s
zaid



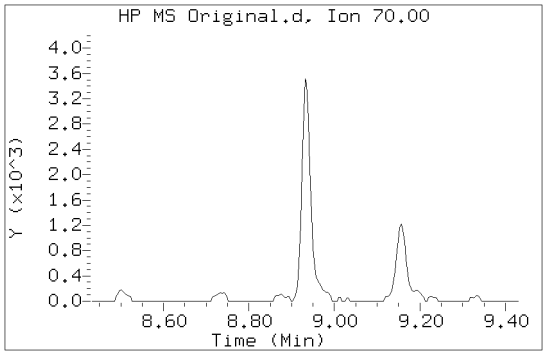
AFTER

MASS
43
AREA
13473
HEIGHT
8674
29-Jun-2024
12:15
s
zaid



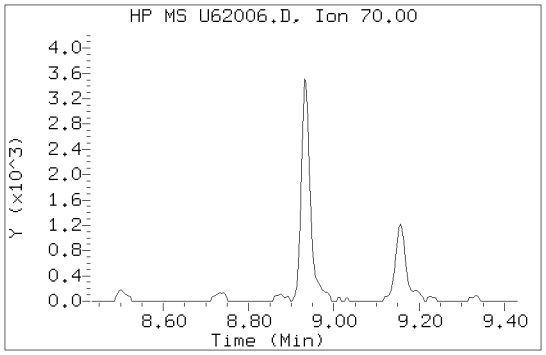
BEFORE

MASS
70
AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



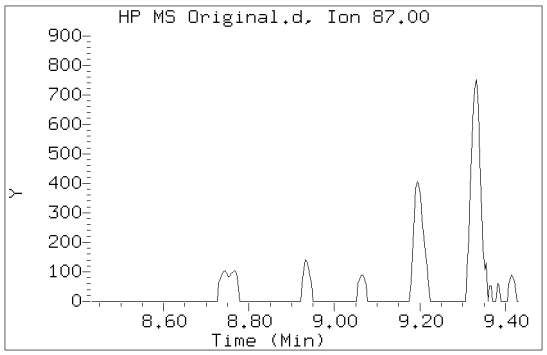
AFTER

MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



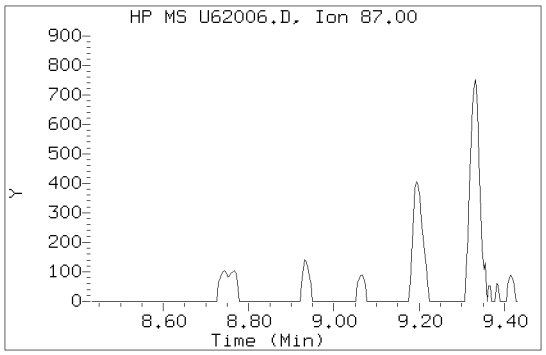
BEFORE

MASS
87
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



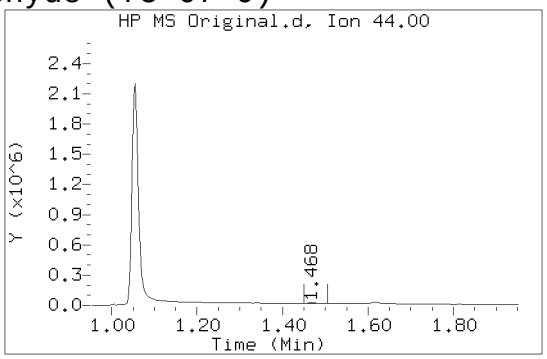
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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

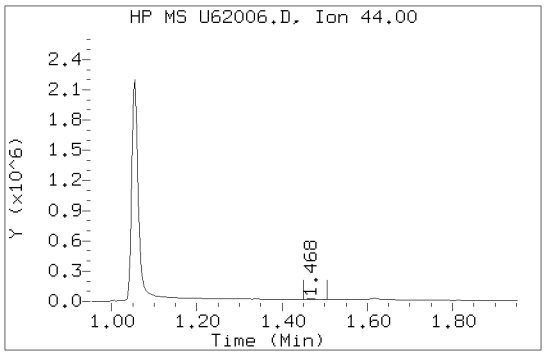
BEFORE

MASS
44
AREA
9309
HEIGHT
6895
29-Jun-2024
12:15
s
zaid



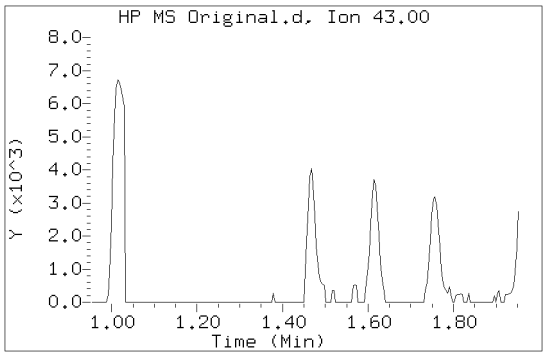
AFTER

MASS
44
AREA
9309
HEIGHT
6895
29-Jun-2024
12:15
s
zaid



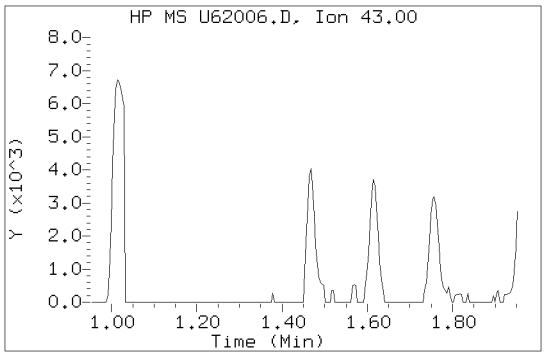
BEFORE

MASS
43
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



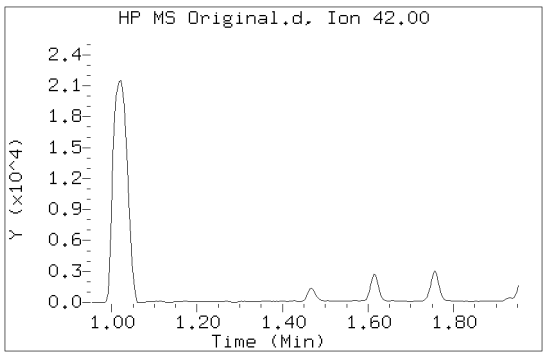
AFTER

MASS
43
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



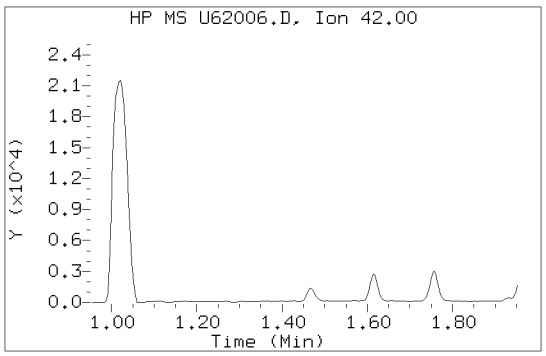
BEFORE

MASS
42
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
42
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

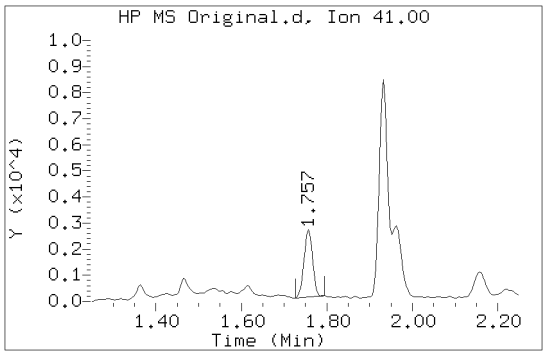


Isobutylene (115-11-7)

Reason Code:

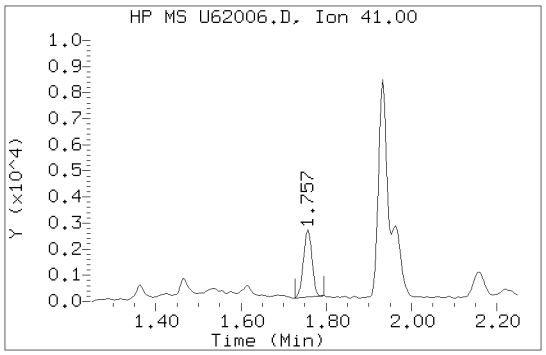
BEFORE

MASS
41
AREA
3625
HEIGHT
2595
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
3625
HEIGHT
2595
29-Jun-2024
12:15
s
zaid



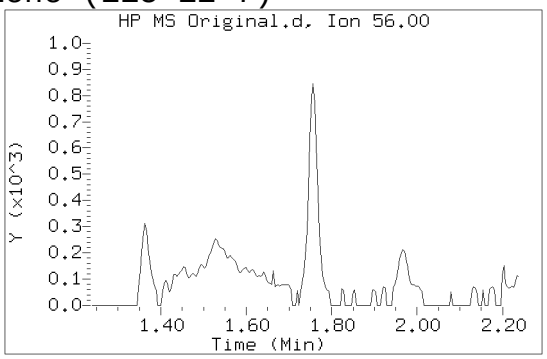
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Inj Date : 20-JUN-2024 12:49
InstruID : VOA9.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

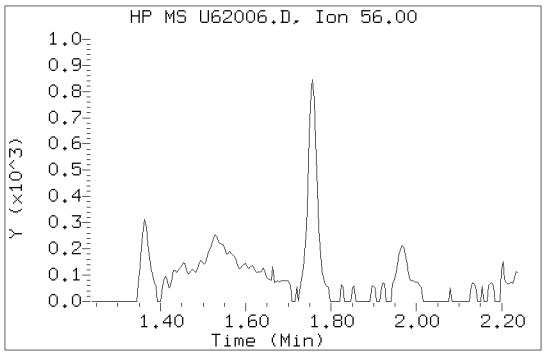
BEFORE

MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



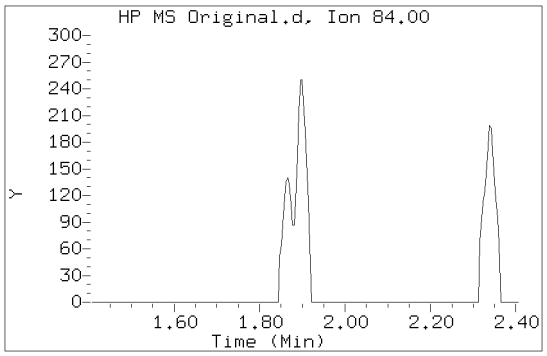
AFTER

MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



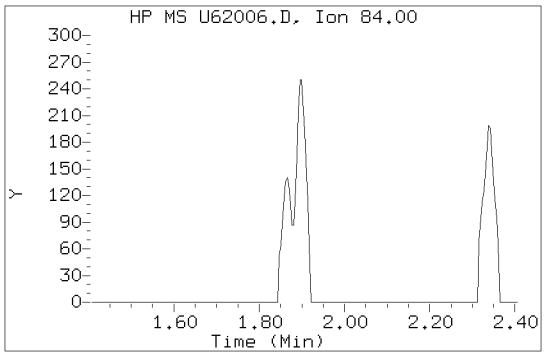
BEFORE

MASS
84
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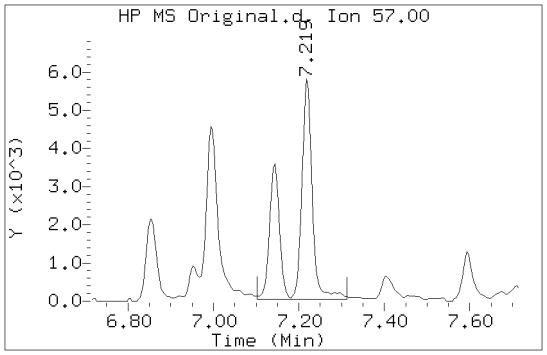


sec-Butyl Ether (6863-58-7)

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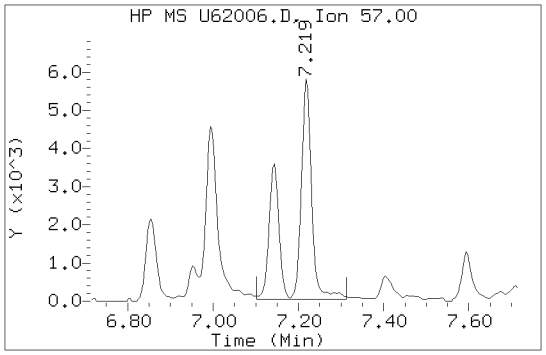
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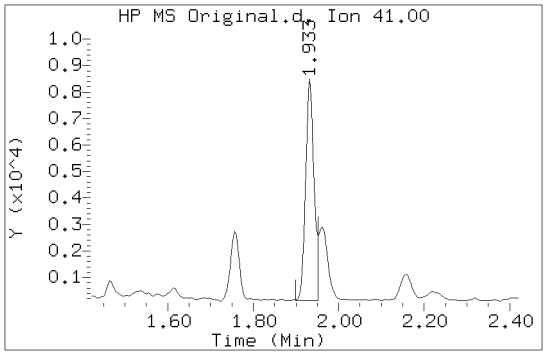


2-Chloropropene (557-98-2)

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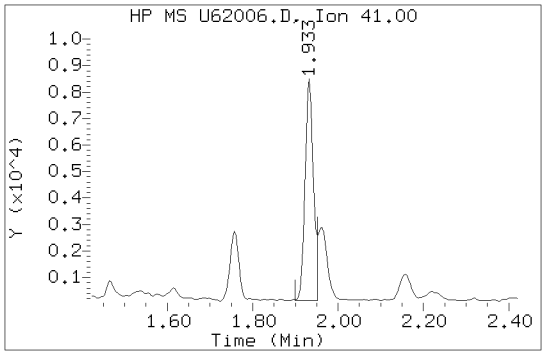
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D Page 1
Report Date: 29-Jun-2024 12:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
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Inj Date : 20-JUN-2024 13:10
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V9;WATER;0;1;
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Meth Date : 29-Jun-2024 12:19 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 11:44 Cal File: U62003.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	254049	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	38140	20.0000	21.02(M)
3 Chloromethane	50	1.299	1.299	(0.270)	86062	20.0000	20.28
4 Propionitrile	54	4.335	4.335	(0.900)	47549	200.000	200.52(a)
5 Vinyl Chloride	62	1.382	1.382	(0.287)	45157	20.0000	20.12(M)
6 Bromomethane	94	1.618	1.618	(0.336)	19198	20.0000	21.90
7 Chloroethane	64	1.700	1.700	(0.353)	29401	20.0000	20.22
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	52599	20.0000	21.61
9 Acrolein	56	2.262	2.262	(0.470)	3234	40.0000	38.14
10 Acetone	43	2.409	2.409	(0.500)	28441	40.0000	39.38
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	30061	20.0000	20.28
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	92132	400.000	367.35(a)
13 Acetonitrile	39	2.671	2.671	(0.555)	39916	200.000	199.51(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	93616	20.0000	20.04(a)
15 Iodomethane	142	2.465	2.465	(0.512)	20114	40.0000	36.74
16 Acrylonitrile	53	3.065	3.065	(0.636)	25226	40.0000	40.39
17 Methylene Chloride	84	2.795	2.795	(0.580)	38417	20.0000	20.28
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	87519	20.0000	20.28
19 Carbon Disulfide	76	2.521	2.521	(0.524)	163219	40.0000	39.96
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	32296	20.0000	20.46

21 Vinyl Acetate	43	4.339	4.339 (0.901)	34793	40.0000	39.07
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	62083	20.0000	20.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	51433	20.0000	20.26
	24 2-Butanone	43	4.264	4.264	(0.886)	33931	40.0000	38.62
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	19125	20.0000	17.69(aM)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	44921	20.0000	19.54
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	36622	20.0000	19.71
	28 Chloroform	83	4.572	4.572	(0.949)	62582	20.0000	20.32
	29 Bromochloromethane	128	4.467	4.467	(0.928)	19233	20.0000	18.91
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	33666	20.0000	19.95
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	48589	20.0000	20.60
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	45303	20.0000	20.23(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	51020	20.0000	20.77
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	37608	20.0000	20.03(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	42857	20.0000	19.91
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	367092	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	141532	20.0000	18.73
	38 Trichloroethene	130	5.786	5.786	(1.043)	35944	20.0000	19.60
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	40094	20.0000	18.77
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	12994	20.0000	19.54(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	1519	40.0000	37.98(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	37404	20.0000	18.69
	43 2-Nitropropane	43	6.506	6.506	(1.351)	7117	20.0000	17.71(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	22269	20.0000	19.06
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	68344	40.0000	37.63
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	46931	20.0000	18.81
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	329541	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	125647	20.0000	19.64
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	44580	20.0000	19.12(a)
	50 Toluene	91	6.978	6.978	(0.853)	150132	20.0000	20.00
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	38067	20.0000	18.30
	52 2-Hexanone	43	7.214	7.214	(0.881)	53773	40.0000	43.58
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	27714	20.0000	19.10
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	58809	20.0000	19.28
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	29986	20.0000	19.80
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	29084	20.0000	20.71
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	31039	20.0000	19.38
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	28802	20.0000	19.94
	59 Chlorobenzene	112	8.208	8.208	(1.003)	96445	20.0000	20.69
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	31402	20.0000	19.48
	61 Ethylbenzene	106	8.305	8.305	(1.015)	47392	20.0000	20.40
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	118342	40.0000	42.68
	63 o-Xylene	106	8.748	8.748	(1.069)	58330	20.0000	21.35
	64 Styrene	104	8.763	8.763	(1.071)	93490	20.0000	20.46
	66 Bromoform	173	8.920	8.920	(1.090)	17069	20.0000	17.63
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	145388	20.0000	21.44
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	46115	20.0000	20.31
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	47575	20.0000	18.93
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	182323	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	43891	20.0000	19.62
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	8831	20.0000	19.17(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	167474	20.0000	21.24
	74 Bromobenzene	156	9.318	9.318	(0.916)	40710	20.0000	19.00
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	101450	20.0000	18.00

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	105758	20.0000	19.82
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	122560	20.0000	20.24

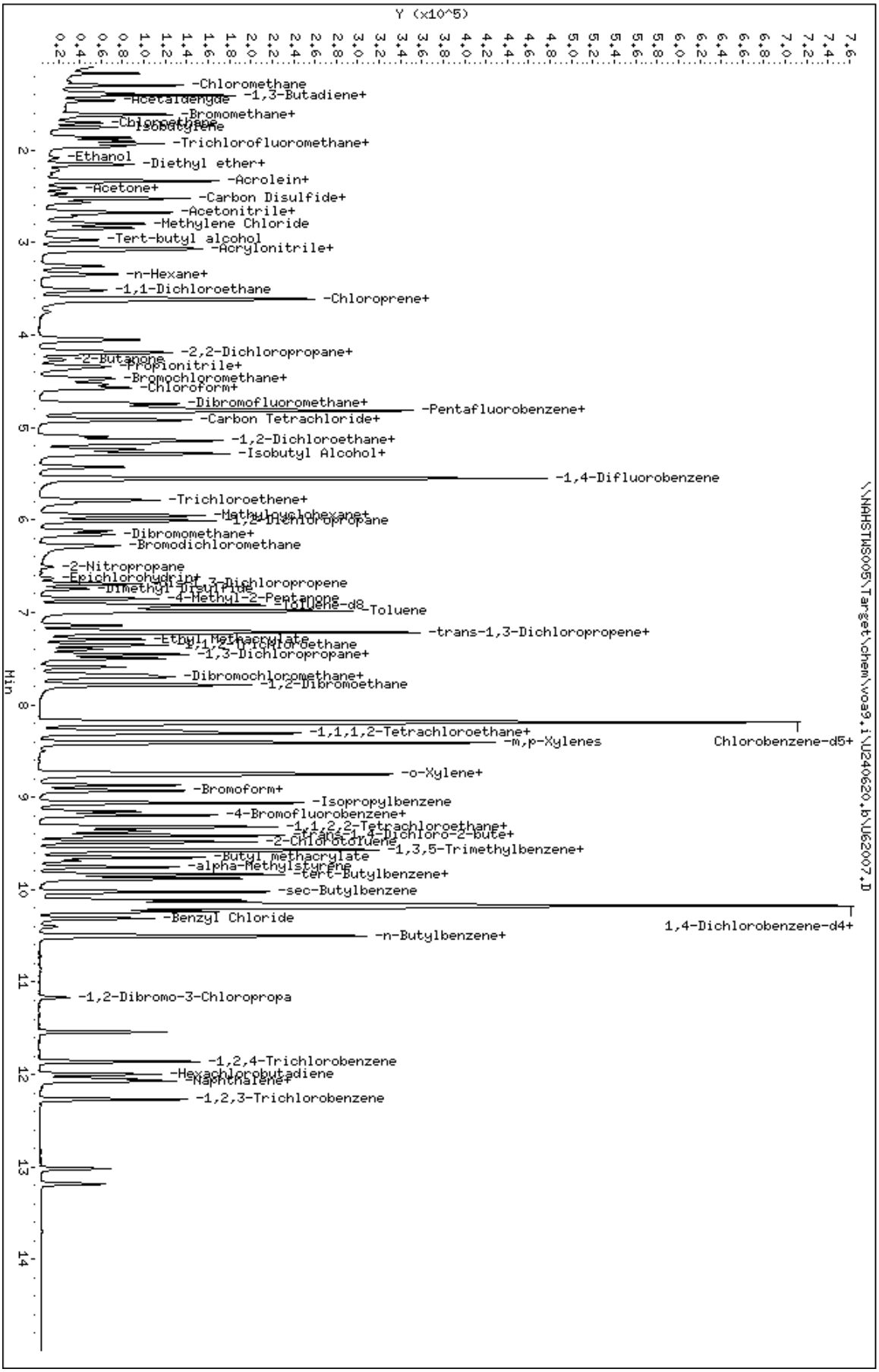
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	102979	20.0000	21.43
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	96167	20.0000	16.57(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	135005	20.0000	21.09
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	106929	20.0000	18.41
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	73042	20.0000	18.53
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	78002	20.0000	20.29
86	Benzyl Chloride	91	10.311	10.311	(1.260)	69765	20.0000	20.22
87	n-Butylbenzene	91	10.495	10.495	(1.032)	99934	20.0000	19.10
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	73575	20.0000	18.74
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	5187	20.0000	19.09
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	44801	20.0000	18.86
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	20604	20.0000	19.57
92	Naphthalene	128	12.069	12.069	(1.186)	87164	20.0000	17.07
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	41467	20.0000	19.07
146	Methyl acetate	43	2.712	2.712	(0.563)	28405	20.0000	20.14
138	Freon TF	101	2.334	2.334	(0.485)	28842	20.0000	20.84
141	Cyclohexane	56	4.782	4.782	(0.993)	50211	20.0000	19.92
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	11599	40.0000	38.55
147	Methylcyclohexane	55	5.947	5.947	(1.072)	76325	20.0000	19.58
135	1,4-Dioxane	88	6.169	6.169	(1.281)	8369	400.000	421.83
132	n-Butanol	56	5.824	5.824	(1.209)	17102	400.000	377.93(a)
136	n-Hexane	57	3.342	3.342	(0.694)	34407	20.0000	21.12(T)
139	Diethyl ether	59	2.146	2.146	(0.446)	25476	20.0000	20.10
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	60372	400.000	407.83
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	48459	400.000	424.55(T)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	112384	20.0000	18.34(T)
162	Butyl acrylate	55	8.733	8.733	(1.067)	58370	20.0000	19.24
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	152026	20.0000	19.25
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	87899	20.0000	16.85
167	Ethanol	45	2.083	2.083	(0.433)	9302	400.000	419.20
172	tert-Butyl formate	59	5.239	5.239	(1.088)	47930	40.0000	40.22
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	193343	400.000	381.90
140	1,3-Butadiene	54	1.404	1.404	(0.292)	44943	20.0000	20.60
182	Epichlorohydrin	57	6.630	6.630	(1.195)	4024	80.0000	69.51
M 94	1,2-Dichloroethylene (total)	96				68918	40.0000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	36586	20.0000	18.30
130	Ethyl Acetate	43	4.530	4.530	(0.941)	14253	20.0000	22.69(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	37588	20.0000	17.85
189	n-Butyl acetate	43	7.706	7.706	(0.941)	52879	20.0000	20.12
134	Cyclohexanone	55	9.153	9.153	(0.900)	37033	400.000	394.04(a)
185	Isoprene	39	2.158	2.158	(0.448)	7678	20.0000	20.81
188	Isopropyl acetate	43	5.284	5.284	(0.952)	92557	20.0000	18.85
150	Allyl alcohol	57	3.342	3.342	(0.694)	34407	400.000	422.44
194	Acetaldehyde	44	1.464	1.464	(0.304)	34408	80.0000	81.02(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	17763	20.0000	16.88
202	Isobutylene	41	1.753	1.753	(0.364)	16468	20.0000	20.24(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	76325	20.0000	19.09
163	Butyl methacrylate	41	9.651	9.651	(0.949)	41093	20.0000	21.89
159	Propylene oxide	43	2.202	2.202	(0.457)	4192	40.0000	36.11
178	Ethylene oxide	44	1.610	1.610	(0.334)	73276	40.0000	38.85(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	29847	20.0000	16.54
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	36596	20.0000	19.54(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	68567	20.0000	18.62(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	58869	20.0000	20.19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.925	1.925	(0.400)	53299	20.0000	20.43(AM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.


Y (x10^5)
Min
-Chloromethane
-Acetaldehyde
-1,3-Butadiene+
-Bromomethane+
-Chloroethene
Isobutylene
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether+
-Acrolein+
-Acetone+
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-2,2-Dichloropropane+
-2-Butanone
-Propionitrile+
-Bromochloromethane+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane
-Epichlorohydrin
-Dimethyl Disulfide
-4-Methyl-2-Pentanone
Toluene-d8
Toluene
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate
1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane+
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
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Instrument: WOA9,i
Operator: TS
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Page 1

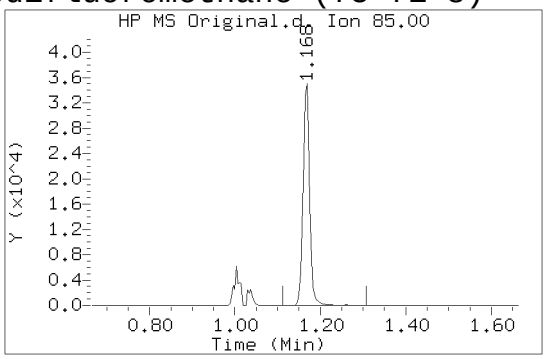
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LabSampID : VSTD020

Dichlorodifluoromethane (75-71-8)

Reason Code:

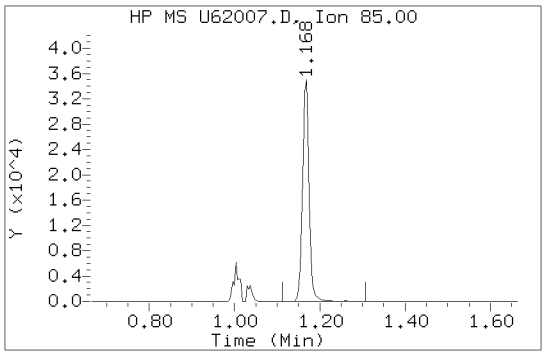
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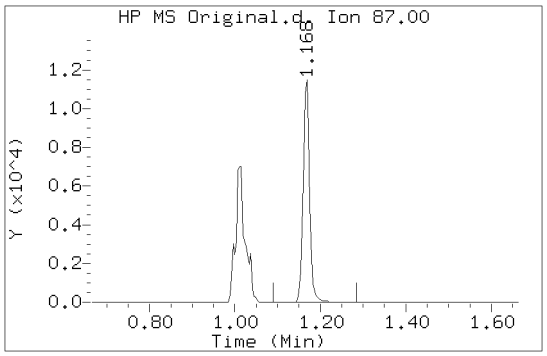
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29-Jun-2024
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zaid



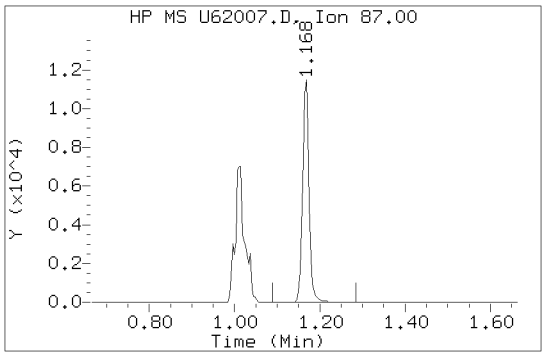
BEFORE

MASS
87
AREA
12254
HEIGHT
11482
29-Jun-2024
12:15
s
zaid



AFTER

MASS
87
AREA
12254
HEIGHT
11482
29-Jun-2024
12:18
s
zaid

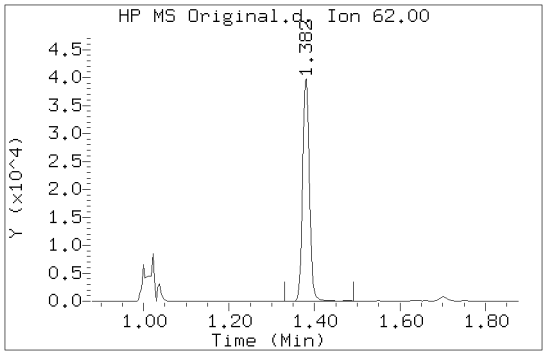


Vinyl Chloride (75-01-4)

Reason Code:

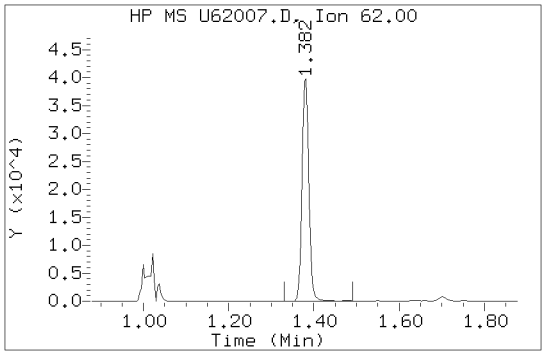
BEFORE

MASS
62
AREA
45157
HEIGHT
39760
29-Jun-2024
12:15
s
zaid



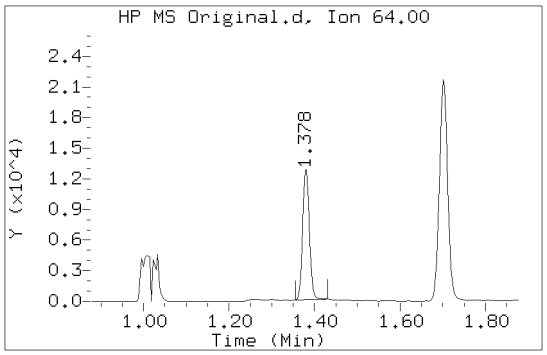
AFTER

MASS
62
AREA
45157
HEIGHT
39760
29-Jun-2024
12:18
s
zaid



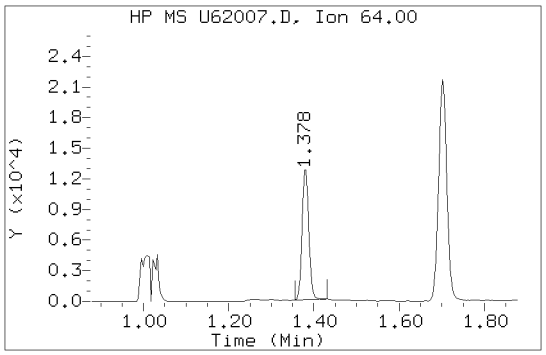
BEFORE

MASS
64
AREA
14170
HEIGHT
12743
29-Jun-2024
12:15
s
zaid



AFTER

MASS
64
AREA
14170
HEIGHT
12743
29-Jun-2024
12:18
s
zaid



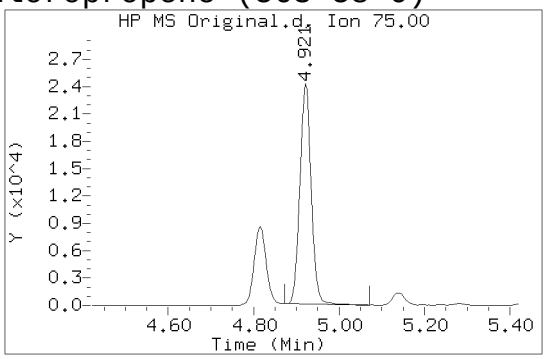
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

1,1-Dichloropropene (563-58-6)

Reason Code:

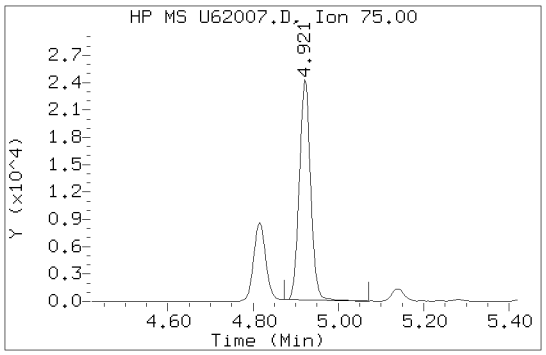
BEFORE

MASS
75
AREA
45303
HEIGHT
24169
29-Jun-2024
12:15
s
zaid



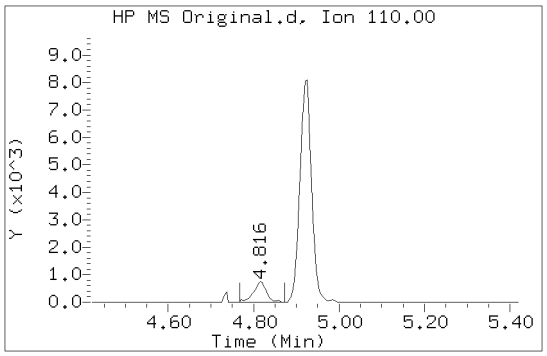
AFTER

MASS
75
AREA
45303
HEIGHT
24169
29-Jun-2024
12:18
s
zaid



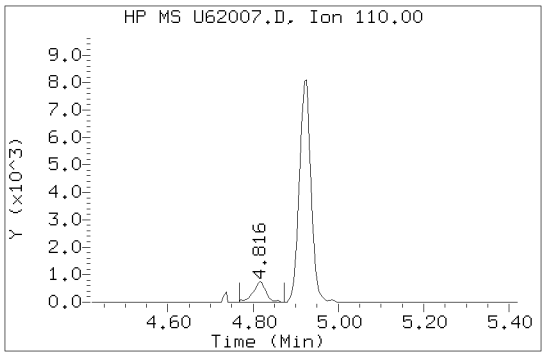
BEFORE

MASS
110
AREA
1566
HEIGHT
758
29-Jun-2024
12:15
s
zaid



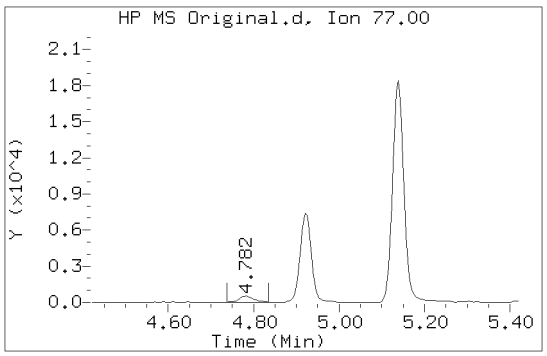
AFTER

MASS
110
AREA
1566
HEIGHT
758
29-Jun-2024
12:18
s
zaid



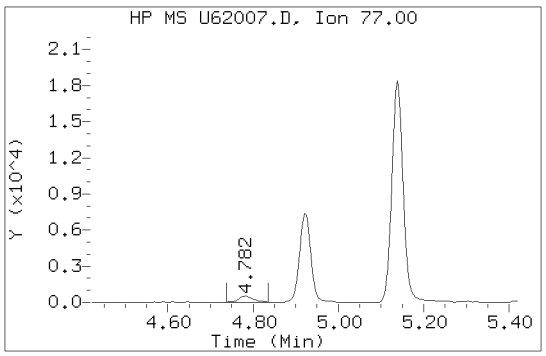
BEFORE

MASS
77
AREA
1248
HEIGHT
521
29-Jun-2024
12:15
s
zaid



AFTER

MASS
77
AREA
1248
HEIGHT
521
29-Jun-2024
12:18
s
zaid

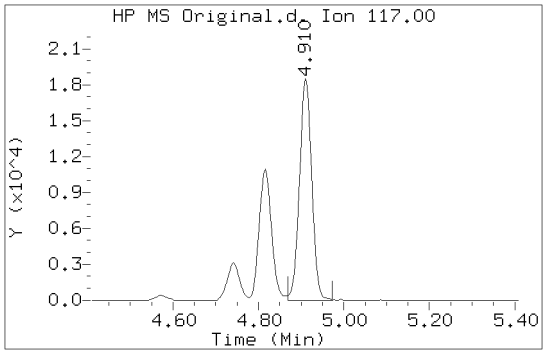


Carbon Tetrachloride (56-23-5)

Reason Code:

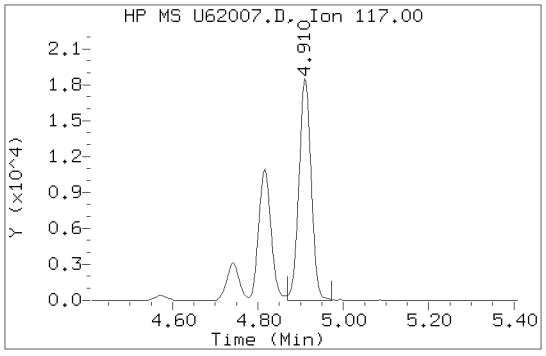
BEFORE

MASS
117
AREA
37608
HEIGHT
18524
29-Jun-2024
12:15
s
zaid



AFTER

MASS
117
AREA
37608
HEIGHT
18524
29-Jun-2024
12:18
s
zaid



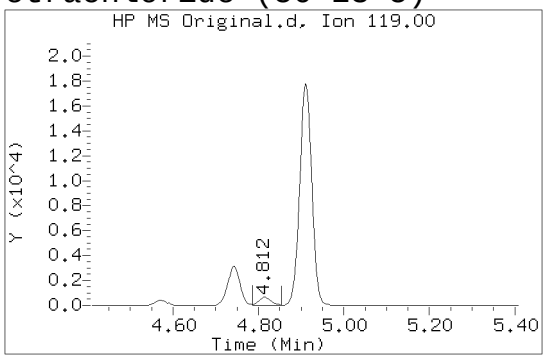
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Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Carbon Tetrachloride (56-23-5)

Reason Code:

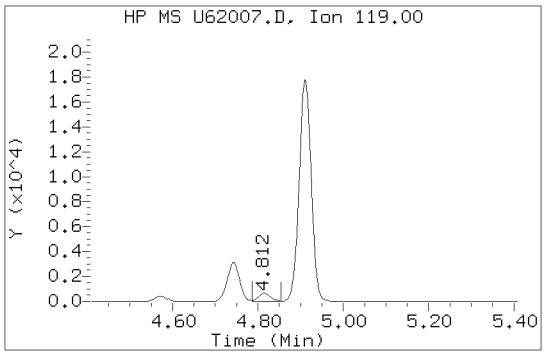
BEFORE

MASS
119
AREA
1277
HEIGHT
650
29-Jun-2024
12:15
s
zaid



AFTER

MASS
119
AREA
1277
HEIGHT
650
29-Jun-2024
12:18
s
zaid

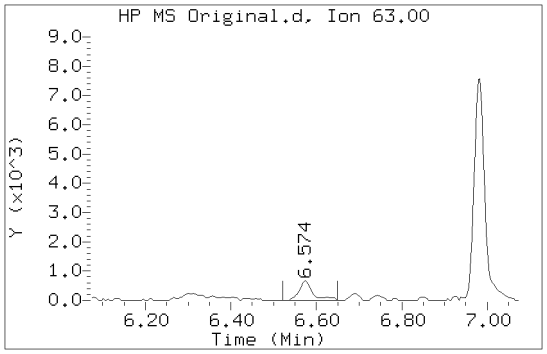


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

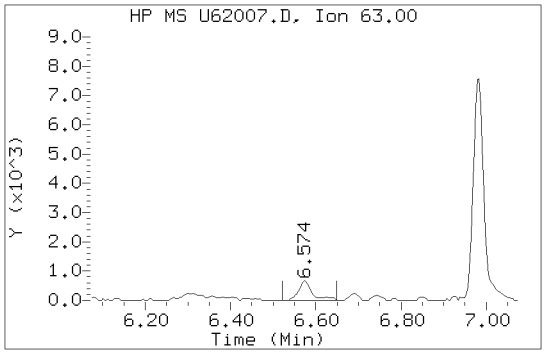
BEFORE

MASS
63
AREA
1519
HEIGHT
677
29-Jun-2024
12:15
s
zaid



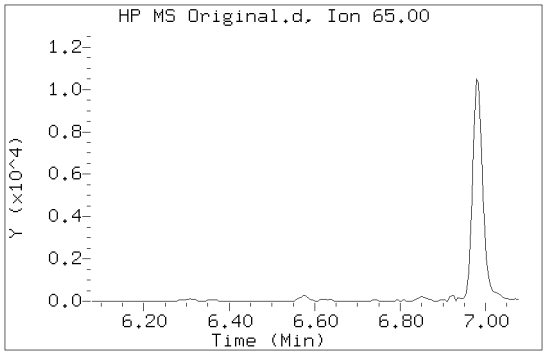
AFTER

MASS
63
AREA
1519
HEIGHT
677
29-Jun-2024
12:18
s
zaid



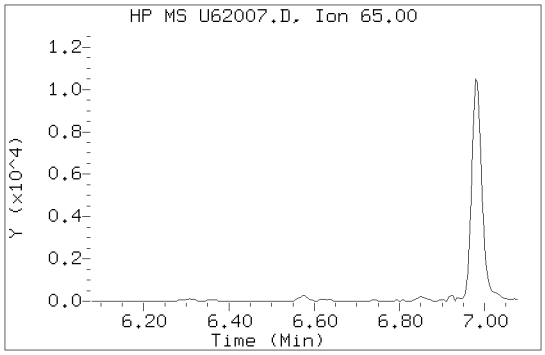
BEFORE

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



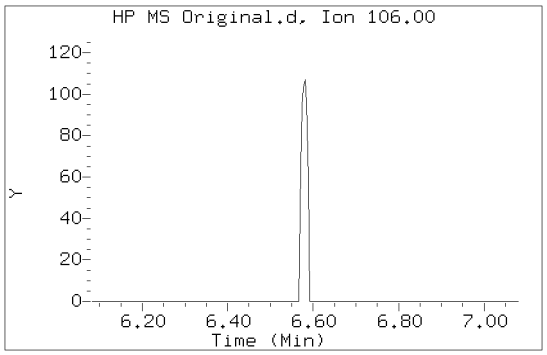
AFTER

MASS
65
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



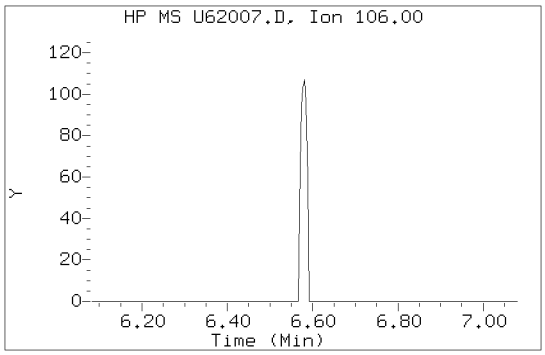
BEFORE

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

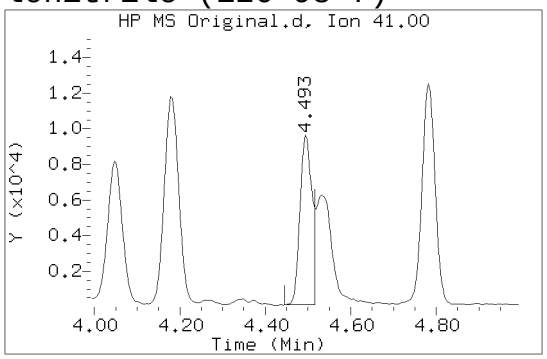


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

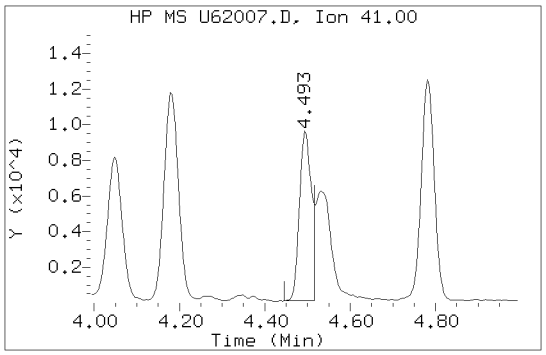
Methacrylonitrile (126-98-7)

Reason Code:

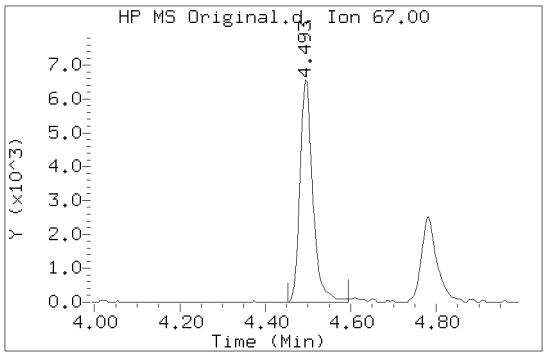
BEFORE
MASS
41
AREA
19125
HEIGHT
9561
29-Jun-2024
12:15
s
zaid



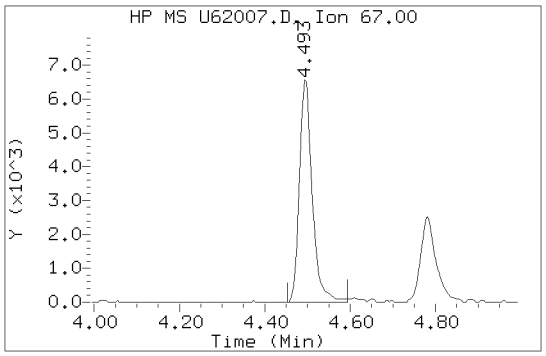
AFTER
MASS
41
AREA
19125
HEIGHT
9561
29-Jun-2024
12:18
s
zaid



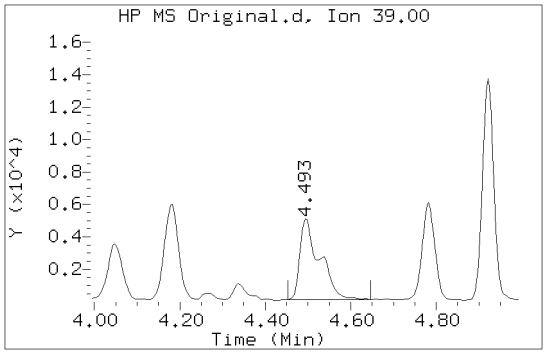
BEFORE
MASS
67
AREA
14029
HEIGHT
6564
29-Jun-2024
12:15
s
zaid



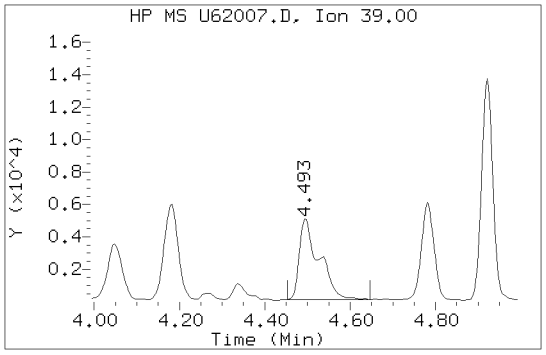
AFTER
MASS
67
AREA
14029
HEIGHT
6564
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
39
AREA
16364
HEIGHT
5002
29-Jun-2024
12:15
s
zaid



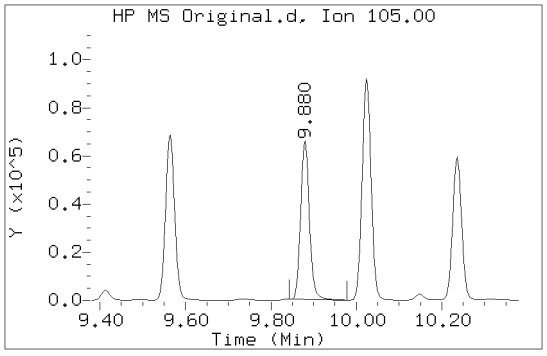
AFTER
MASS
39
AREA
16364
HEIGHT
5002
29-Jun-2024
12:18
s
zaid



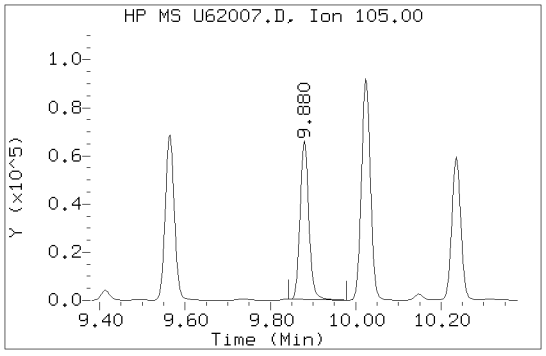
1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

BEFORE
MASS
105
AREA
96167
HEIGHT
66051
29-Jun-2024
12:15
s
zaid



AFTER
MASS
105
AREA
96167
HEIGHT
66051
29-Jun-2024
12:18
s
zaid



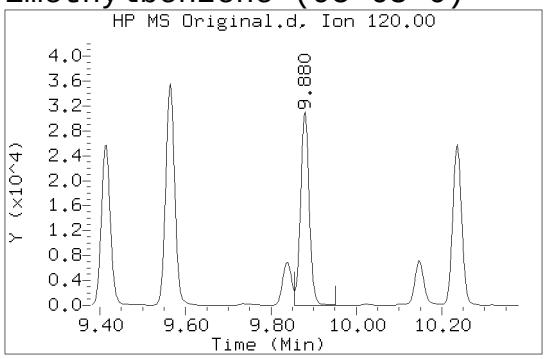
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

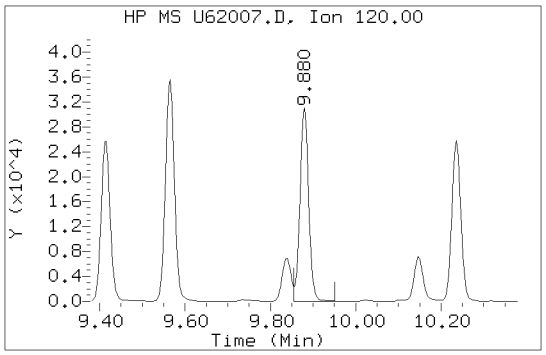
BEFORE

MASS
120
AREA
45066
HEIGHT
31104
29-Jun-2024
12:15
s
zaid



AFTER

MASS
120
AREA
45066
HEIGHT
31104
29-Jun-2024
12:18
s
zaid

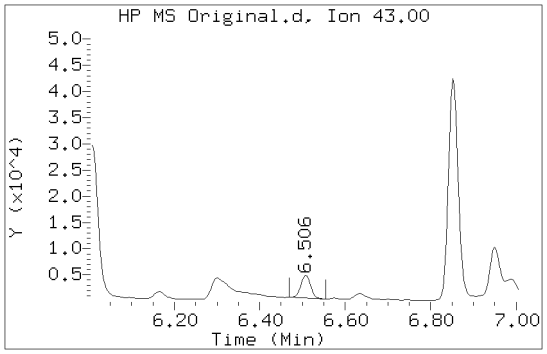


2-Nitropropane (79-46-9)

Reason Code:

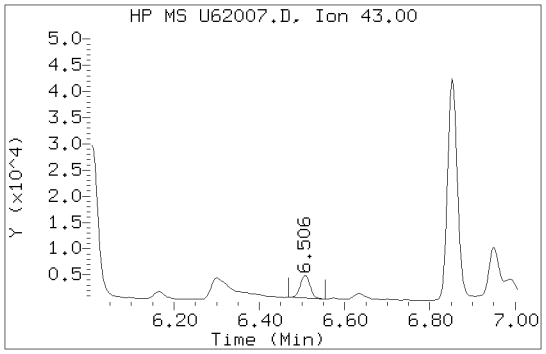
BEFORE

MASS
43
AREA
7117
HEIGHT
4328
29-Jun-2024
12:15
s
zaid



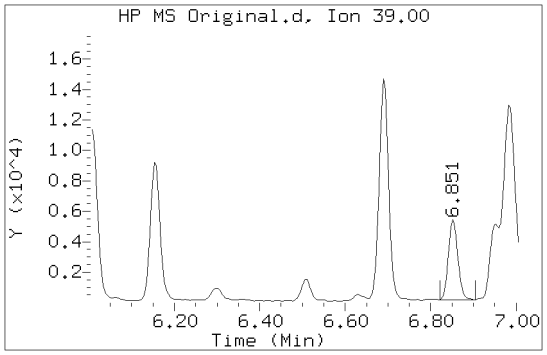
AFTER

MASS
43
AREA
7117
HEIGHT
4328
29-Jun-2024
12:18
s
zaid



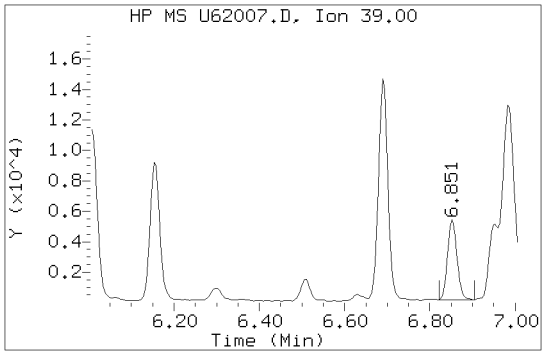
BEFORE

MASS
39
AREA
8125
HEIGHT
5287
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
8125
HEIGHT
5287
29-Jun-2024
12:18
s
zaid

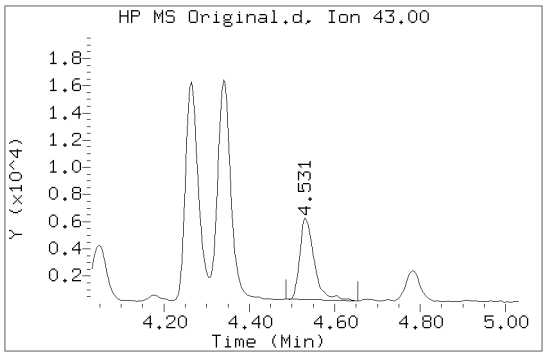


Ethyl Acetate (141-78-6)

Reason Code:

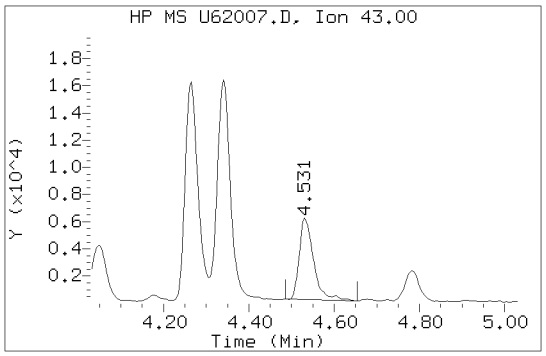
BEFORE

MASS
43
AREA
14253
HEIGHT
5999
29-Jun-2024
12:15
s
zaid



AFTER

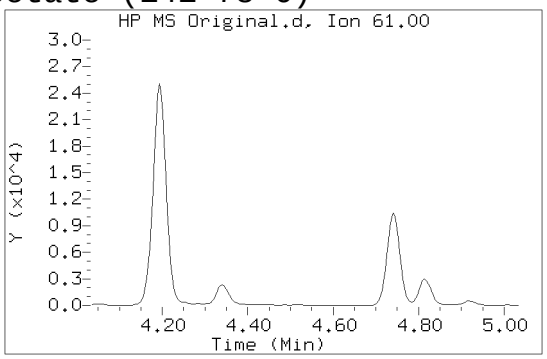
MASS
43
AREA
14253
HEIGHT
5999
29-Jun-2024
12:18
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62007.D
Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

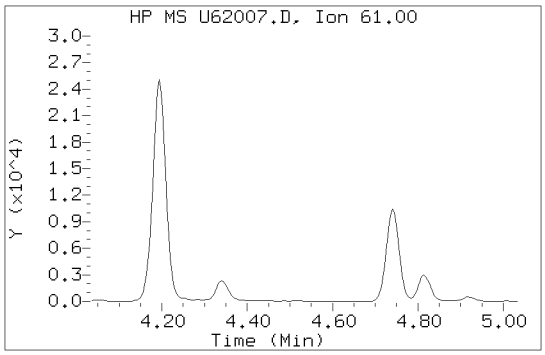
Ethyl Acetate (141-78-6)

BEFORE
MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

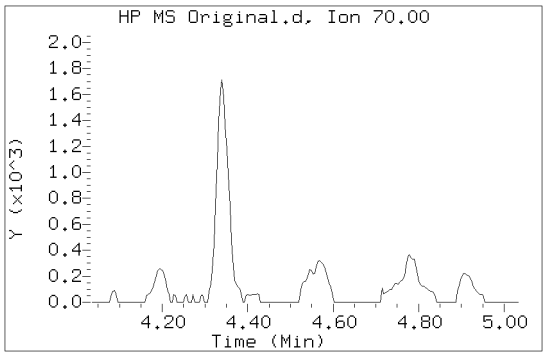


Reason Code:

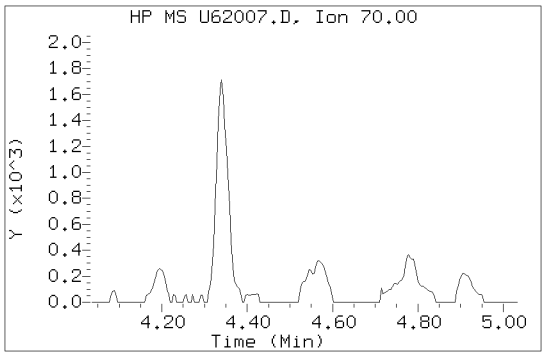
AFTER
MASS
61
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid

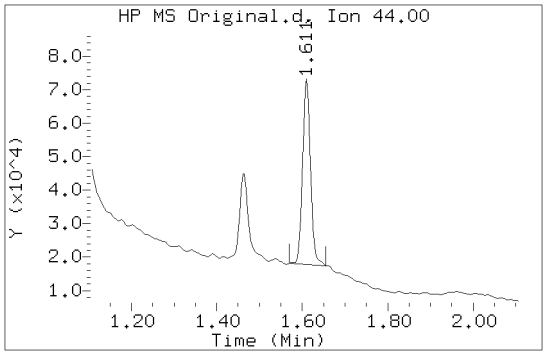


AFTER
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29-Jun-2024
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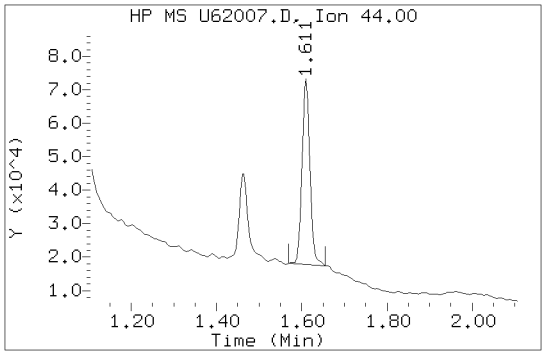
Ethylene oxide (75-21-8)

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zaid



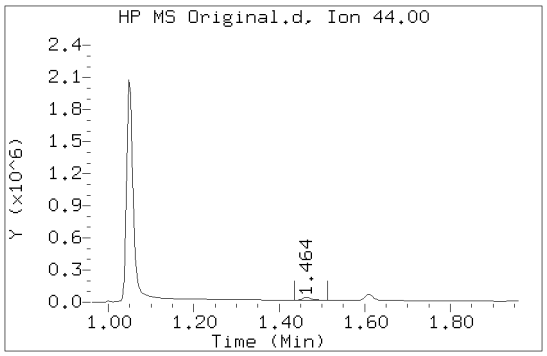
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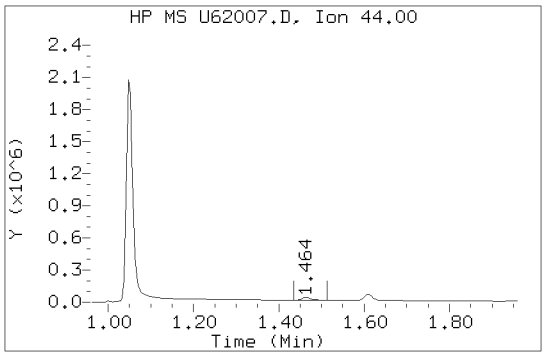
Acetaldehyde (75-07-0)

BEFORE
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34408
HEIGHT
24991
29-Jun-2024
12:15
s
zaid



Reason Code:

AFTER
MASS
44
AREA
34408
HEIGHT
24991
29-Jun-2024
12:18
s
zaid



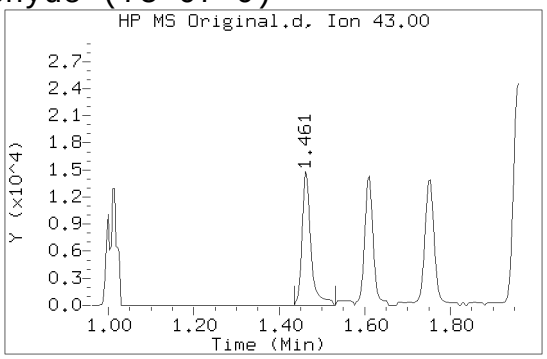
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Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

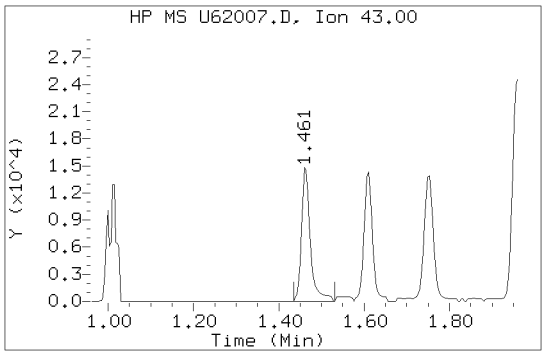
BEFORE

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14854
29-Jun-2024
12:15
s
zaid



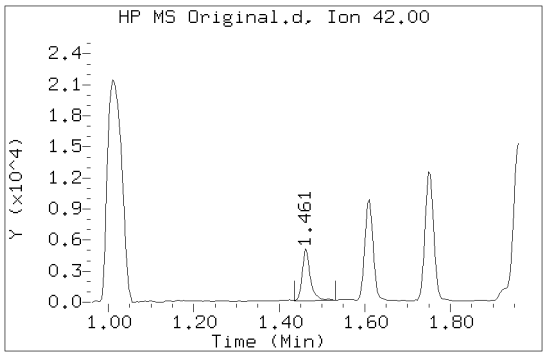
AFTER

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12:18
s
zaid



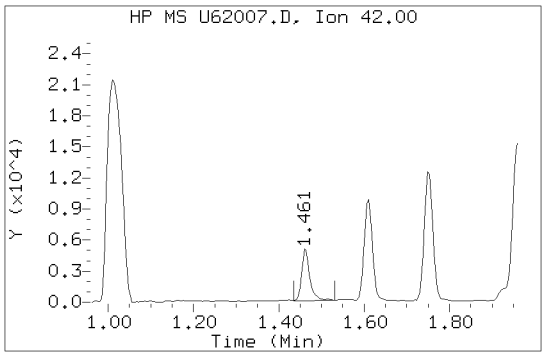
BEFORE

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4989
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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29-Jun-2024
12:18
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zaid

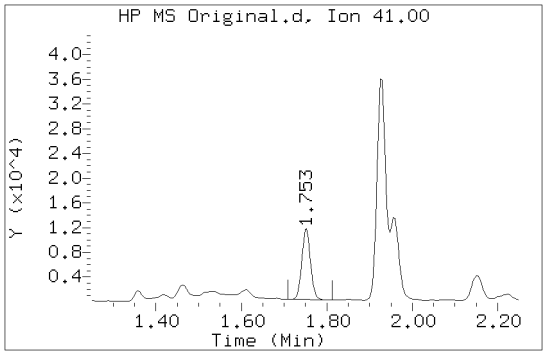


Isobutylene (115-11-7)

Reason Code:

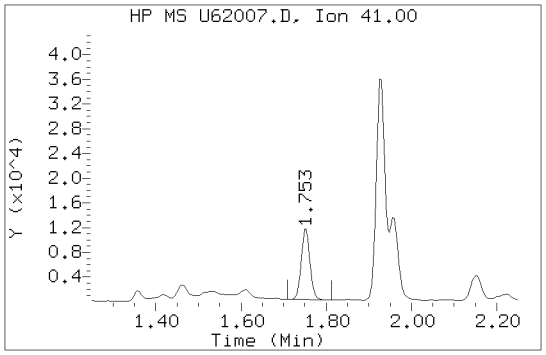
BEFORE

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11485
29-Jun-2024
12:15
s
zaid



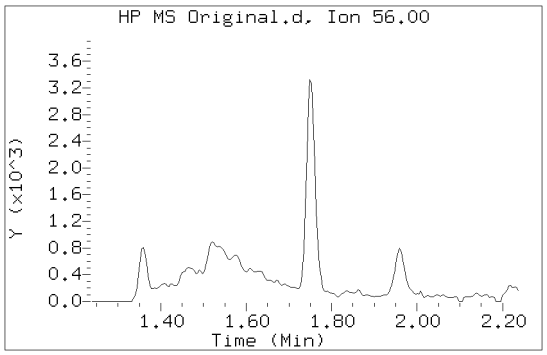
AFTER

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zaid



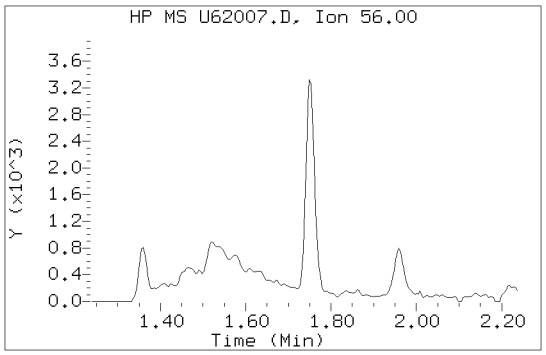
BEFORE

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56
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0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid

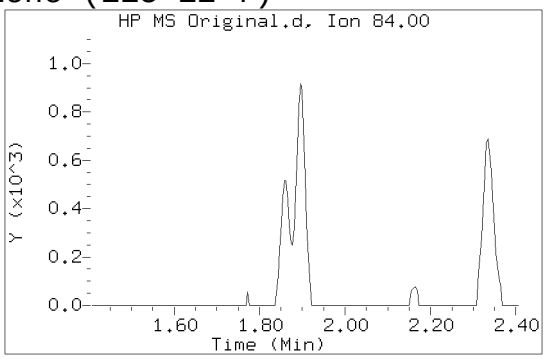


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Inj Date : 20-JUN-2024 13:10
InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

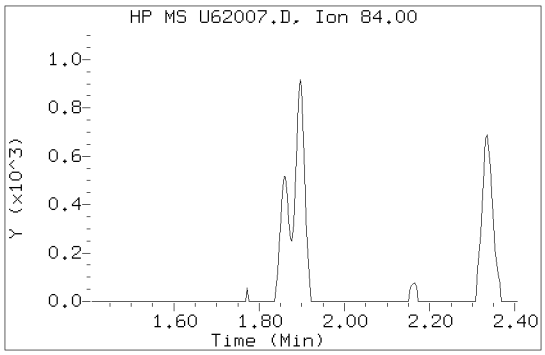
BEFORE

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
s
zaid



AFTER

MASS
84
AREA
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HEIGHT
0
29-Jun-2024
12:18
s
zaid

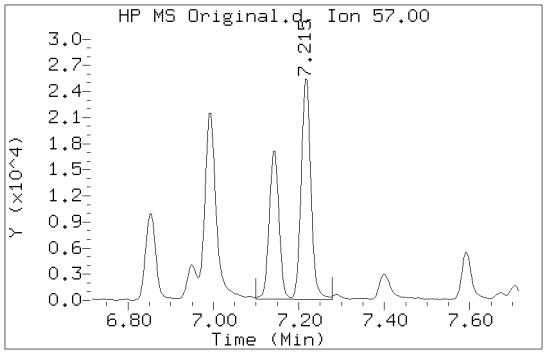


Reason Code:

sec-Butyl Ether (6863-58-7)

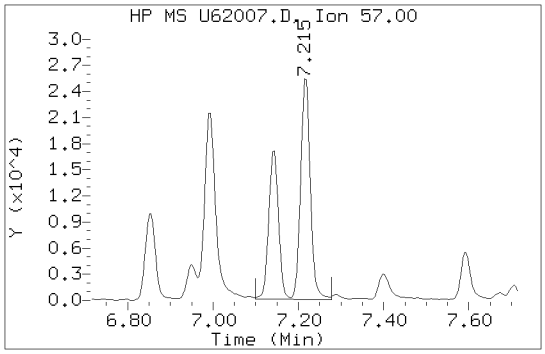
BEFORE

MASS
57
AREA
68567
HEIGHT
25357
29-Jun-2024
12:15
s
zaid



AFTER

MASS
57
AREA
68567
HEIGHT
25357
29-Jun-2024
12:18
s
zaid

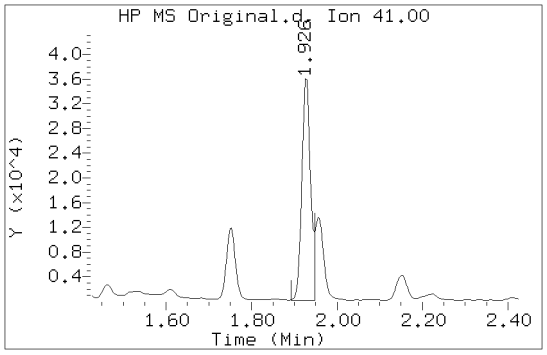


Reason Code:

2-Chloropropene (557-98-2)

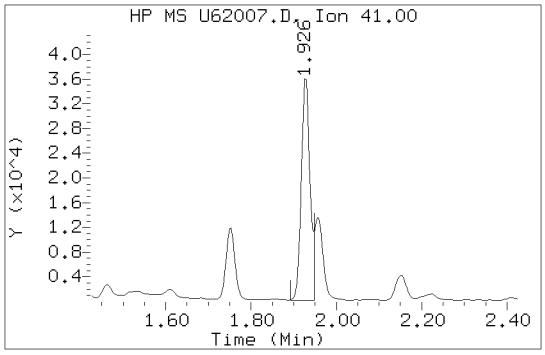
BEFORE

MASS
41
AREA
53299
HEIGHT
35859
29-Jun-2024
12:15
s
zaid



AFTER

MASS
41
AREA
53299
HEIGHT
35859
29-Jun-2024
12:18
s
zaid



Reason Code:

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62008.D
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Inj Date : 20-JUN-2024 13:32
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 13:10 Cal File: U62007.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.812	(1.000)	251533	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	95581	50.0000	53.20(M)
3 Chloromethane	50	1.292	1.292	(0.268)	198562	50.0000	50.71
4 Propionitrile	54	4.332	4.332	(0.900)	121156	500.000	521.11
5 Vinyl Chloride	62	1.374	1.374	(0.286)	112466	50.0000	50.43(M)
6 Bromomethane	94	1.610	1.610	(0.335)	44204	50.0000	53.17
7 Chloroethane	64	1.693	1.693	(0.352)	72630	50.0000	51.70
8 Trichlorofluoromethane	101	1.888	1.888	(0.392)	126506	50.0000	52.51
9 Acrolein	56	2.259	2.259	(0.469)	8374	100.000	108.06
10 Acetone	43	2.401	2.401	(0.499)	68845	100.000	107.56
11 1,1-Dichloroethene	96	2.326	2.326	(0.484)	72215	50.0000	49.21
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	241560	1000.00	972.80
13 Acetonitrile	39	2.664	2.664	(0.554)	103396	500.000	538.86
14 Allyl Chloride	41	2.664	2.664	(0.554)	235927	50.0000	52.10
15 Iodomethane	142	2.461	2.461	(0.512)	56866	100.000	98.83
16 Acrylonitrile	53	3.057	3.057	(0.635)	63044	100.000	102.75
17 Methylene Chloride	84	2.787	2.787	(0.579)	91024	50.0000	51.80
18 Methyl tert-butyl ether	73	3.072	3.072	(0.639)	217335	50.0000	50.23
19 Carbon Disulfide	76	2.514	2.514	(0.522)	417910	100.000	103.34
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	79342	50.0000	51.68

21 Vinyl Acetate	43	4.335	4.335 (0.901)	90820	100.000	103.53
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	151105	50.0000	51.94

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.601	3.601	(0.748)	127812	50.0000	51.23
	24 2-Butanone	43	4.257	4.257	(0.885)	88567	100.000	101.57
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	53283	50.0000	48.43(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	116047	50.0000	50.08
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	94216	50.0000	51.83
	28 Chloroform	83	4.568	4.568	(0.949)	156020	50.0000	52.50
	29 Bromochloromethane	128	4.463	4.463	(0.928)	46511	50.0000	46.18
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	83337	50.0000	49.87
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	123401	50.0000	52.84
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	113090	50.0000	50.81(M)
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	124711	50.0000	52.77
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	97926	50.0000	52.49(M)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	104164	50.0000	48.87
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	364835	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	353922	50.0000	47.13
	38 Trichloroethene	130	5.786	5.786	(1.043)	88882	50.0000	48.77
	39 Bromodichloromethane	83	6.274	6.274	(1.130)	110174	50.0000	51.91
	40 Methyl Methacrylate	41	5.816	5.816	(1.209)	33074	50.0000	50.24
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	4138	100.000	84.69
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	94773	50.0000	47.65
	43 2-Nitropropane	43	6.506	6.506	(1.352)	20359	50.0000	51.19(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	55849	50.0000	48.11
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	180902	100.000	99.97
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	131407	50.0000	52.99
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	328344	50.0000	
$	48 Toluene-d8	98	6.918	6.918	(0.845)	316762	50.0000	49.70
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	111847	50.0000	48.27
	50 Toluene	91	6.978	6.978	(0.853)	382286	50.0000	51.13
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	107819	50.0000	48.06
	52 2-Hexanone	43	7.214	7.214	(0.881)	120971	100.000	99.51
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	69697	50.0000	48.21
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	150157	50.0000	49.42
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	84122	50.0000	55.77
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	73011	50.0000	52.18
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	82175	50.0000	51.49
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	67624	50.0000	48.11
	59 Chlorobenzene	112	8.208	8.208	(1.003)	241338	50.0000	53.15
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	82559	50.0000	51.40
	61 Ethylbenzene	106	8.305	8.305	(1.015)	121960	50.0000	52.71
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	308644	100.000	111.73
	63 o-Xylene	106	8.748	8.748	(1.069)	153135	50.0000	56.25
	64 Styrene	104	8.763	8.763	(1.071)	252469	50.0000	55.47
	66 Bromoform	173	8.916	8.916	(1.089)	51889	50.0000	50.56
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	377003	50.0000	55.82
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	117242	50.0000	52.52
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	118236	50.0000	47.21
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	181042	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	113449	50.0000	49.75
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	23395	50.0000	50.98
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	444263	50.0000	56.74
	74 Bromobenzene	156	9.317	9.317	(0.916)	105687	50.0000	49.68
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	297172	50.0000	49.81

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	271684	50.0000	51.28
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	314925	50.0000	52.37

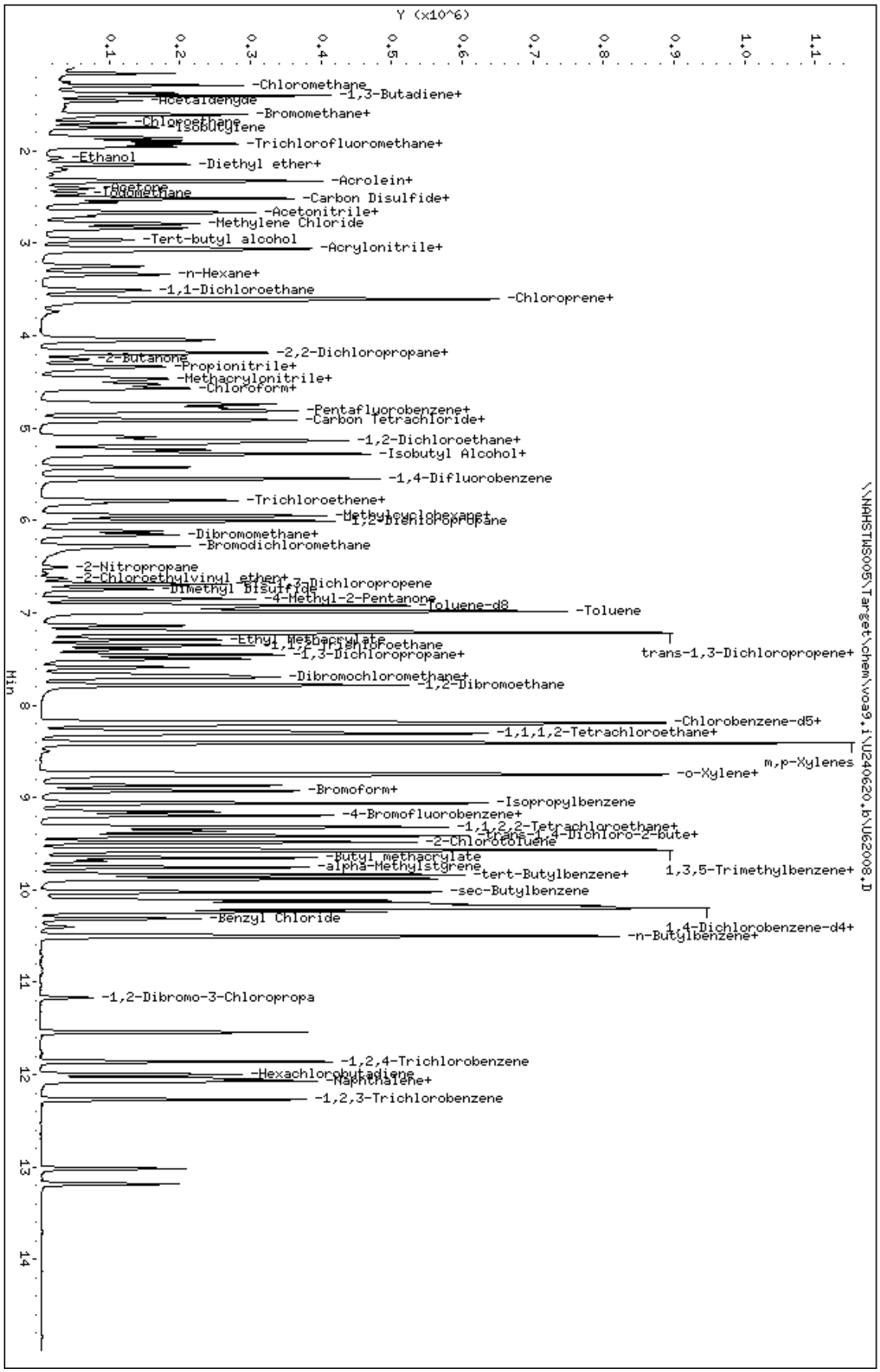
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	268164	50.0000	56.20
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	283362	50.0000	49.18(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	355249	50.0000	55.90
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	303882	50.0000	49.64
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	191762	50.0000	48.99
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	197609	50.0000	52.76
86	Benzyl Chloride	91	10.311	10.311	(1.260)	146462	50.0000	48.63
87	n-Butylbenzene	91	10.495	10.495	(1.032)	267172	50.0000	49.12
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	187552	50.0000	48.12
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	14223	50.0000	50.85
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	120231	50.0000	50.99
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	52536	50.0000	50.25
92	Naphthalene	128	12.069	12.069	(1.186)	267603	50.0000	48.70
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	111038	50.0000	51.43
146	Methyl acetate	43	2.705	2.705	(0.562)	69683	50.0000	53.74
138	Freon TF	101	2.330	2.330	(0.484)	69509	50.0000	51.49
141	Cyclohexane	56	4.778	4.778	(0.993)	121140	50.0000	49.94
142	Tetrahydrofuran	42	4.534	4.534	(0.942)	32150	100.000	107.92
147	Methylcyclohexane	55	5.944	5.944	(1.071)	204304	50.0000	52.73
135	1,4-Dioxane	88	6.165	6.165	(1.281)	20352	1000.00	1072.95
132	n-Butanol	56	5.816	5.816	(1.209)	46172	1000.00	1006.85
136	n-Hexane	57	3.335	3.335	(0.693)	86543	50.0000	53.65
139	Diethyl ether	59	2.139	2.139	(0.445)	64595	50.0000	53.02
148	Tert-butyl alcohol	59	2.960	2.960	(0.615)	146048	1000.00	1014.63
149	Isopropyl alcohol	45	2.555	2.555	(0.531)	113863	1000.00	1028.60
156	Diisopropyl ether	45	3.612	3.612	(0.751)	286139	50.0000	47.16
162	Butyl acrylate	55	8.733	8.733	(1.067)	149657	50.0000	49.51
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	387581	50.0000	49.44
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	254707	50.0000	49.19
167	Ethanol	45	2.075	2.075	(0.431)	22141	1000.00	1040.84
172	tert-Butyl formate	59	5.235	5.235	(1.088)	124383	100.000	99.82
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	488444	1000.00	970.78
140	1,3-Butadiene	54	1.396	1.396	(0.290)	110594	50.0000	51.20
182	Epichlorohydrin	57	6.630	6.630	(1.195)	12486	200.000	196.27
M 94	1,2-Dichloroethylene (total)	96				173558	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	103865	50.0000	49.71
130	Ethyl Acetate	43	4.527	4.527	(0.941)	32325	50.0000	54.72(M)
131	Methyl Acrylate	55	4.362	4.362	(0.907)	98161	50.0000	47.08
189	n-Butyl acetate	43	7.702	7.702	(0.941)	134988	50.0000	51.56
134	Cyclohexanone	55	9.153	9.153	(0.900)	95172	1000.00	1019.59
185	Isoprene	39	2.150	2.150	(0.447)	18948	50.0000	51.88
188	Isopropyl acetate	43	5.280	5.280	(0.951)	241206	50.0000	49.44
150	Allyl alcohol	57	3.335	3.335	(0.693)	86543	1000.00	1073.18
194	Acetaldehyde	44	1.456	1.456	(0.303)	84508	200.000	200.98(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	62950	50.0000	51.26
202	Isobutylene	41	1.745	1.745	(0.363)	41377	50.0000	49.35(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	204304	50.0000	51.63
163	Butyl methacrylate	41	9.647	9.647	(0.948)	101877	50.0000	55.58
159	Propylene oxide	43	2.195	2.195	(0.456)	10837	100.000	94.30
178	Ethylene oxide	44	1.603	1.603	(0.333)	193428	100.000	103.58(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	98009	50.0000	49.81
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	94568	50.0000	50.68(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	172514	50.0000	47.02(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	145610	50.0000	50.12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
206 2-Chloropropene	41	1.921	1.921	(0.399)	131745	50.0000	51.02(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.

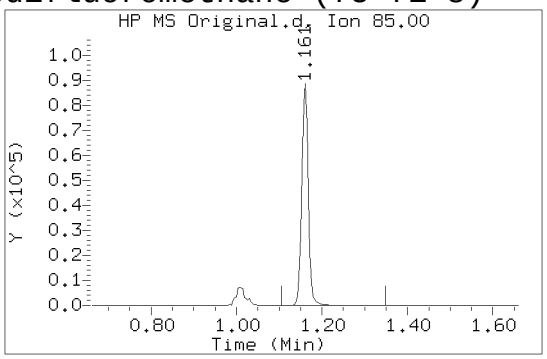

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1.1
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
-Chloromethane
-1,3-Butadiene+
-Acetaldehyde
-Bromomethane+
-Chloroethane
-Isobutylene
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether+
-Acrolein+
-Acetone
-Iodomethane
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-2,2-Dichloropropane+
-2-Butanone
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Pentafluorobenzene+
-Carbon Tetrachloride+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane
-2-Chloroethylvinyl ether+
-Dimethyl Disulfide
-4-Methyl-2-Pentanone
Toluene-d8
-Toluene
-Ethyl Methacrylate
1,1,2-Trichloroethane
-1,3-Dichloropropane+
trans-1,3-Dichloropropene+
-Dibromochloromethane+
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-Butyl methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene+
1,3,5-Trimethylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
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Column phase: DB624
Instrument: VOA9,i
Operator: TS
Column diameter: 0.18
Page 1

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Inj Date : 20-JUN-2024 13:32
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LabSampID : VSTD050

Dichlorodifluoromethane (75-71-8)

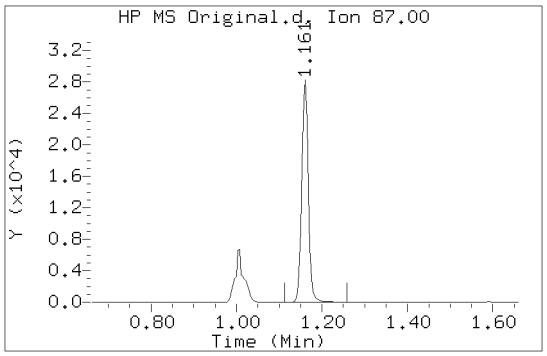
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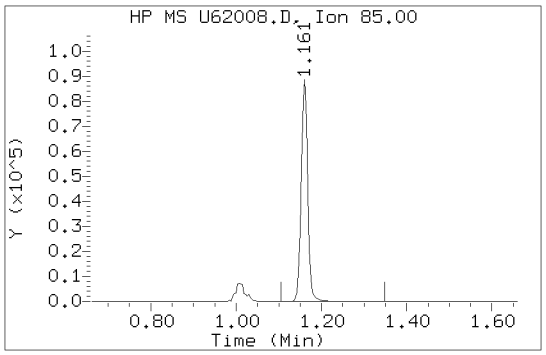
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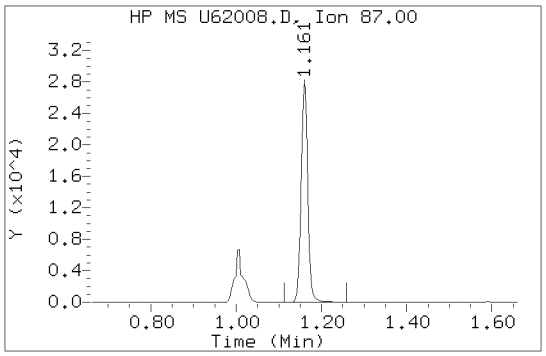
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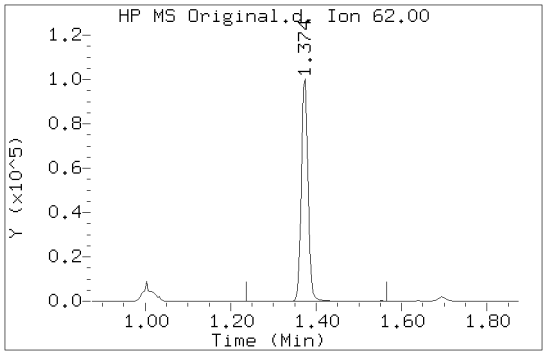
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Vinyl Chloride (75-01-4)

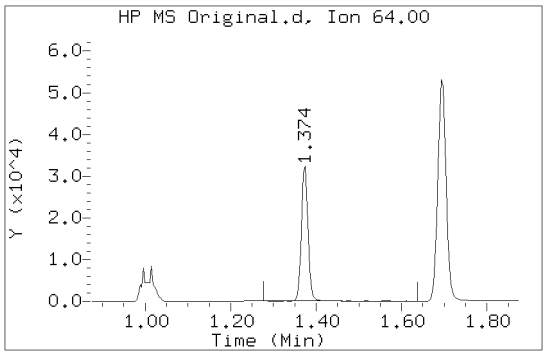
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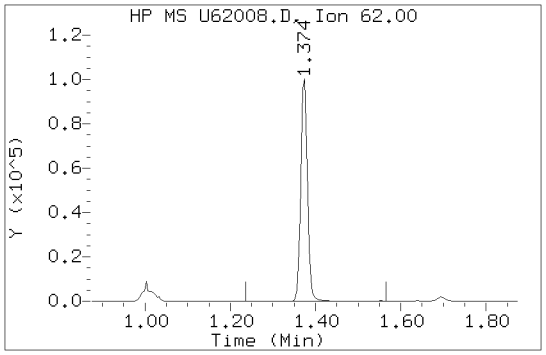
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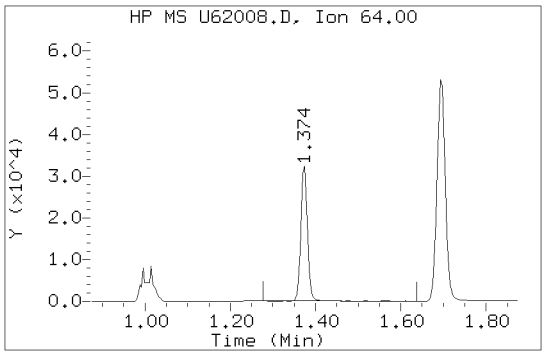
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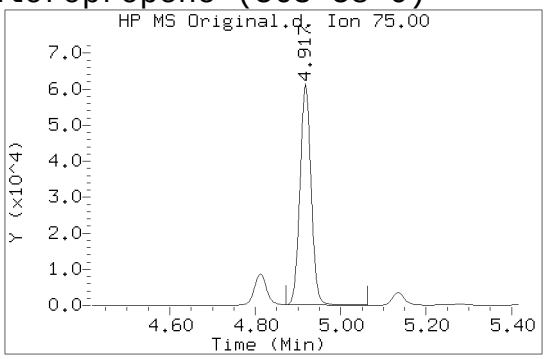
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InstruID : VOA9.i
LabSampID : VSTD050

1,1-Dichloropropene (563-58-6)

Reason Code:

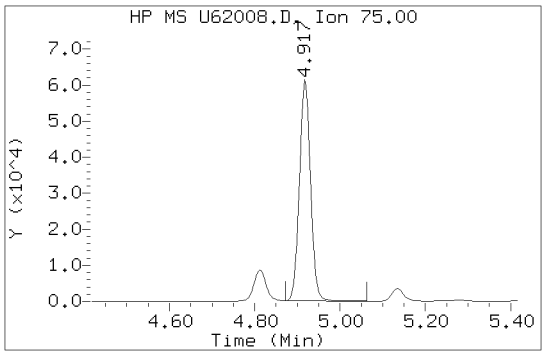
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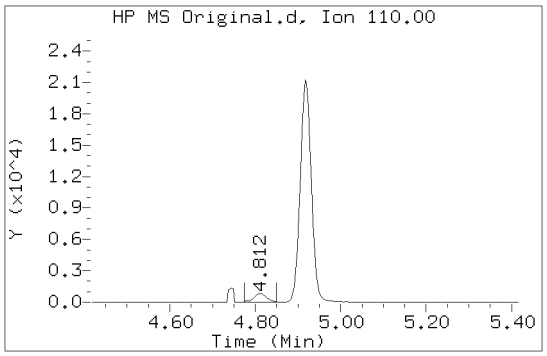
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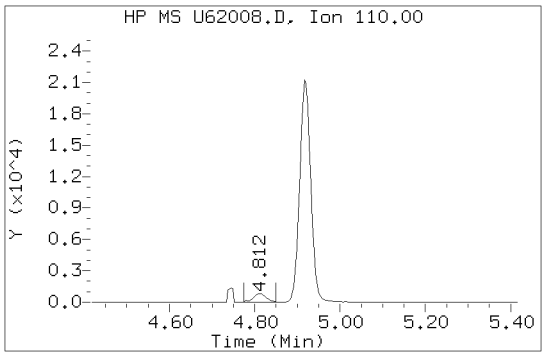
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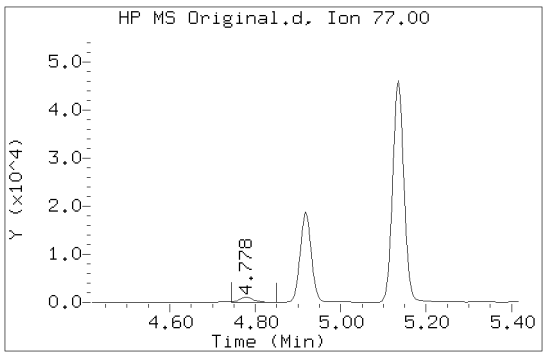
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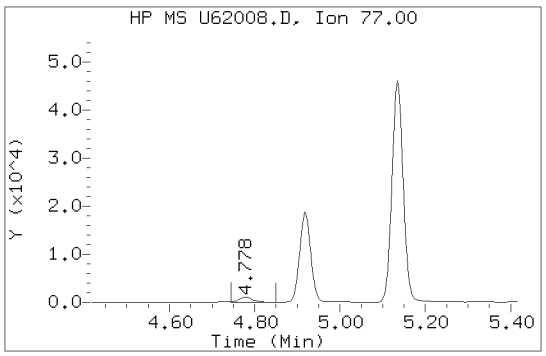
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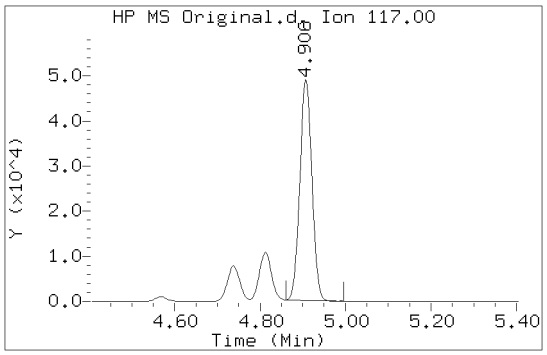


Carbon Tetrachloride (56-23-5)

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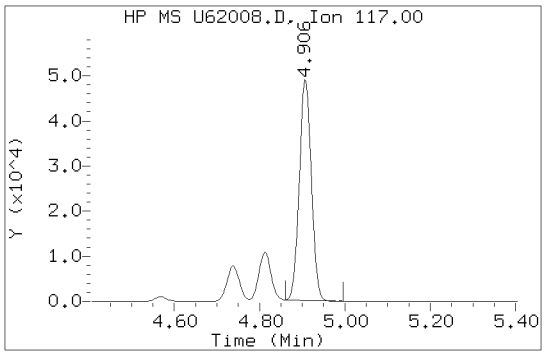
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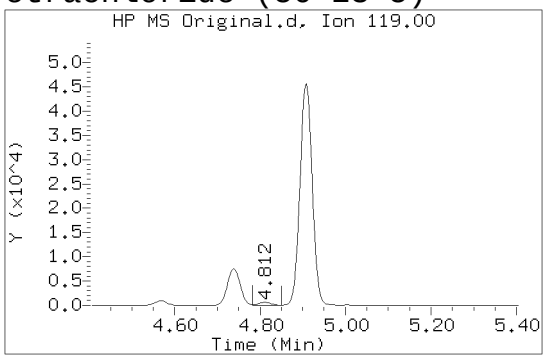
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InstruID : VOA9.i
LabSampID : VSTD050

Carbon Tetrachloride (56-23-5)

Reason Code:

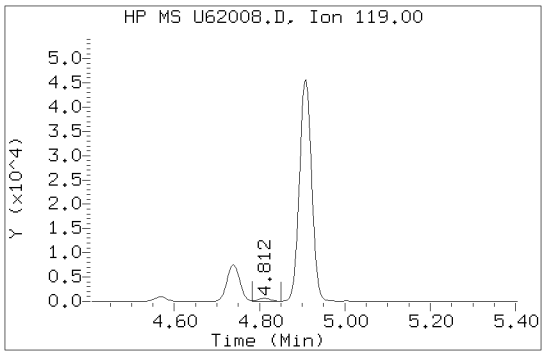
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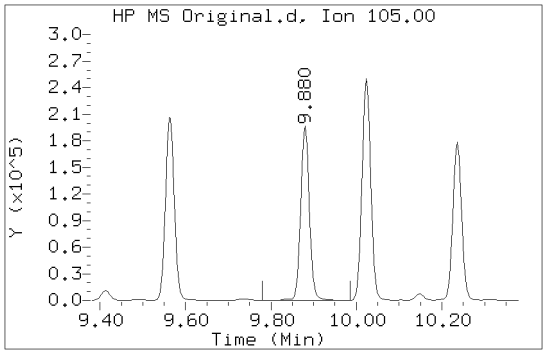


1,2,4-Trimethylbenzene (95-63-6)

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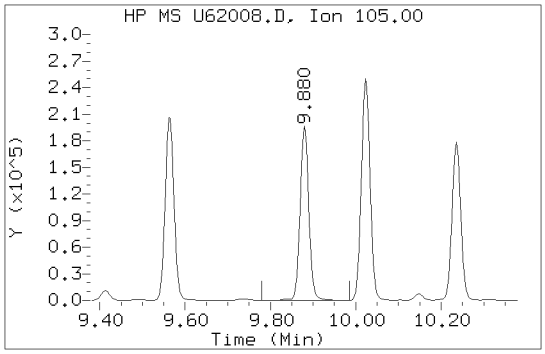
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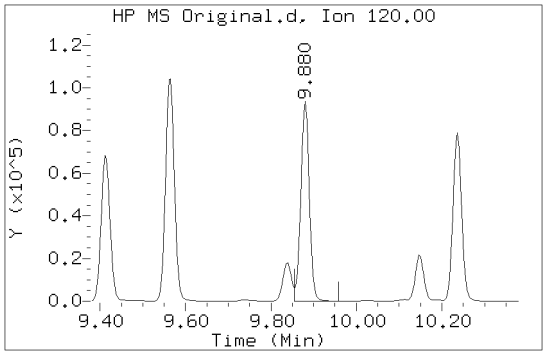
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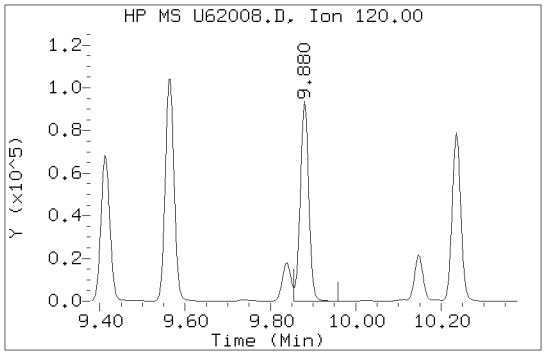
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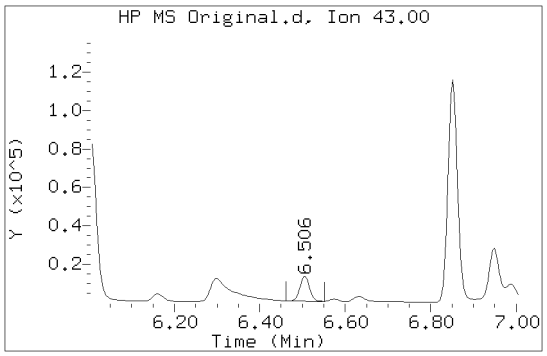


2-Nitropropane (79-46-9)

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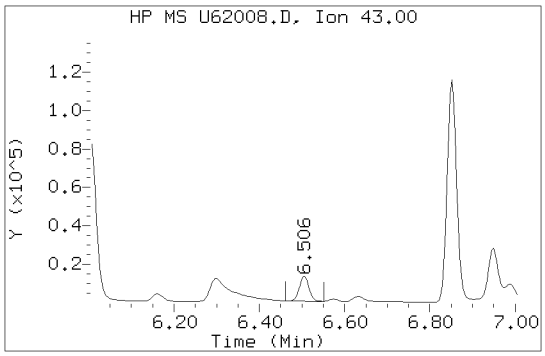
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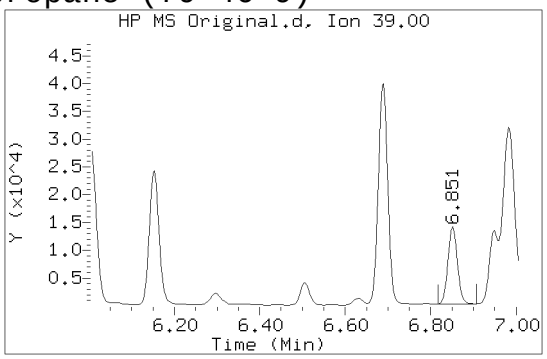
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LabSampID : VSTD050

2-Nitropropane (79-46-9)

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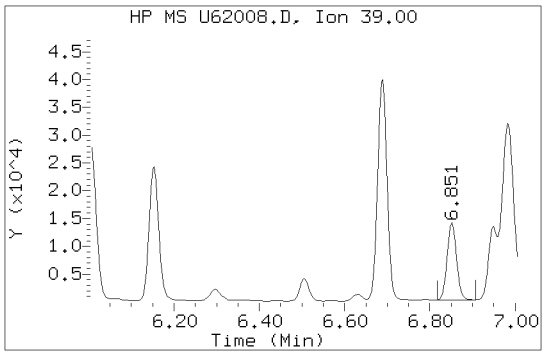
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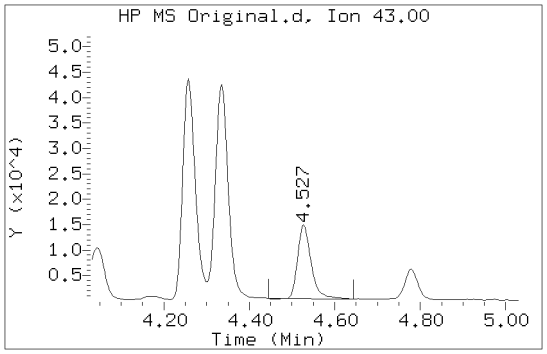


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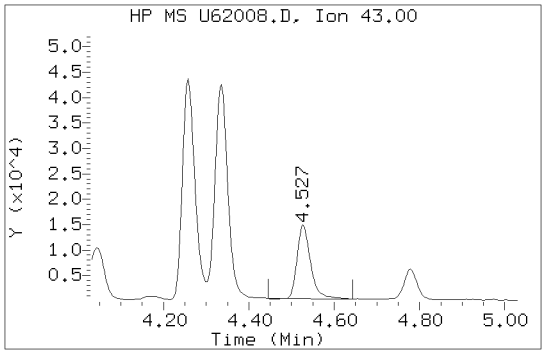
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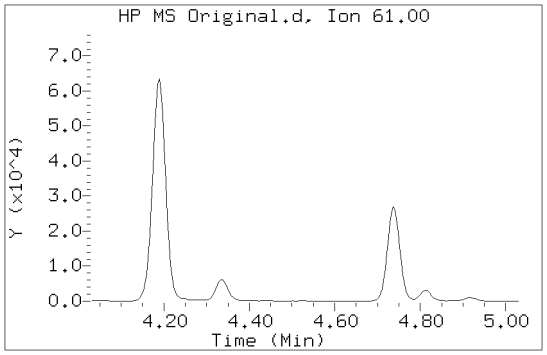
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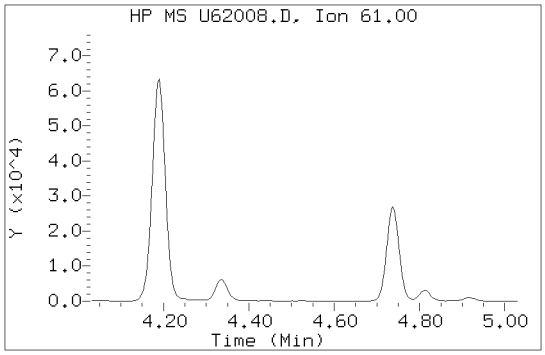
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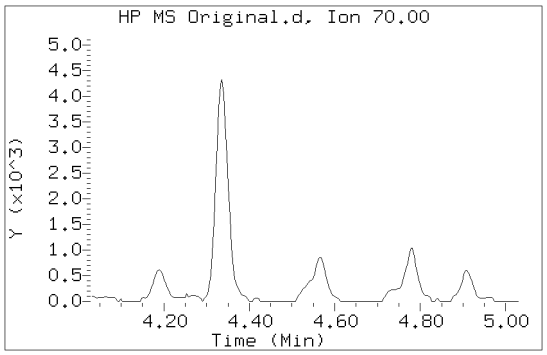
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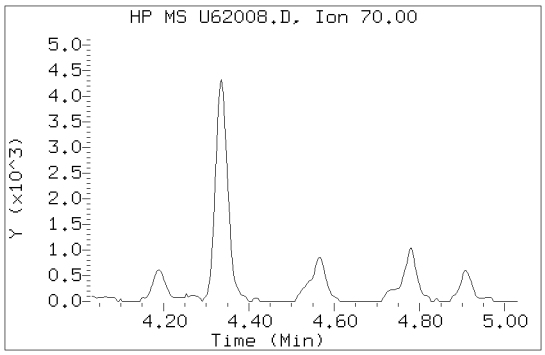
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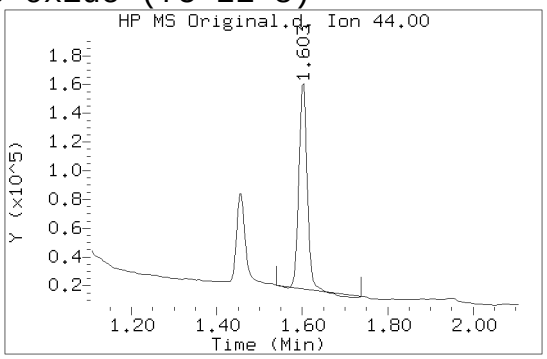
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LabSampID : VSTD050

Ethylene oxide (75-21-8)

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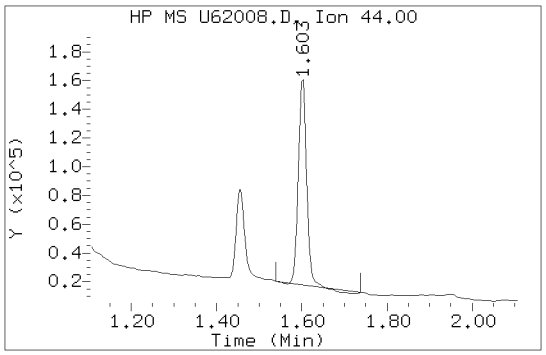
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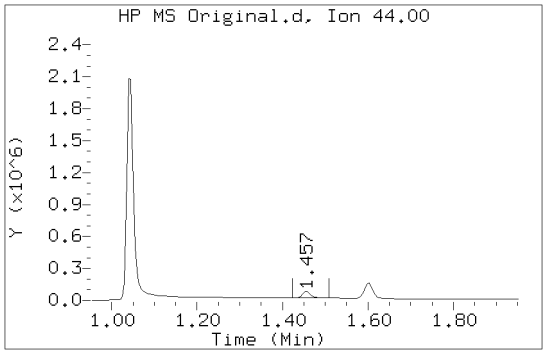


Acetaldehyde (75-07-0)

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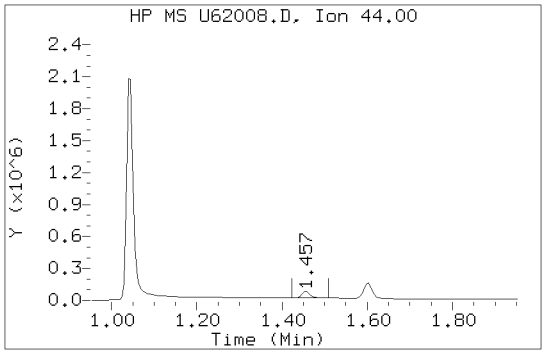
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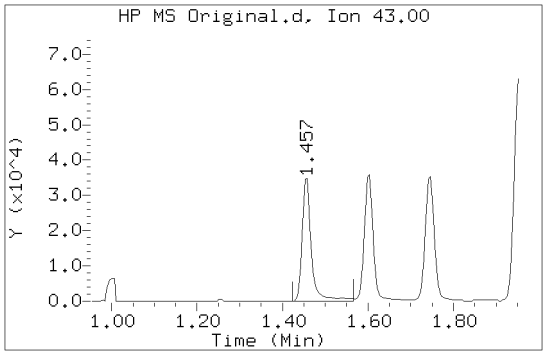
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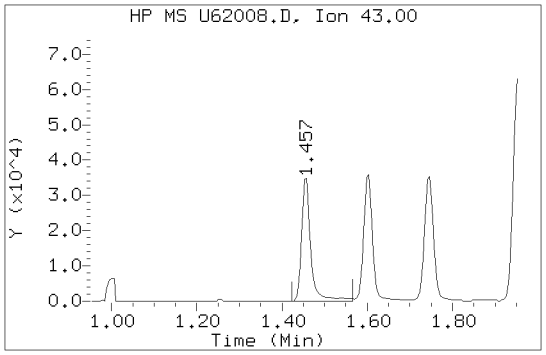
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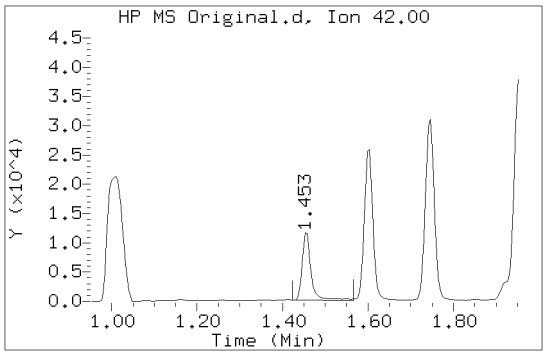
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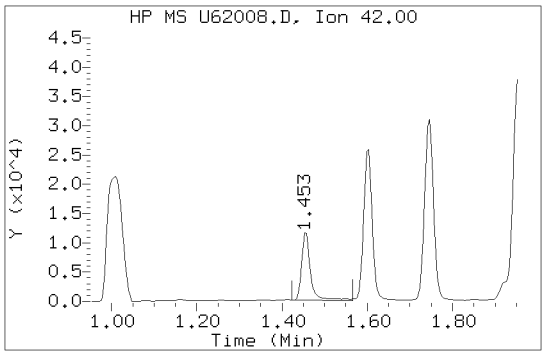
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AFTER

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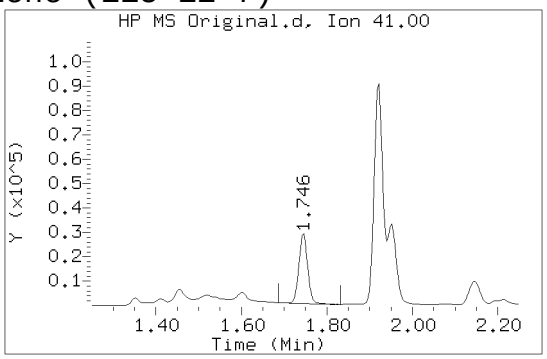
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Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

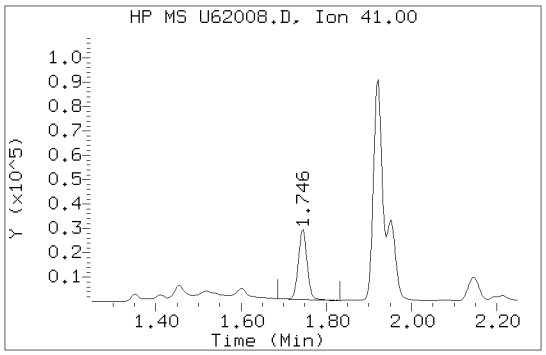
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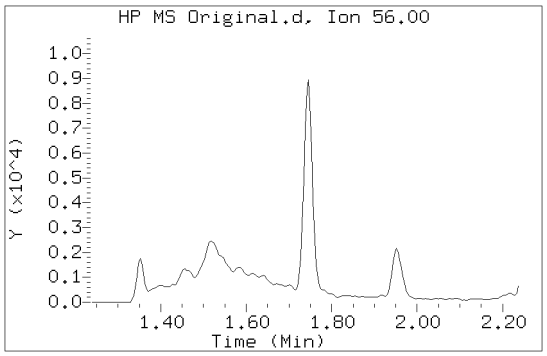
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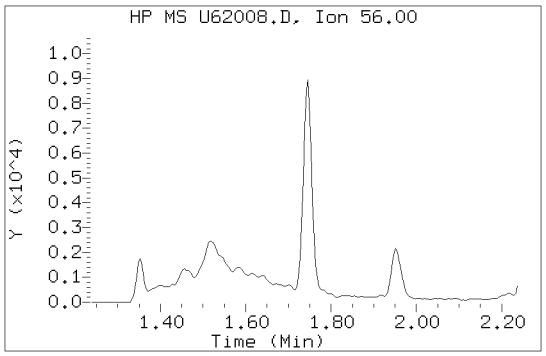
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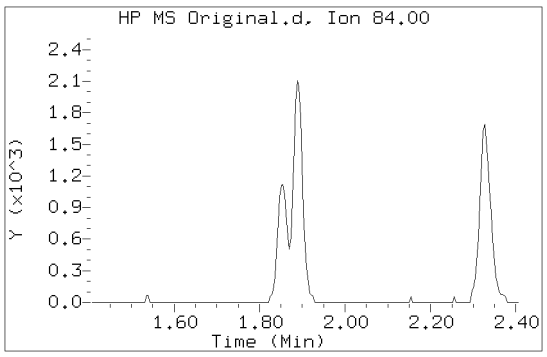
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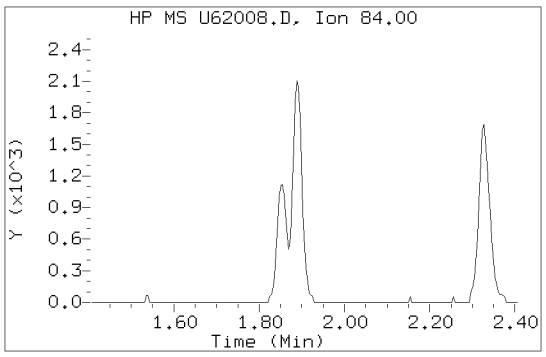
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AFTER

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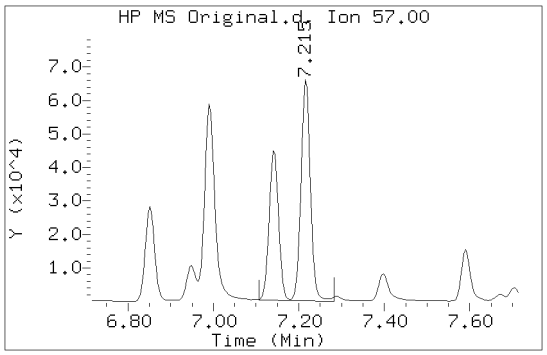


sec-Butyl Ether (6863-58-7)

Reason Code:

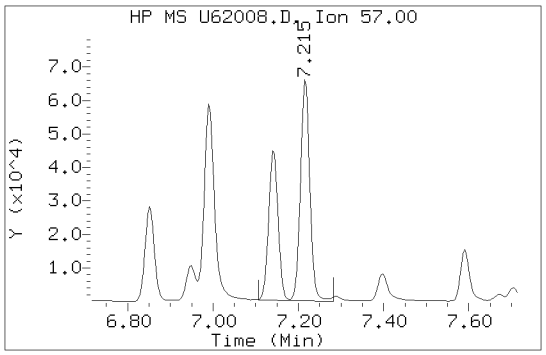
BEFORE

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AFTER

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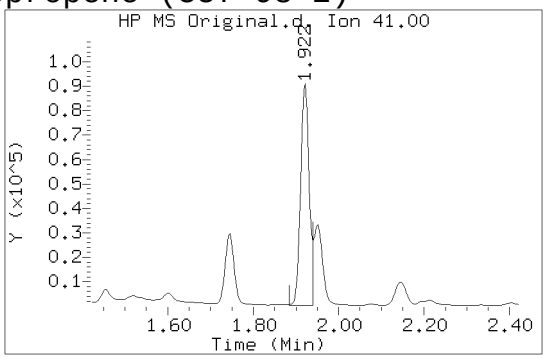
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Inj Date : 20-JUN-2024 13:32
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloropropene (557-98-2)

Reason Code:

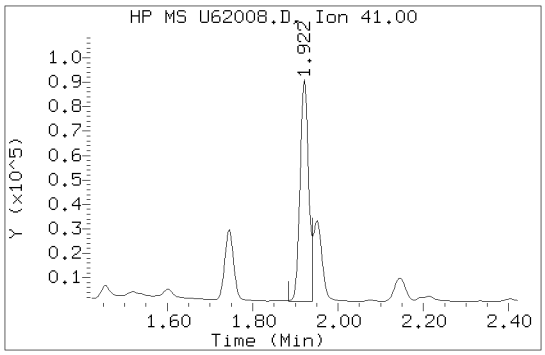
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AFTER

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HEIGHT
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29-Jun-2024
12:15
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zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D Page 1
Report Date: 29-Jun-2024 12:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62009.D
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Inj Date : 20-JUN-2024 13:53
Operator : TS Inst ID: VOA9.i
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Cal Date : 20-JUN-2024 13:10 Cal File: U62007.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	247855	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	176654	100.000	99.79(M)
3	Chloromethane	50	1.303	1.303	(0.270)	359325	100.000	98.24
4	Propionitrile	54	4.339	4.339	(0.900)	233070	1000.00	1006.44
5	Vinyl Chloride	62	1.385	1.385	(0.287)	214186	100.000	97.35(M)
6	Bromomethane	94	1.621	1.621	(0.337)	79022	100.000	96.02
7	Chloroethane	64	1.704	1.704	(0.354)	133622	100.000	97.72
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	240632	100.000	101.36
9	Acrolein	56	2.270	2.270	(0.471)	15190	200.000	196.94
10	Acetone	43	2.412	2.412	(0.501)	133780	200.000	219.71
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	136391	100.000	94.32
12	Isobutyl Alcohol	43	5.284	5.284	(1.096)	467797	2000.00	1911.86
13	Acetonitrile	39	2.675	2.675	(0.555)	192653	1000.00	1028.24
14	Allyl Chloride	41	2.678	2.678	(0.556)	444263	100.000	100.98
15	Iodomethane	142	2.472	2.472	(0.513)	128699	200.000	201.75
16	Acrylonitrile	53	3.068	3.068	(0.637)	118455	200.000	196.39
17	Methylene Chloride	84	2.798	2.798	(0.581)	159588	100.000	95.92
18	Methyl tert-butyl ether	73	3.087	3.087	(0.641)	417535	100.000	97.54
19	Carbon Disulfide	76	2.525	2.525	(0.524)	796100	200.000	199.79
20	trans-1,2-Dichloroethene	96	3.064	3.064	(0.636)	147881	100.000	98.28

21 Vinyl Acetate	43	4.343	4.343 (0.901)	169891	200.000	196.83
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	280383	100.000	98.51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.616	3.616	(0.750)	239330	100.000	97.58
	24 2-Butanone	43	4.264	4.264	(0.885)	168677	200.000	196.19
	25 Methacrylonitrile	41	4.496	4.496	(0.933)	109481	100.000	100.62(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	221563	100.000	96.52
	27 cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	175084	100.000	98.06
	28 Chloroform	83	4.575	4.575	(0.949)	287623	100.000	99.00
	29 Bromochloromethane	128	4.470	4.470	(0.928)	87433	100.000	88.11
$	30 Dibromofluoromethane	113	4.751	4.751	(0.986)	159953	100.000	97.15
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	234507	100.000	101.90
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	215500	100.000	98.16(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	229280	100.000	99.34
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	192077	100.000	104.39(M)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	196850	100.000	93.74
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	359862	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	650901	100.000	87.88
	38 Trichloroethene	130	5.790	5.790	(1.043)	168252	100.000	93.61
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	209279	100.000	99.97
	40 Methyl Methacrylate	41	5.820	5.820	(1.208)	67419	100.000	103.94
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	12610	200.000	206.99
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	176759	100.000	90.10
	43 2-Nitropropane	43	6.510	6.510	(1.351)	41085	100.000	104.84(M)
	44 Dibromomethane	93	6.120	6.120	(1.102)	103281	100.000	90.19
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	350768	200.000	192.85
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	257388	100.000	105.24
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	330032	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	607305	100.000	94.80
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	223942	100.000	97.98
	50 Toluene	91	6.982	6.982	(0.853)	703496	100.000	93.61
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	213403	100.000	94.22
	52 2-Hexanone	43	7.218	7.218	(0.882)	232489	200.000	191.07
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	128815	100.000	88.65
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	275864	100.000	90.33
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	165169	100.000	108.95
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	135713	100.000	96.49
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	153863	100.000	95.92
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	128328	100.000	93.24
	59 Chlorobenzene	112	8.211	8.211	(1.003)	439831	100.000	97.00
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	157278	100.000	97.42
	61 Ethylbenzene	106	8.309	8.309	(1.015)	227251	100.000	97.72
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	574673	200.000	206.97
	63 o-Xylene	106	8.747	8.747	(1.069)	281173	100.000	102.76
	64 Styrene	104	8.762	8.762	(1.071)	484409	100.000	105.89
	66 Bromoform	173	8.920	8.920	(1.090)	106443	100.000	98.15
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	716163	100.000	105.50
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	217556	100.000	97.15
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	230325	100.000	91.51
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	182129	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	220140	100.000	95.20
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	45120	100.000	97.83
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	817929	100.000	103.85
	74 Bromobenzene	156	9.317	9.317	(0.916)	197434	100.000	92.26
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	586805	100.000	96.15

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	502095	100.000	94.20
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	587704	100.000	97.15

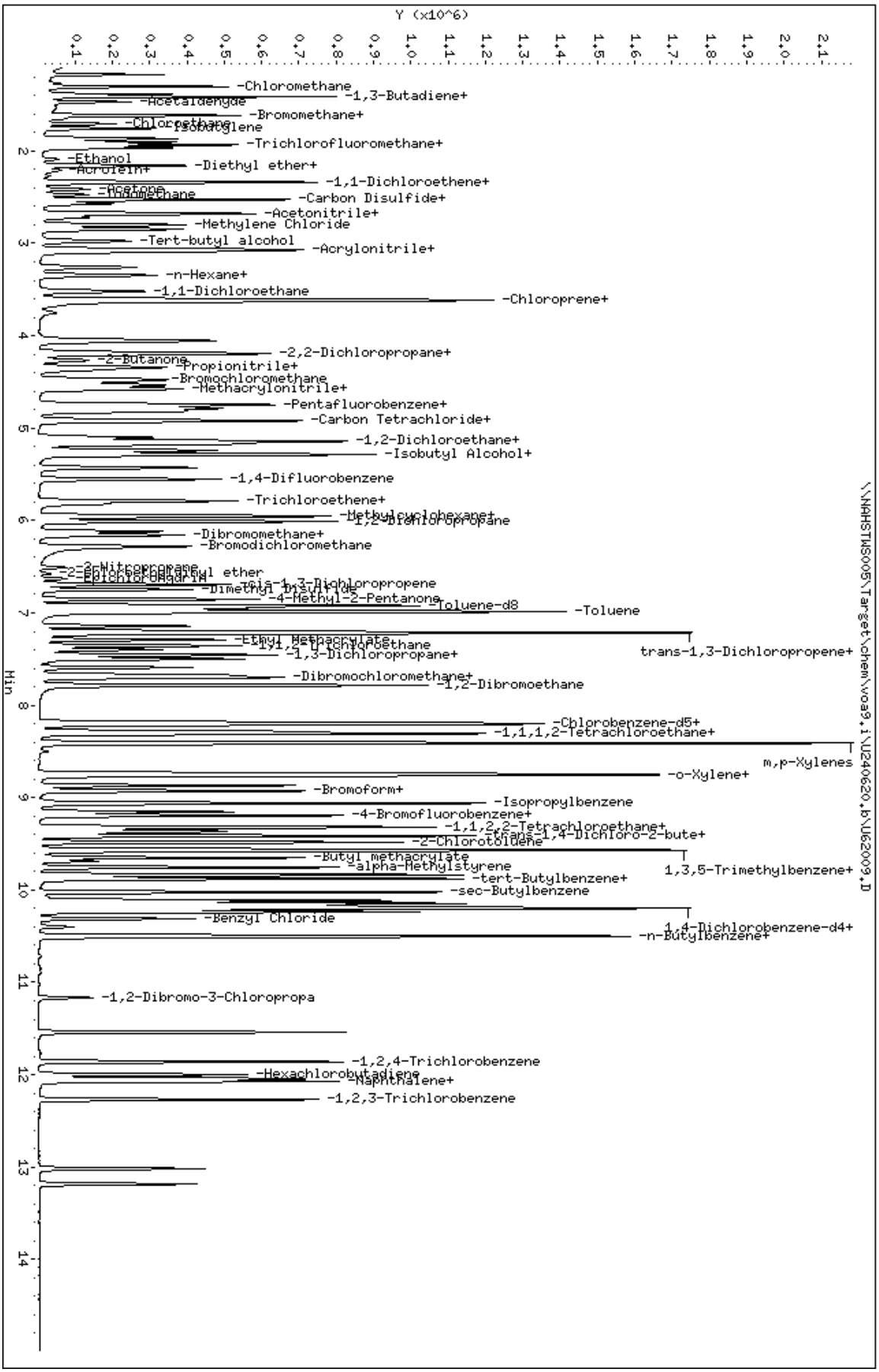
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	505818	100.000	105.37
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	557088	100.000	96.12(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	683448	100.000	106.91
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	597283	100.000	95.41
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	354480	100.000	90.03
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	365510	100.000	97.54
86	Benzyl Chloride	91	10.311	10.311	(1.260)	265629	100.000	92.12
87	n-Butylbenzene	91	10.494	10.494	(1.032)	534334	100.000	96.31
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	347261	100.000	88.58
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	29112	100.000	98.40
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	238981	100.000	100.76
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	103114	100.000	98.05
92	Naphthalene	128	12.069	12.069	(1.186)	549668	100.000	97.40
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	216756	100.000	99.81
146	Methyl acetate	43	2.720	2.720	(0.564)	129001	100.000	103.24
138	Freon TF	101	2.341	2.341	(0.486)	132225	100.000	99.90
141	Cyclohexane	56	4.785	4.785	(0.993)	228460	100.000	96.47
142	Tetrahydrofuran	42	4.541	4.541	(0.942)	61276	200.000	208.74
147	Methylcyclohexane	55	5.947	5.947	(1.071)	403390	100.000	105.56(A)
135	1,4-Dioxane	88	6.168	6.168	(1.280)	38441	2000.00	2029.31
132	n-Butanol	56	5.824	5.824	(1.208)	94987	2000.00	2009.25
136	n-Hexane	57	3.346	3.346	(0.694)	155405	100.000	97.78
139	Diethyl ether	59	2.150	2.150	(0.446)	123190	100.000	103.55
148	Tert-butyl alcohol	59	2.974	2.974	(0.617)	280071	2000.00	1986.51
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	219355	2000.00	2025.63
156	Diisopropyl ether	45	3.623	3.623	(0.752)	539937	100.000	90.31
162	Butyl acrylate	55	8.732	8.732	(1.067)	305461	100.000	100.54
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	755744	100.000	95.83
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	527417	100.000	101.24
167	Ethanol	45	2.090	2.090	(0.434)	42645	2000.00	2056.96
172	tert-Butyl formate	59	5.242	5.242	(1.088)	292643	200.000	200.02(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	983232	2000.00	1981.17
140	1,3-Butadiene	54	1.411	1.411	(0.293)	214164	100.000	100.62
182	Epichlorohydrin	57	6.629	6.629	(1.194)	28979	400.000	405.67
M 94	1,2-Dichloroethylene (total)	96				322965	200.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	219549	100.000	99.22
130	Ethyl Acetate	43	4.534	4.534	(0.941)	57395	100.000	100.32(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	191883	100.000	93.41
189	n-Butyl acetate	43	7.705	7.705	(0.941)	264922	100.000	100.67
134	Cyclohexanone	55	9.152	9.152	(0.900)	194238	2000.00	2030.58
185	Isoprene	39	2.161	2.161	(0.449)	35974	100.000	99.96
188	Isopropyl acetate	43	5.284	5.284	(0.951)	467903	100.000	97.23
150	Allyl alcohol	57	3.346	3.346	(0.694)	155405	2000.00	1955.71
194	Acetaldehyde	44	1.468	1.468	(0.305)	154867	400.000	373.78(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	167585	100.000	99.85
202	Isobutylene	41	1.756	1.756	(0.364)	81097	100.000	96.86(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	403390	100.000	103.46
163	Butyl methacrylate	41	9.651	9.651	(0.949)	177629	100.000	96.77
159	Propylene oxide	43	2.206	2.206	(0.458)	23265	200.000	205.46(A)
178	Ethylene oxide	44	1.610	1.610	(0.334)	427784	200.000	232.48
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	219028	100.000	101.22
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	181629	100.000	96.84(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	339960	100.000	92.19(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	277181	100.000	94.93

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.932	1.932	(0.401)	261855	100.000	102.91(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240620,b\U62009,D
Date : 20-JUN-2024 13:53
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

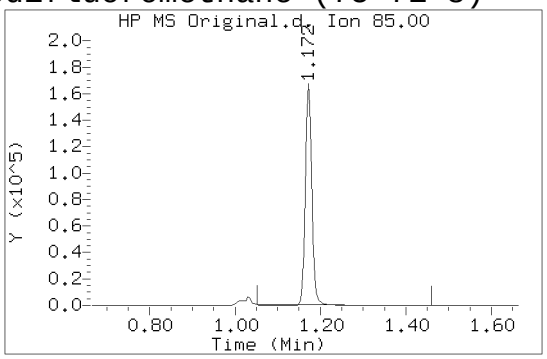
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InstruID : VOA9.i
LabSampID : VSTD100

Dichlorodifluoromethane (75-71-8)

Reason Code:

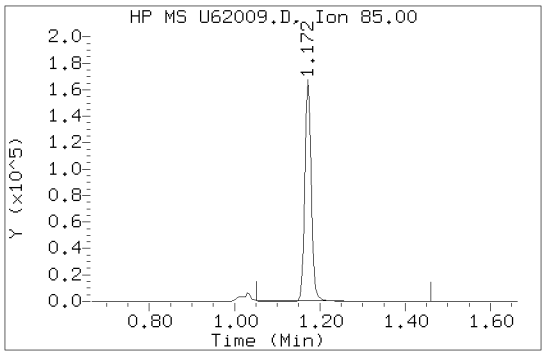
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12:15
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zaid



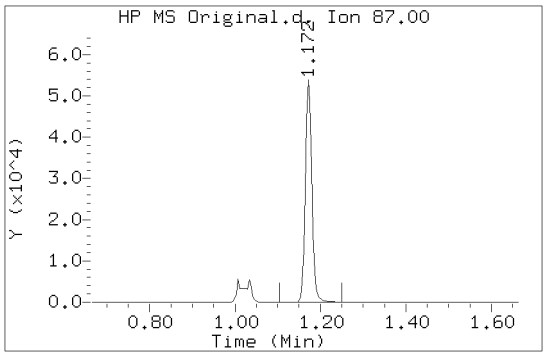
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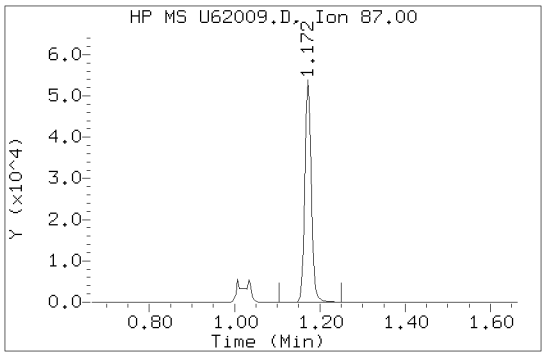
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29-Jun-2024
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AFTER

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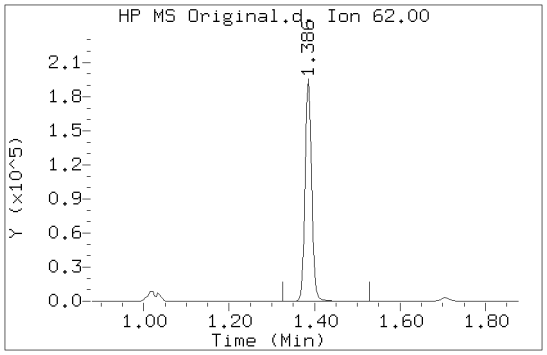


Vinyl Chloride (75-01-4)

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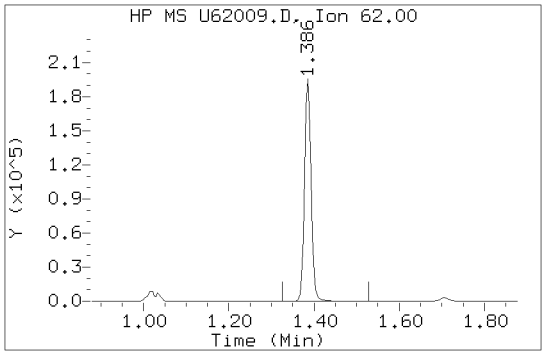
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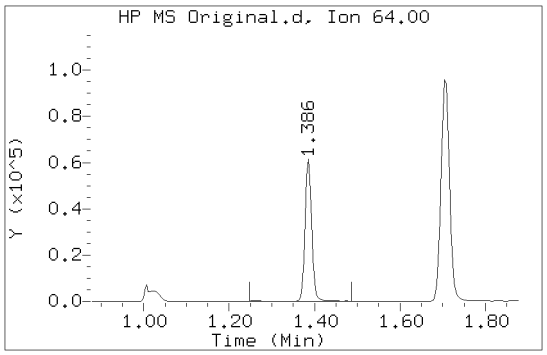
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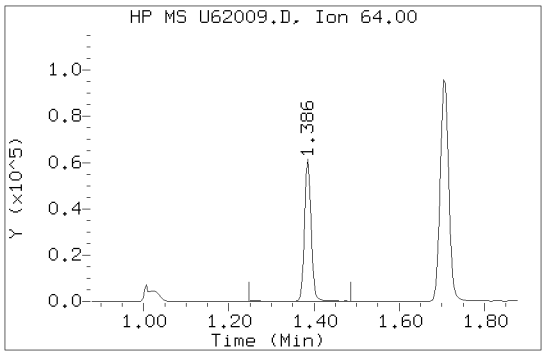
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29-Jun-2024
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AFTER

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HEIGHT
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29-Jun-2024
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s
zaid



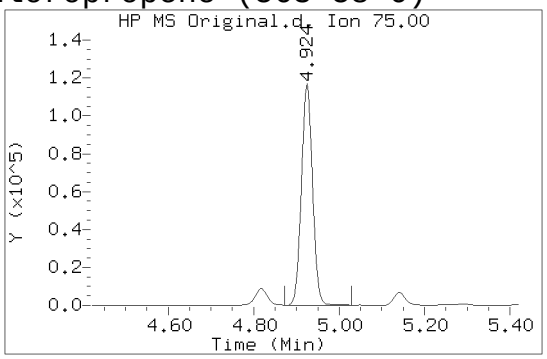
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InstruID : VOA9.i
LabSampID : VSTD100

1,1-Dichloropropene (563-58-6)

Reason Code:

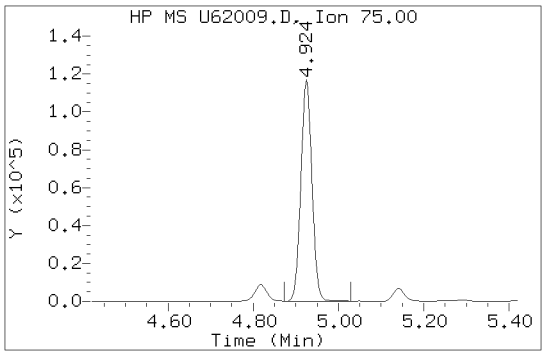
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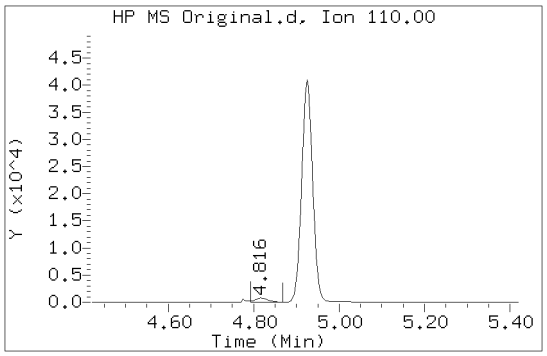
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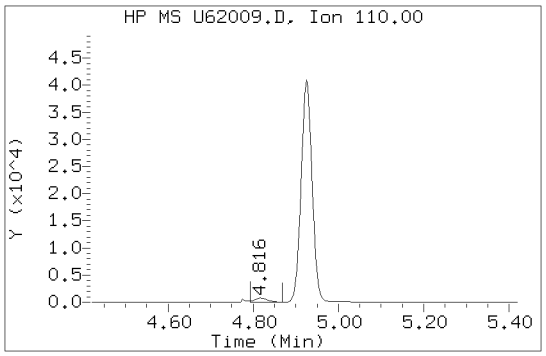
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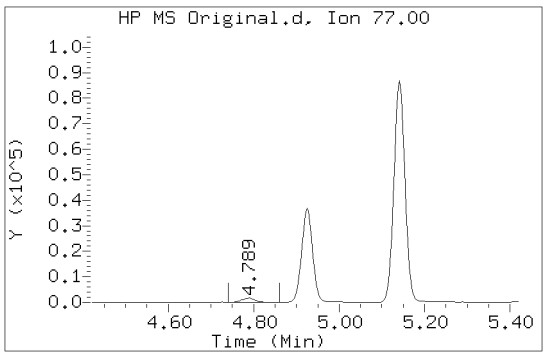
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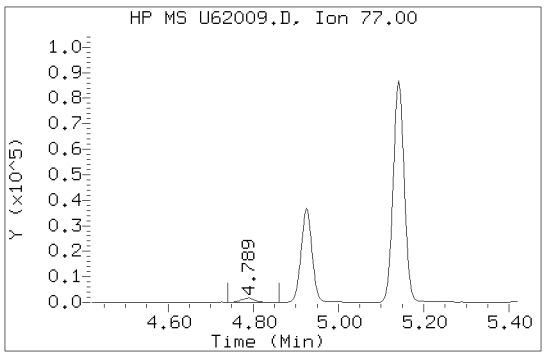
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zaid

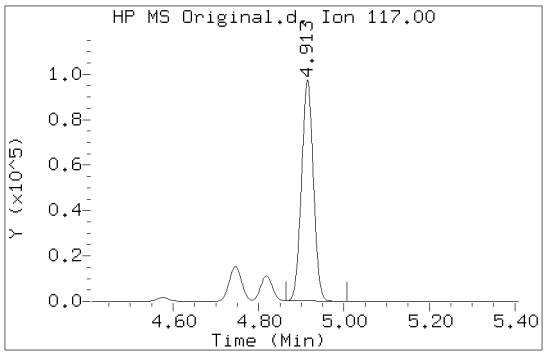


Carbon Tetrachloride (56-23-5)

Reason Code:

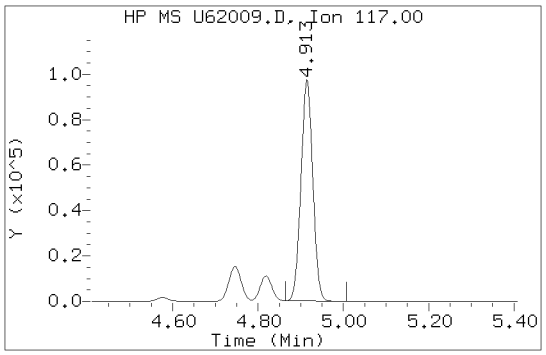
BEFORE

MASS
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97460
29-Jun-2024
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AFTER

MASS
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AREA
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29-Jun-2024
12:18
s
zaid



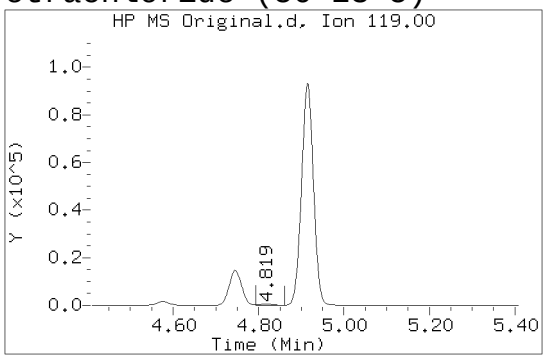
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Inj Date : 20-JUN-2024 13:53
InstruID : VOA9.i
LabSampID : VSTD100

Carbon Tetrachloride (56-23-5)

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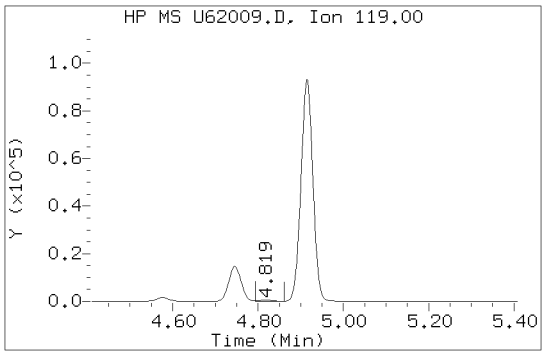
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AFTER

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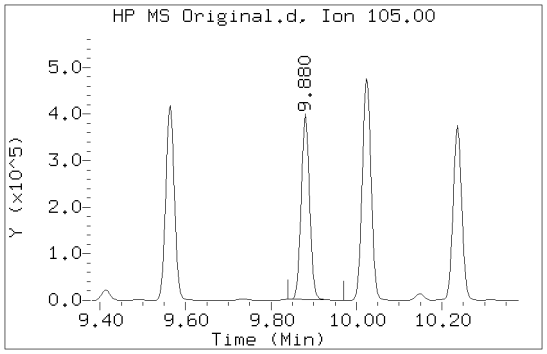


1,2,4-Trimethylbenzene (95-63-6)

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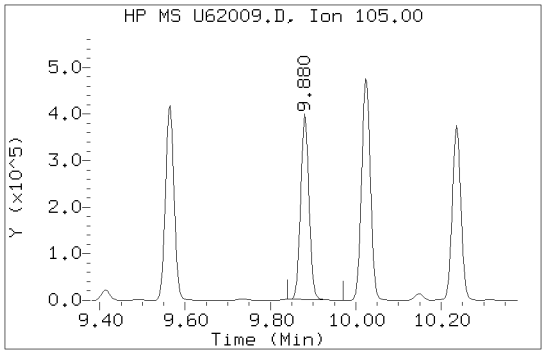
BEFORE

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29-Jun-2024
12:15
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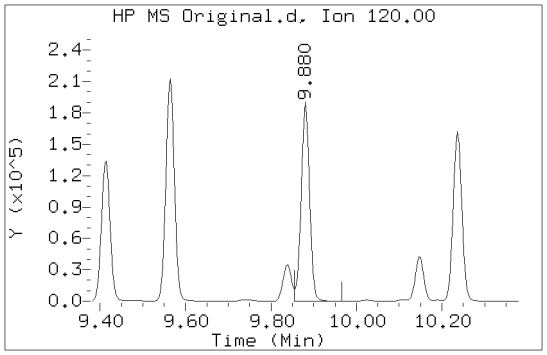
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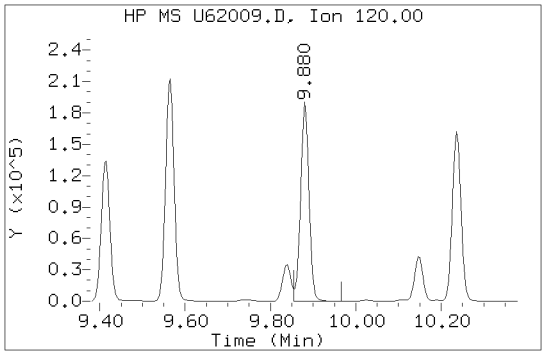
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AFTER

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12:18
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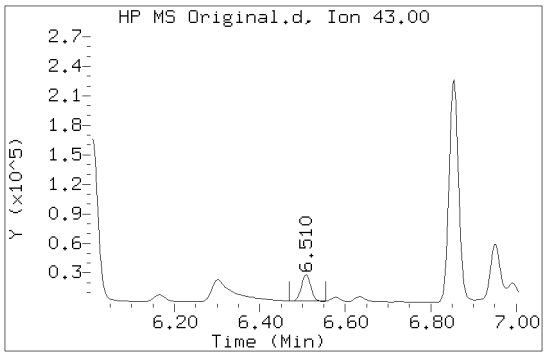


2-Nitropropane (79-46-9)

Reason Code:

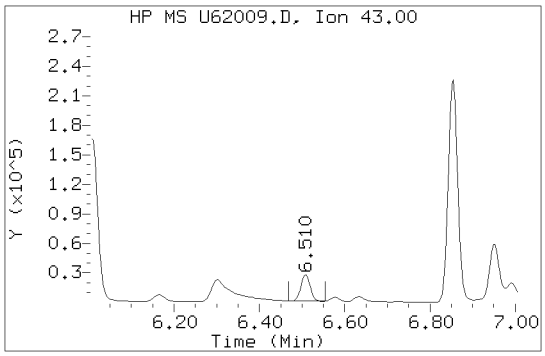
BEFORE

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26681
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AFTER

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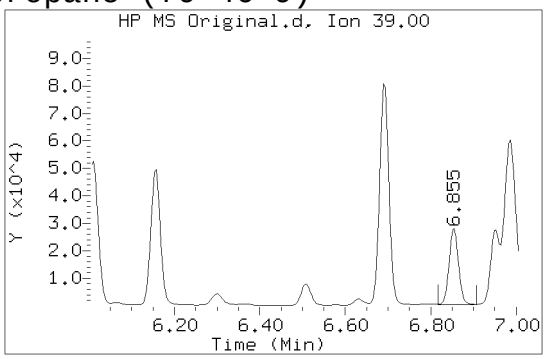
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InstruID : VOA9.i
LabSampID : VSTD100

2-Nitropropane (79-46-9)

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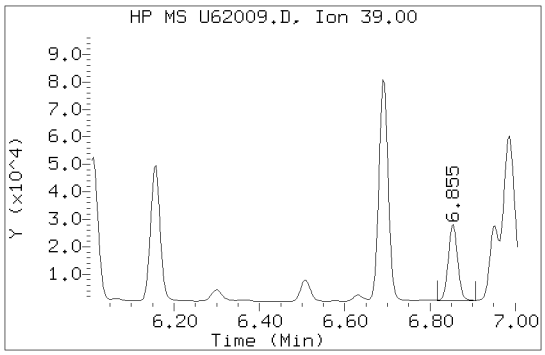
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AFTER

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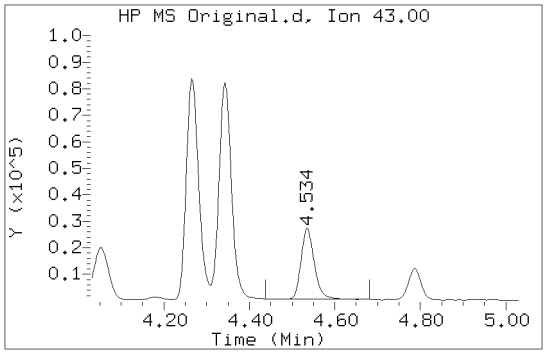


Ethyl Acetate (141-78-6)

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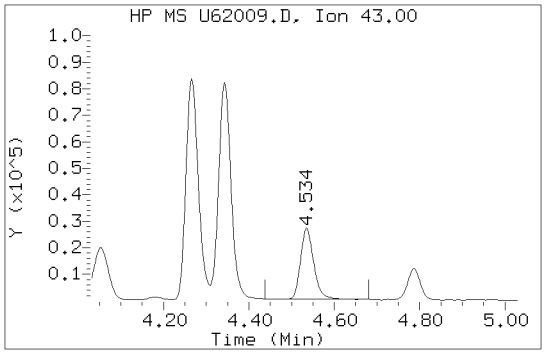
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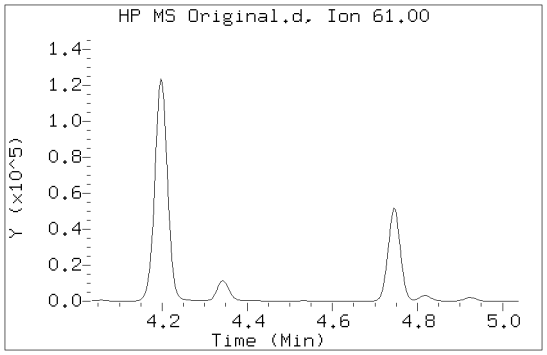
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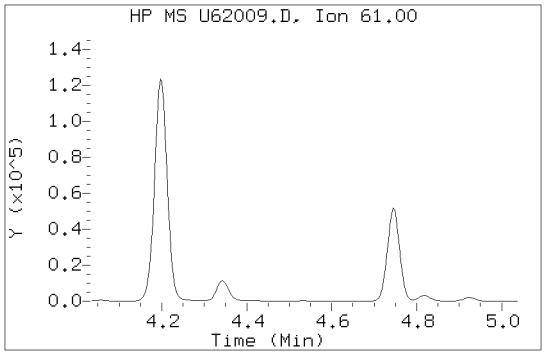
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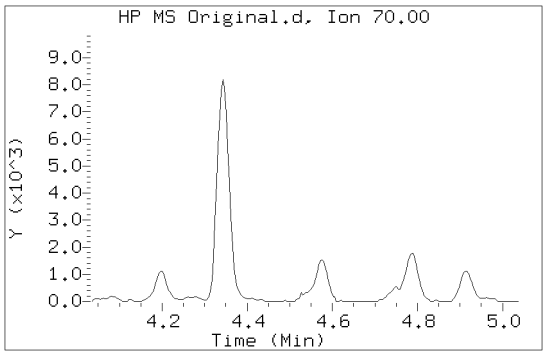
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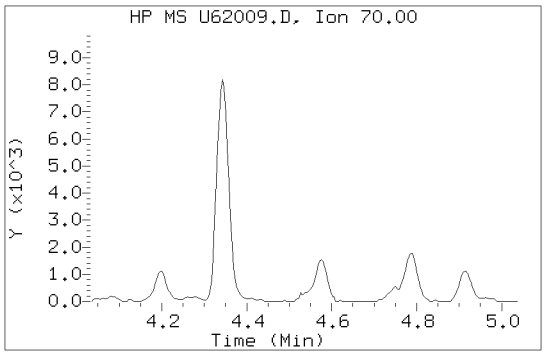
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AFTER

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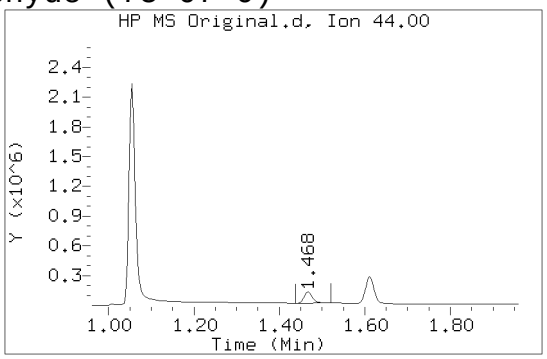
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LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

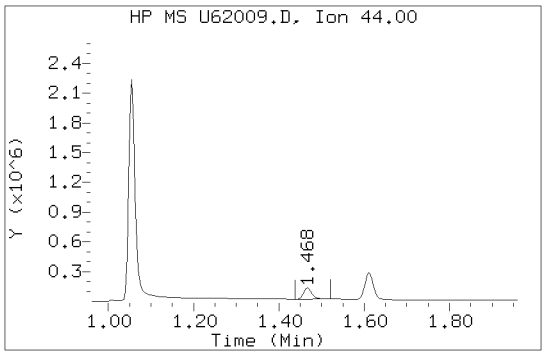
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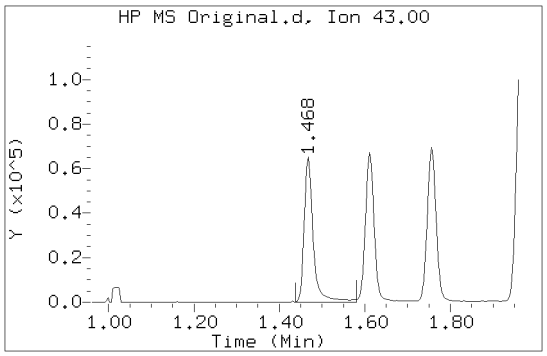
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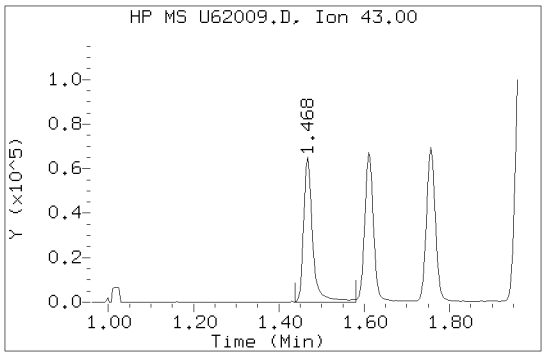
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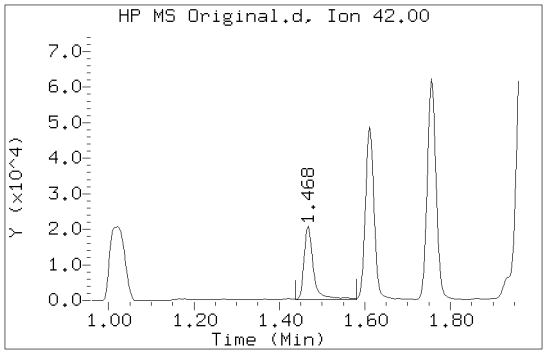
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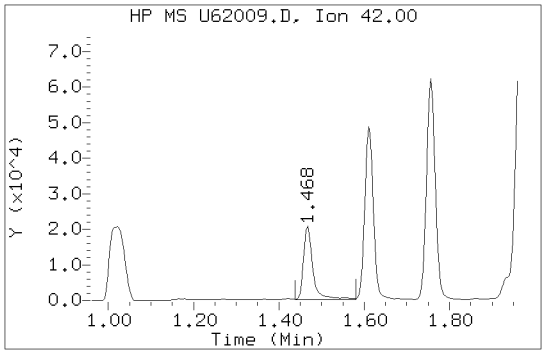
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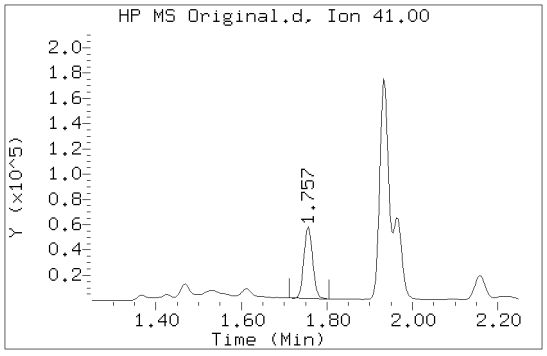


Isobutylene (115-11-7)

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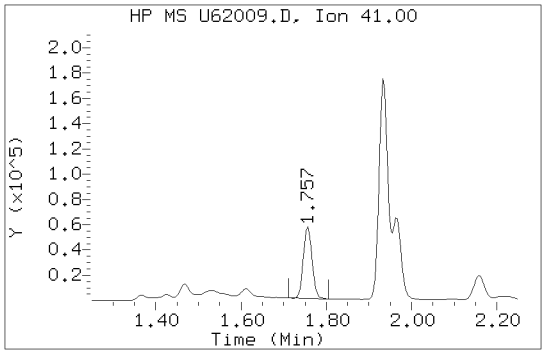
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AFTER

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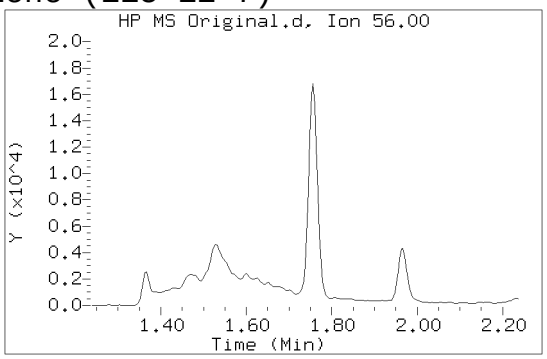
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LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

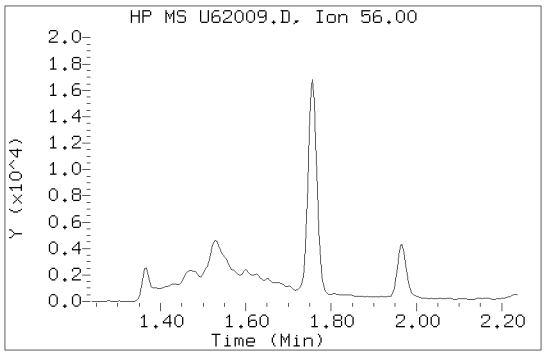
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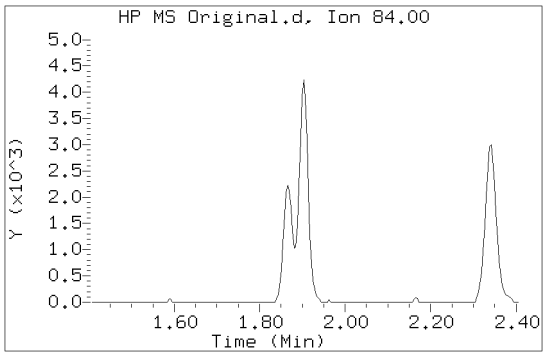
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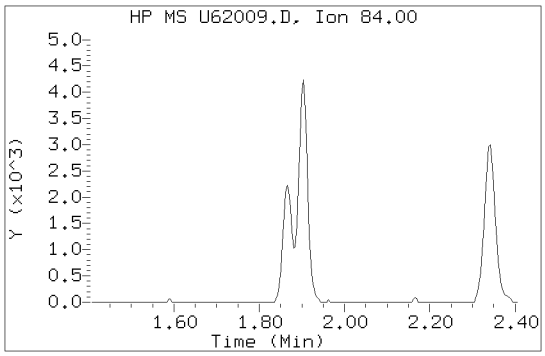
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AFTER

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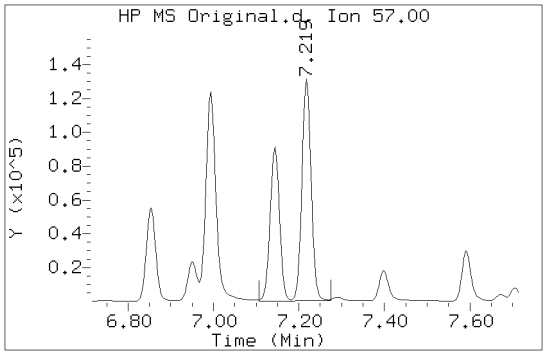


sec-Butyl Ether (6863-58-7)

Reason Code:

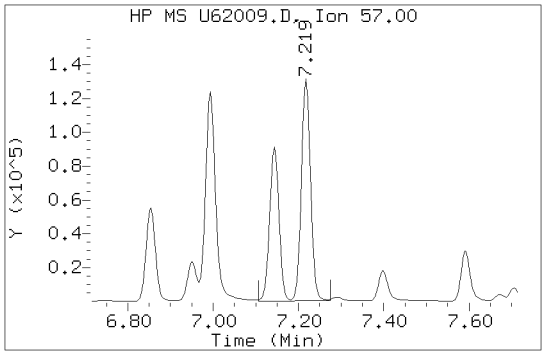
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AFTER

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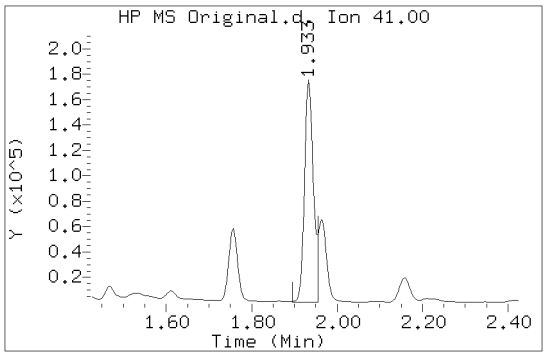


2-Chloropropene (557-98-2)

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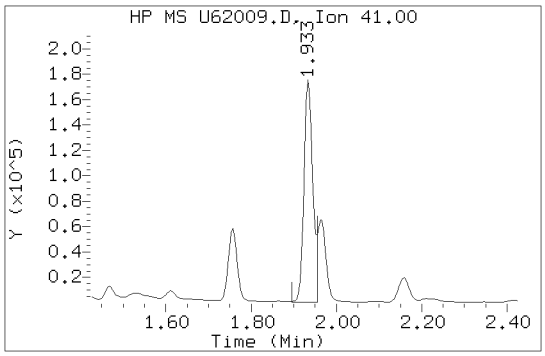
BEFORE

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HEIGHT
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29-Jun-2024
12:15
s
zaid



AFTER

MASS
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261855
HEIGHT
174930
29-Jun-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.D Page 1
Report Date: 29-Jun-2024 12:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62010.D
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Inj Date : 20-JUN-2024 14:15
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
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Comment   :
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Meth Date : 29-Jun-2024 12:15 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 13:53 Cal File: U62009.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	252939	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	283969	150.000	157.20
3 Chloromethane	50	1.299	1.299	(0.270)	541083	150.000	151.57
4 Propionitrile	54	4.335	4.335	(0.900)	353474	1500.00	1473.16
5 Vinyl Chloride	62	1.378	1.378	(0.286)	335402	150.000	149.31
6 Bromomethane	94	1.610	1.610	(0.334)	130142	150.000	151.18
7 Chloroethane	64	1.696	1.696	(0.352)	208991	150.000	151.18
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	380170	150.000	156.92
9 Acrolein	56	2.266	2.266	(0.471)	24292	300.000	297.17
10 Acetone	43	2.409	2.409	(0.500)	182887	300.000	296.98
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	206596	150.000	140.01
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	730148	3000.00	2924.09
13 Acetonitrile	39	2.671	2.671	(0.555)	280872	1500.00	1473.43
14 Allyl Chloride	41	2.671	2.671	(0.555)	651842	150.000	146.67
15 Iodomethane	142	2.469	2.469	(0.513)	236209	300.000	299.54
16 Acrylonitrile	53	3.065	3.065	(0.636)	179501	300.000	291.87
17 Methylene Chloride	84	2.795	2.795	(0.580)	251424	150.000	153.74
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	637081	150.000	145.64
19 Carbon Disulfide	76	2.521	2.521	(0.524)	1214971	300.000	298.78
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	230456	150.000	150.34

21 Vinyl Acetate	43	4.339	4.339 (0.901)	263548	300.000	299.37
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	435781	150.000	150.45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	377420	150.000	150.94
	24 2-Butanone	43	4.260	4.260	(0.885)	264601	300.000	301.50
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	168016	150.000	151.66(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	352166	150.000	150.02
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	274517	150.000	150.84
	28 Chloroform	83	4.572	4.572	(0.949)	445066	150.000	150.57
	29 Bromochloromethane	128	4.470	4.470	(0.928)	133328	150.000	131.66
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	242663	150.000	144.43
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	372467	150.000	158.60
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	342907	150.000	154.82(M)
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	348168	150.000	150.10
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	311762	150.000	167.94(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	298227	150.000	139.16
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	363077	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	1025192	150.000	137.19
	38 Trichloroethene	130	5.786	5.786	(1.043)	264607	150.000	145.91
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	331544	150.000	156.98
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	104765	150.000	158.27
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	35270	300.000	299.30
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	276191	150.000	139.54
	43 2-Nitropropane	43	6.506	6.506	(1.351)	67540	150.000	168.88(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	161146	150.000	139.48
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	557840	300.000	302.19
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	414270	150.000	167.89
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	334950	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	933941	150.000	143.65
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	352864	150.000	153.03
	50 Toluene	91	6.982	6.982	(0.853)	1093938	150.000	143.44
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	345365	150.000	149.80
	52 2-Hexanone	43	7.218	7.218	(0.882)	364859	300.000	295.93
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	199777	150.000	135.47
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	434843	150.000	140.30
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	264746	150.000	172.07
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	213245	150.000	149.40
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	238860	150.000	146.73
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	205637	150.000	148.53
	59 Chlorobenzene	112	8.208	8.208	(1.003)	691759	150.000	150.76
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	249048	150.000	152.00
	61 Ethylbenzene	106	8.305	8.305	(1.015)	362809	150.000	153.72
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	906456	300.000	321.68
	63 o-Xylene	106	8.748	8.748	(1.069)	445348	150.000	160.37
	64 Styrene	104	8.763	8.763	(1.071)	772219	150.000	166.33
	66 Bromoform	173	8.920	8.920	(1.090)	177855	150.000	152.53
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	1133559	150.000	164.53
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	337416	150.000	148.50
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	350901	150.000	137.36
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	185008	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	349375	150.000	148.28
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	68780	150.000	146.95
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	1299196	150.000	162.39
	74 Bromobenzene	156	9.317	9.317	(0.916)	307931	150.000	141.66
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	932820	150.000	149.51

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	781832	150.000	144.40
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	918518	150.000	149.48

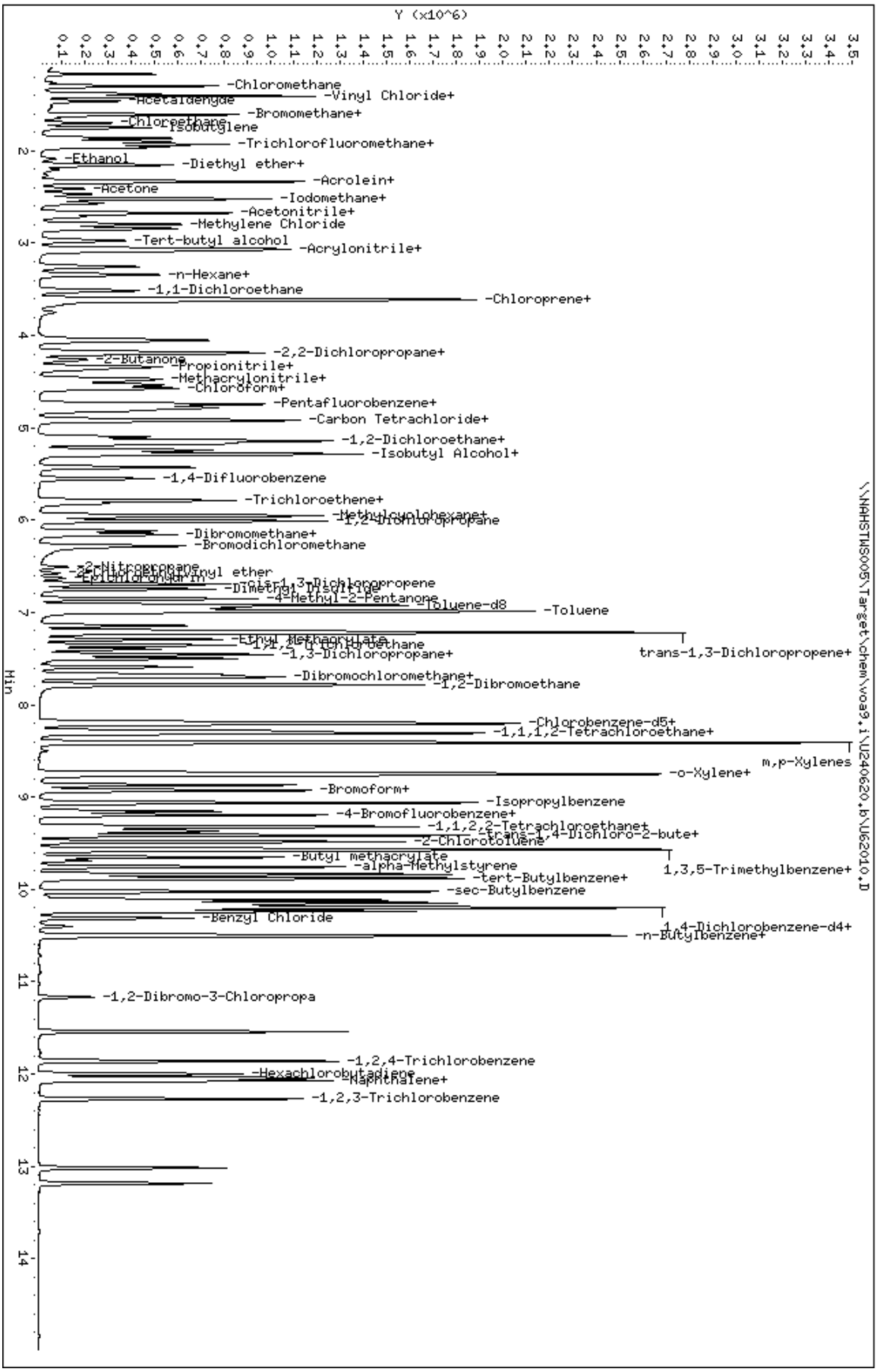
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	791680	150.000	162.36
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	918786	150.000	156.06(M)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	1076201	150.000	165.73
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	955586	150.000	149.33
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	551926	150.000	137.99
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	567963	150.000	149.54
86	Benzyl Chloride	91	10.311	10.311	(1.260)	428103	150.000	149.48
87	n-Butylbenzene	91	10.495	10.495	(1.032)	845811	150.000	149.33
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	538275	150.000	135.17
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	48564	150.000	151.47
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	378110	150.000	156.94
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	163770	150.000	153.30
92	Naphthalene	128	12.069	12.069	(1.186)	862491	150.000	149.39
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	339635	150.000	153.96
146	Methyl acetate	43	2.712	2.712	(0.563)	195904	150.000	154.89
138	Freon TF	101	2.334	2.334	(0.485)	202073	150.000	149.86
141	Cyclohexane	56	4.785	4.785	(0.994)	361451	150.000	150.10
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	92392	300.000	308.42
147	Methylcyclohexane	55	5.944	5.944	(1.071)	635742	150.000	164.89(A)
135	1,4-Dioxane	88	6.165	6.165	(1.280)	57382	3000.00	2896.08
132	n-Butanol	56	5.820	5.820	(1.209)	152062	3000.00	2990.95
136	n-Hexane	57	3.342	3.342	(0.694)	255546	150.000	157.56
139	Diethyl ether	59	2.146	2.146	(0.446)	175770	150.000	145.18
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	431407	3000.00	3004.82
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	317765	3000.00	2881.85
156	Diisopropyl ether	45	3.619	3.619	(0.752)	824738	150.000	135.18
162	Butyl acrylate	55	8.733	8.733	(1.067)	502445	150.000	162.96
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	1174799	150.000	146.66
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	831618	150.000	157.16
167	Ethanol	45	2.086	2.086	(0.433)	62069	3000.00	2943.72
172	tert-Butyl formate	59	5.243	5.243	(1.089)	463523	300.000	252.25(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	1567700	3000.00	3130.89
140	1,3-Butadiene	54	1.408	1.408	(0.292)	332150	150.000	152.92
182	Epichlorohydrin	57	6.630	6.630	(1.195)	52054	600.000	598.48
M 94	1,2-Dichloroethylene (total)	96				504973	300.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	361012	150.000	151.71
130	Ethyl Acetate	43	4.534	4.534	(0.942)	84064	150.000	144.91(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	295559	150.000	140.99
189	n-Butyl acetate	43	7.706	7.706	(0.941)	413098	150.000	154.68
134	Cyclohexanone	55	9.152	9.152	(0.900)	292482	3000.00	2948.40
185	Isoprene	39	2.157	2.157	(0.448)	54150	150.000	147.44
188	Isopropyl acetate	43	5.284	5.284	(0.952)	711670	150.000	146.58
150	Allyl alcohol	57	3.342	3.342	(0.694)	255546	3000.00	3151.30
194	Acetaldehyde	44	1.460	1.460	(0.303)	235556	600.000	557.10(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	313794	150.000	98.42
202	Isobutylene	41	1.749	1.749	(0.363)	128344	150.000	149.50(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	635742	150.000	159.78
163	Butyl methacrylate	41	9.647	9.647	(0.948)	269158	150.000	144.66
159	Propylene oxide	43	2.199	2.199	(0.457)	33334	300.000	288.46(A)
178	Ethylene oxide	44	1.603	1.603	(0.333)	617399	300.000	328.79
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	363161	150.000	149.57
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	279468	150.000	146.82(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	541394	150.000	144.66(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	451445	150.000	152.35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.929	1.929	(0.401)	403173	150.000	155.26(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTNS005\Target\chem\voa9,i\U240620,b\U62010,D
Date : 20-JUN-2024 14:15
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

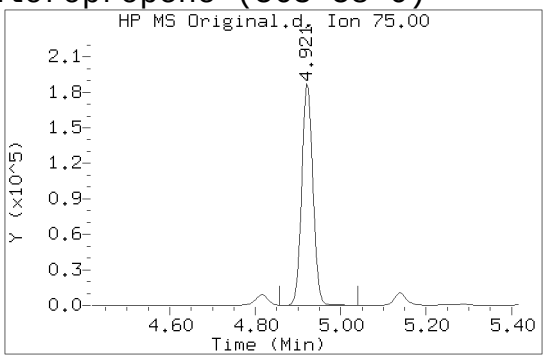
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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

1,1-Dichloropropene (563-58-6)

Reason Code:

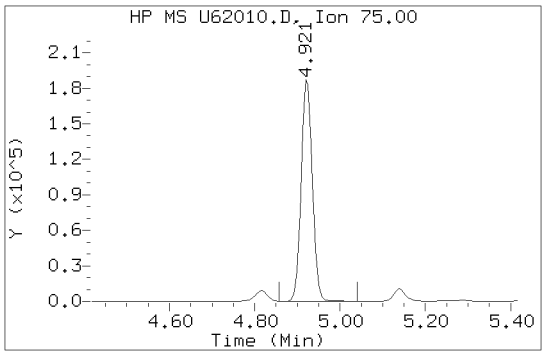
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HEIGHT
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29-Jun-2024
12:15
s
zaid



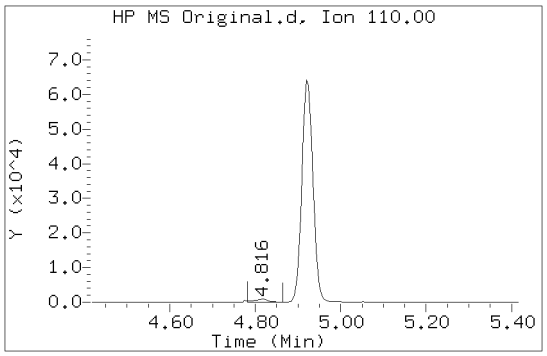
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29-Jun-2024
12:15
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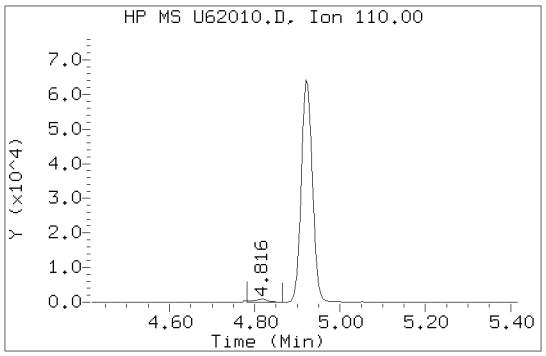
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1966
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12:15
s
zaid



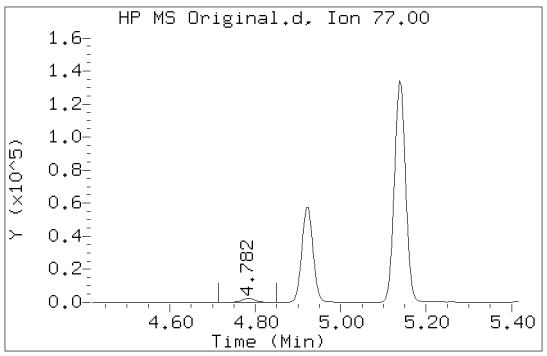
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932
29-Jun-2024
12:15
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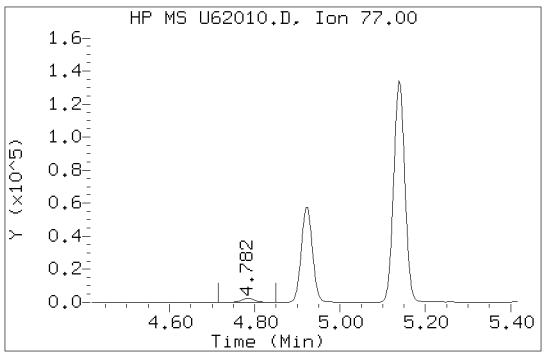
BEFORE

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2381
29-Jun-2024
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AFTER

MASS
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AREA
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HEIGHT
2381
29-Jun-2024
12:15
s
zaid

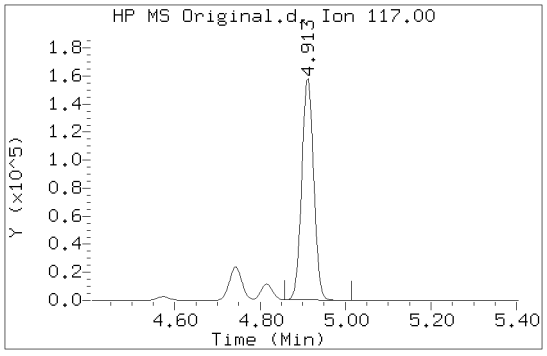


Carbon Tetrachloride (56-23-5)

Reason Code:

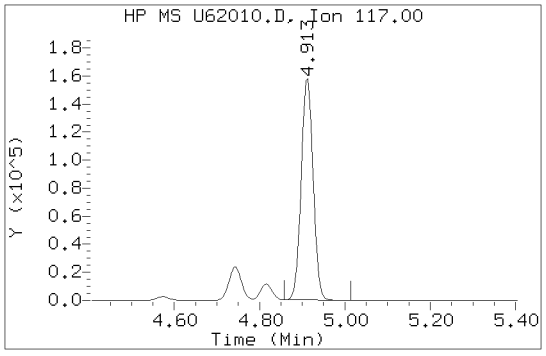
BEFORE

MASS
117
AREA
311762
HEIGHT
157842
29-Jun-2024
12:15
s
zaid



AFTER

MASS
117
AREA
311762
HEIGHT
157842
29-Jun-2024
12:15
s
zaid



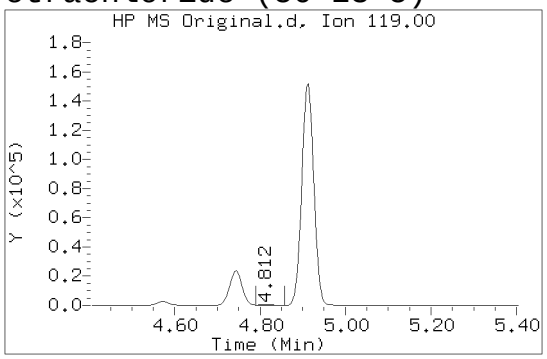
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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

Carbon Tetrachloride (56-23-5)

Reason Code:

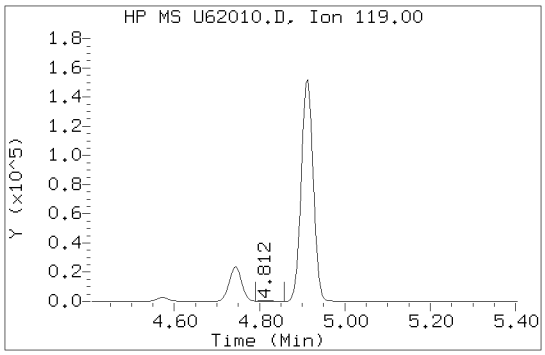
BEFORE

MASS
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AREA
1179
HEIGHT
540
29-Jun-2024
12:15
s
zaid



AFTER

MASS
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AREA
1179
HEIGHT
540
29-Jun-2024
12:15
s
zaid

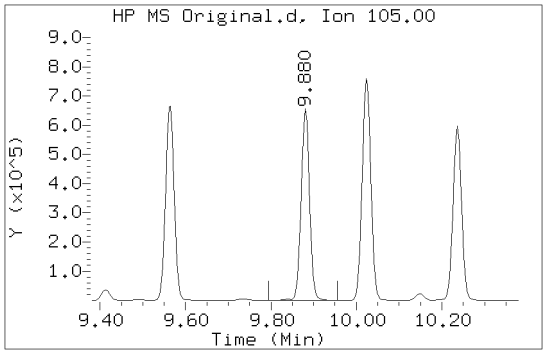


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

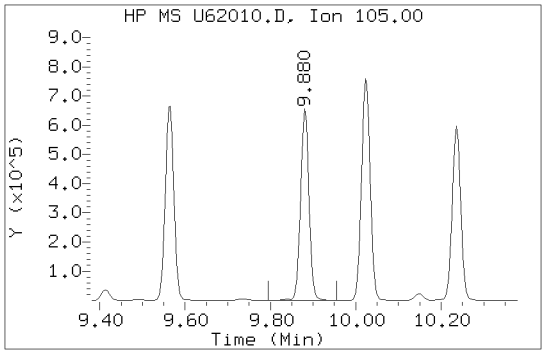
BEFORE

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AREA
918786
HEIGHT
656371
29-Jun-2024
12:15
s
zaid



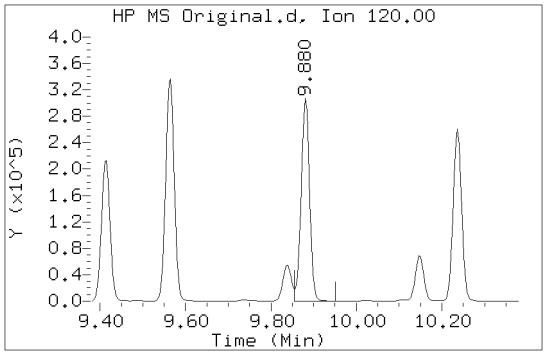
AFTER

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HEIGHT
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29-Jun-2024
12:15
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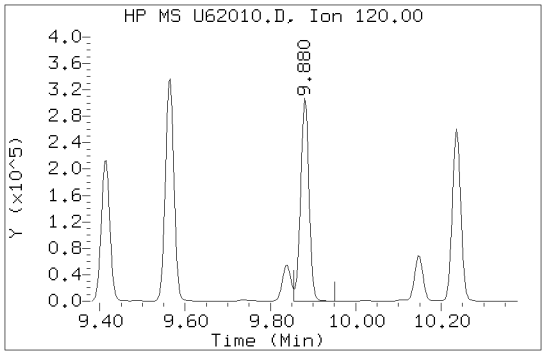
BEFORE

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AREA
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HEIGHT
307738
29-Jun-2024
12:15
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AFTER

MASS
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430608
HEIGHT
307738
29-Jun-2024
12:15
s
zaid

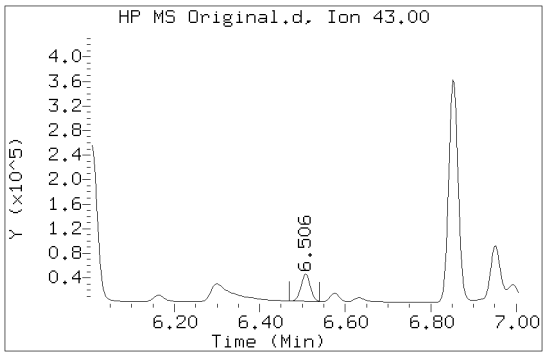


2-Nitropropane (79-46-9)

Reason Code:

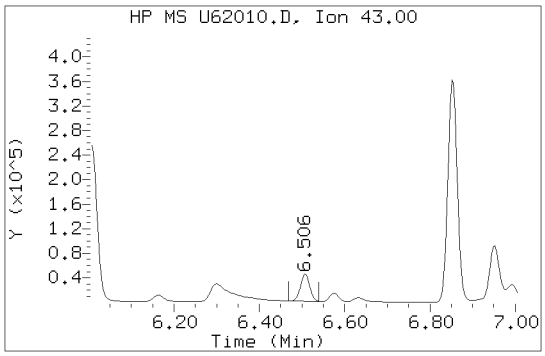
BEFORE

MASS
43
AREA
67540
HEIGHT
44372
29-Jun-2024
12:15
s
zaid



AFTER

MASS
43
AREA
67540
HEIGHT
44372
29-Jun-2024
12:15
s
zaid



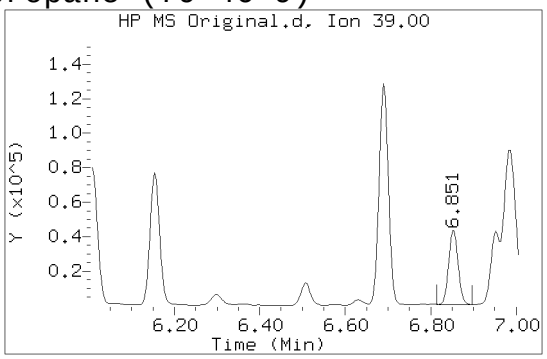
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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

2-Nitropropane (79-46-9)

Reason Code:

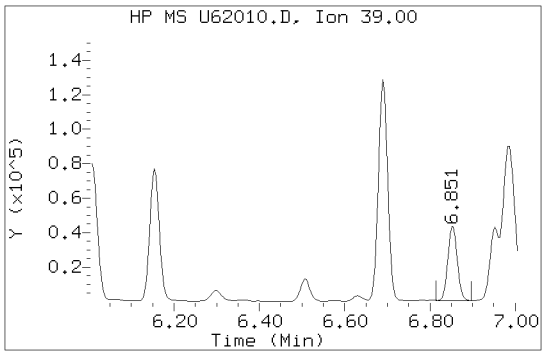
BEFORE

MASS
39
AREA
66125
HEIGHT
43214
29-Jun-2024
12:15
s
zaid



AFTER

MASS
39
AREA
66125
HEIGHT
43214
29-Jun-2024
12:15
s
zaid

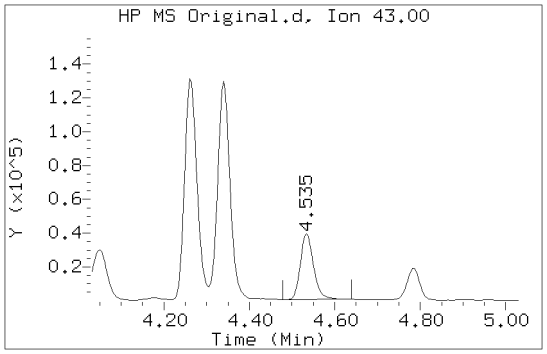


Ethyl Acetate (141-78-6)

Reason Code:

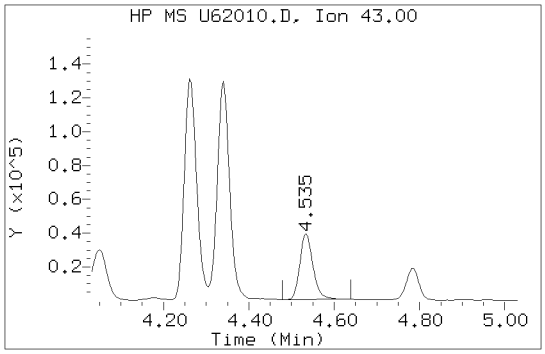
BEFORE

MASS
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HEIGHT
39073
29-Jun-2024
12:15
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zaid



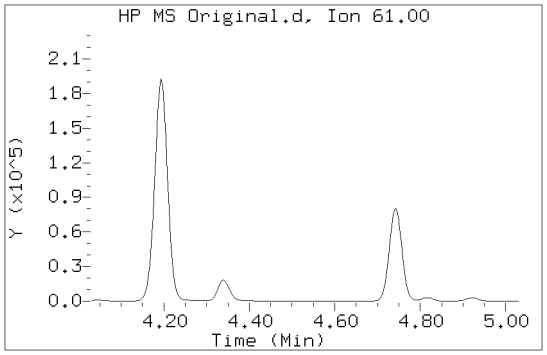
AFTER

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HEIGHT
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29-Jun-2024
12:15
s
zaid



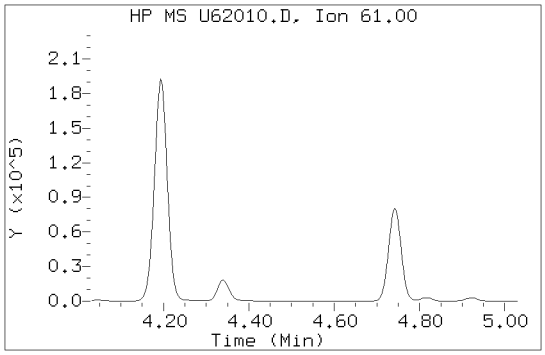
BEFORE

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AREA
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HEIGHT
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29-Jun-2024
12:15
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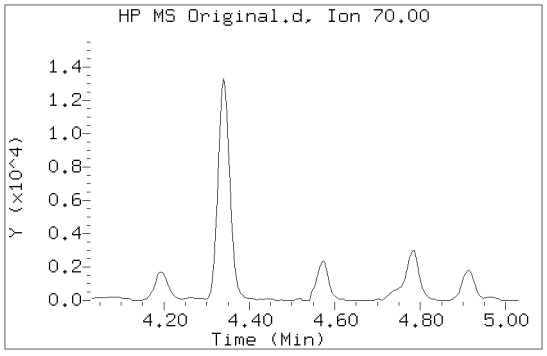
AFTER

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29-Jun-2024
12:15
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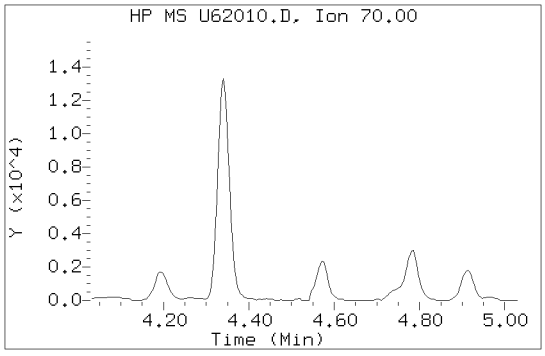
BEFORE

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29-Jun-2024
12:15
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zaid



AFTER

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AREA
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HEIGHT
0
29-Jun-2024
12:15
s
zaid



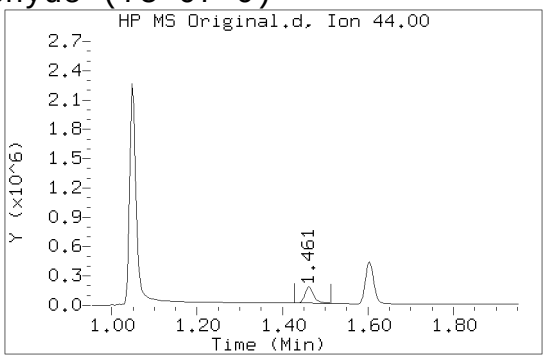
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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

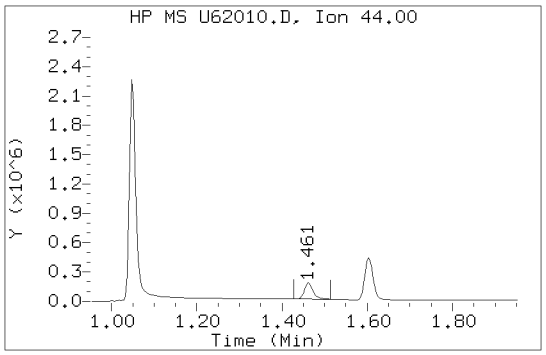
BEFORE

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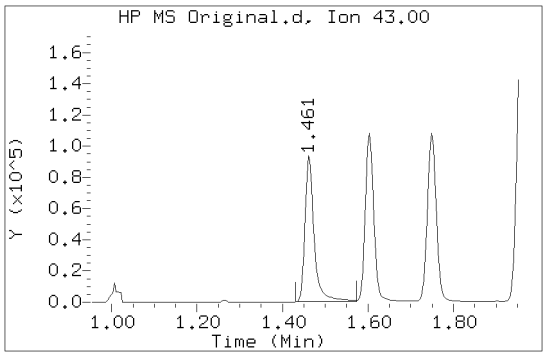
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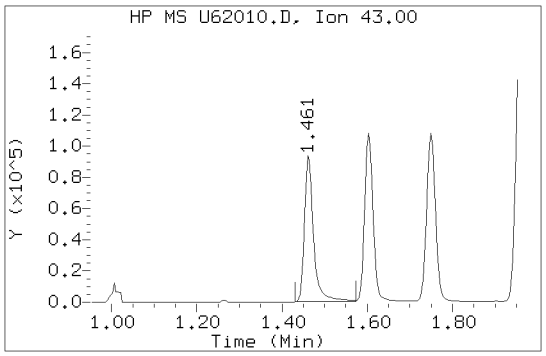
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29-Jun-2024
12:15
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zaid



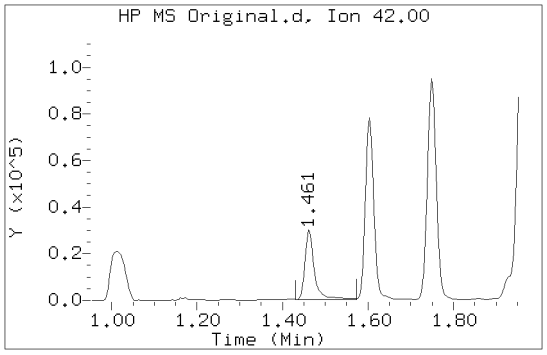
AFTER

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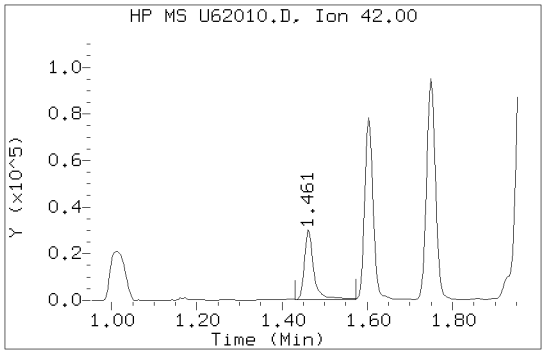
BEFORE

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AFTER

MASS
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46747
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29919
29-Jun-2024
12:15
s
zaid

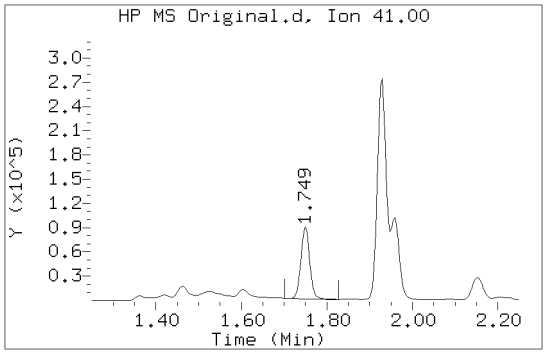


Isobutylene (115-11-7)

Reason Code:

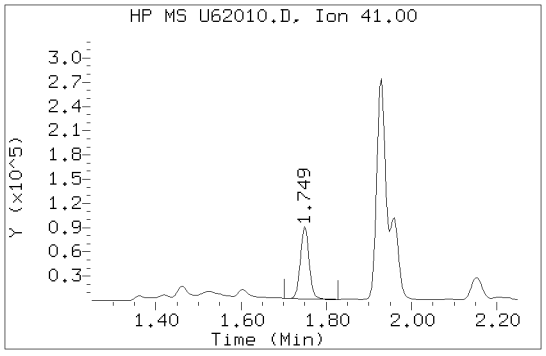
BEFORE

MASS
41
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128344
HEIGHT
88820
29-Jun-2024
12:15
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zaid



AFTER

MASS
41
AREA
128344
HEIGHT
88820
29-Jun-2024
12:15
s
zaid



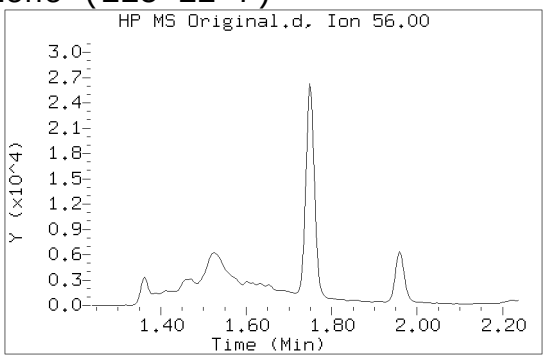
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Inj Date : 20-JUN-2024 14:15
InstruID : VOA9.i
LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

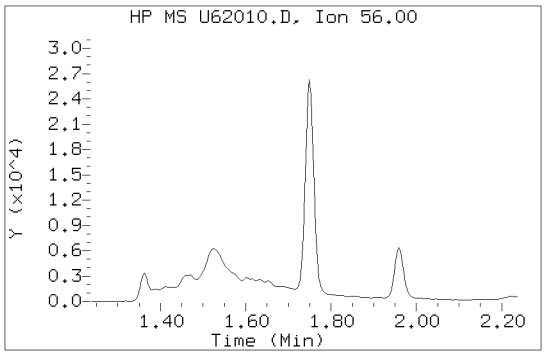
BEFORE

MASS
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AREA
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HEIGHT
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29-Jun-2024
12:15
s
zaid



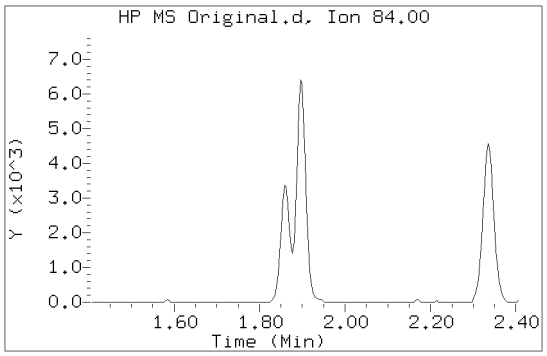
AFTER

MASS
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AREA
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HEIGHT
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29-Jun-2024
12:15
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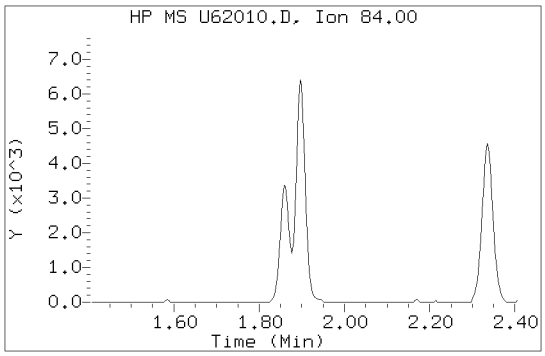
BEFORE

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84
AREA
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HEIGHT
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29-Jun-2024
12:15
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:15
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zaid

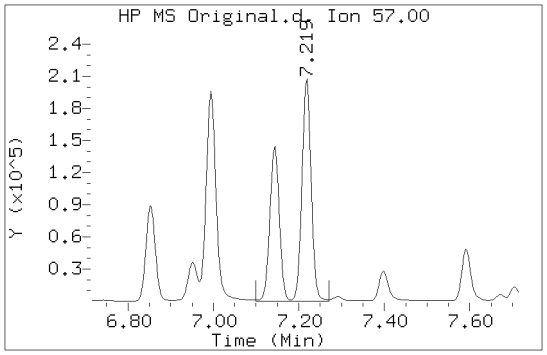


sec-Butyl Ether (6863-58-7)

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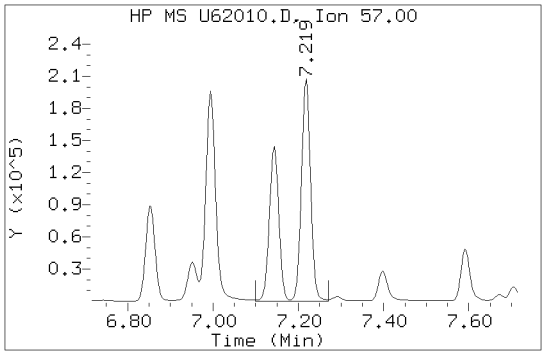
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AFTER

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29-Jun-2024
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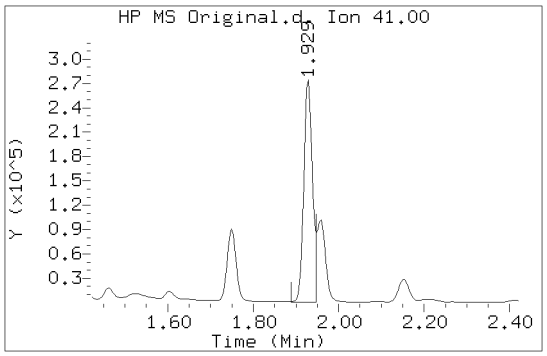


2-Chloropropene (557-98-2)

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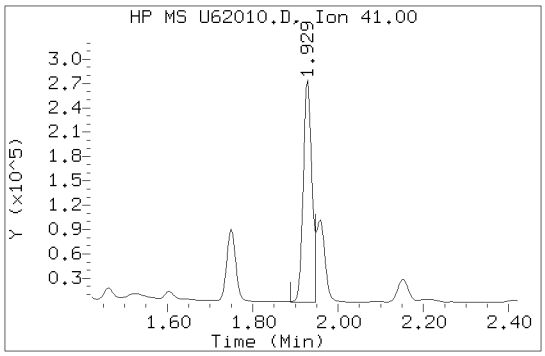
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AFTER

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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D Page 1
Report Date: 29-Jun-2024 12:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 20-JUN-2024 14:36
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240620.b\8260C.m
Meth Date : 29-Jun-2024 12:29 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:36 Cal File: U62011.D
Als bottle: 11 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	265522	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	397011	50.0000	209.36(A)
3	Chloromethane	50	1.291	1.291	(0.268)	722213	50.0000	199.45
4	Propionitrile	54	4.335	4.335	(0.901)	516743	500.000	2011.03(A)
5	Vinyl Chloride	62	1.374	1.374	(0.286)	475593	50.0000	201.64(A)
6	Bromomethane	94	1.602	1.602	(0.333)	186065	50.0000	199.96
7	Chloroethane	64	1.692	1.692	(0.352)	287756	50.0000	199.74
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	520606	50.0000	204.70(A)
9	Acrolein	56	2.258	2.258	(0.469)	36445	100.000	401.53(A)
10	Acetone	43	2.404	2.404	(0.500)	250030	100.000	389.13
11	1,1-Dichloroethene	96	2.326	2.326	(0.483)	289014	50.0000	186.58
12	Isobutyl Alcohol	43	5.283	5.283	(1.098)	1051743	1000.00	4012.41(A)
13	Acetonitrile	39	2.667	2.667	(0.554)	398444	500.000	1994.82
14	Allyl Chloride	41	2.667	2.667	(0.554)	929291	50.0000	201.39(A)
15	Iodomethane	142	2.461	2.461	(0.512)	377703	100.000	342.96
16	Acrylonitrile	53	3.060	3.060	(0.636)	262510	100.000	406.81(A)
17	Methylene Chloride	84	2.787	2.787	(0.579)	332519	50.0000	198.56
18	Methyl tert-butyl ether	73	3.075	3.075	(0.639)	938308	50.0000	204.17(A)
19	Carbon Disulfide	76	2.513	2.513	(0.522)	1701816	100.000	398.67
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	321804	50.0000	200.10(A)

21 Vinyl Acetate	43	4.335	4.335 (0.901)	370669	100.000	401.20(A)
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	606734	50.0000	199.81

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	525056	50.0000	200.11(A)
	24 2-Butanone	43	4.256	4.256	(0.885)	368971	100.000	400.45(A)
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	230621	50.0000	198.97(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	497369	50.0000	201.64(A)
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	381674	50.0000	199.86
	28 Chloroform	83	4.567	4.567	(0.949)	617716	50.0000	199.37
	29 Bromochloromethane	128	4.466	4.466	(0.928)	186385	50.0000	175.33
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	342479	50.0000	194.17
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	525362	50.0000	213.11(A)
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	481801	50.0000	206.69(AM)
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	485948	50.0000	199.43
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	439845	50.0000	225.12(AM)
$	35 1,2-Dichloroethane-d4	65	5.092	5.092	(1.058)	412883	50.0000	183.54
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	382123	50.0000	
	37 Benzene	78	5.137	5.137	(0.926)	1432681	50.0000	182.17
	38 Trichloroethene	130	5.786	5.786	(1.043)	372108	50.0000	194.97
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	470315	50.0000	211.59(A)
	40 Methyl Methacrylate	41	5.823	5.823	(1.210)	155212	50.0000	223.38(A)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	71631	100.000	(a)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	386076	50.0000	185.34
	43 2-Nitropropane	43	6.506	6.506	(1.352)	104236	50.0000	248.29(AM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	226978	50.0000	186.68
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	798331	100.000	409.56(A)
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	591195	50.0000	227.65(A)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	353689	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	1300358	50.0000	189.41
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	537937	50.0000	221.66
	50 Toluene	91	6.982	6.982	(0.853)	1516812	50.0000	188.35
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.297)	495274	50.0000	203.32(A)
	52 2-Hexanone	43	7.218	7.218	(0.882)	529191	100.000	406.81(A)
	53 1,1,2-Trichloroethane	83	7.356	7.356	(0.899)	277712	50.0000	178.34
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	605942	50.0000	185.15
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	375582	50.0000	231.17(A)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	300156	50.0000	199.15
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	338729	50.0000	197.06
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	297557	50.0000	204.49(A)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	967685	50.0000	199.97
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	353341	50.0000	204.23(A)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	508284	50.0000	203.94(A)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	1271908	100.000	427.46(A)
	63 o-Xylene	106	8.747	8.747	(1.069)	623283	50.0000	212.56(A)
	64 Styrene	104	8.762	8.762	(1.071)	1084513	50.0000	221.22(A)
	66 Bromoform	173	8.920	8.920	(1.090)	259431	50.0000	199.01
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1574813	50.0000	216.47(A)
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	472868	50.0000	201.78(A)
$	69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	489967	50.0000	181.64
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	190932	50.0000	
	71 1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	495644	50.0000	203.53(AM)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	99224	50.0000	200.76(A)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	1854754	50.0000	224.64(A)
	74 Bromobenzene	156	9.317	9.317	(0.916)	432960	50.0000	193.00
	75 1,3,5-Trimethylbenzene	105	9.564	9.564	(0.940)	1306821	50.0000	202.35(A)

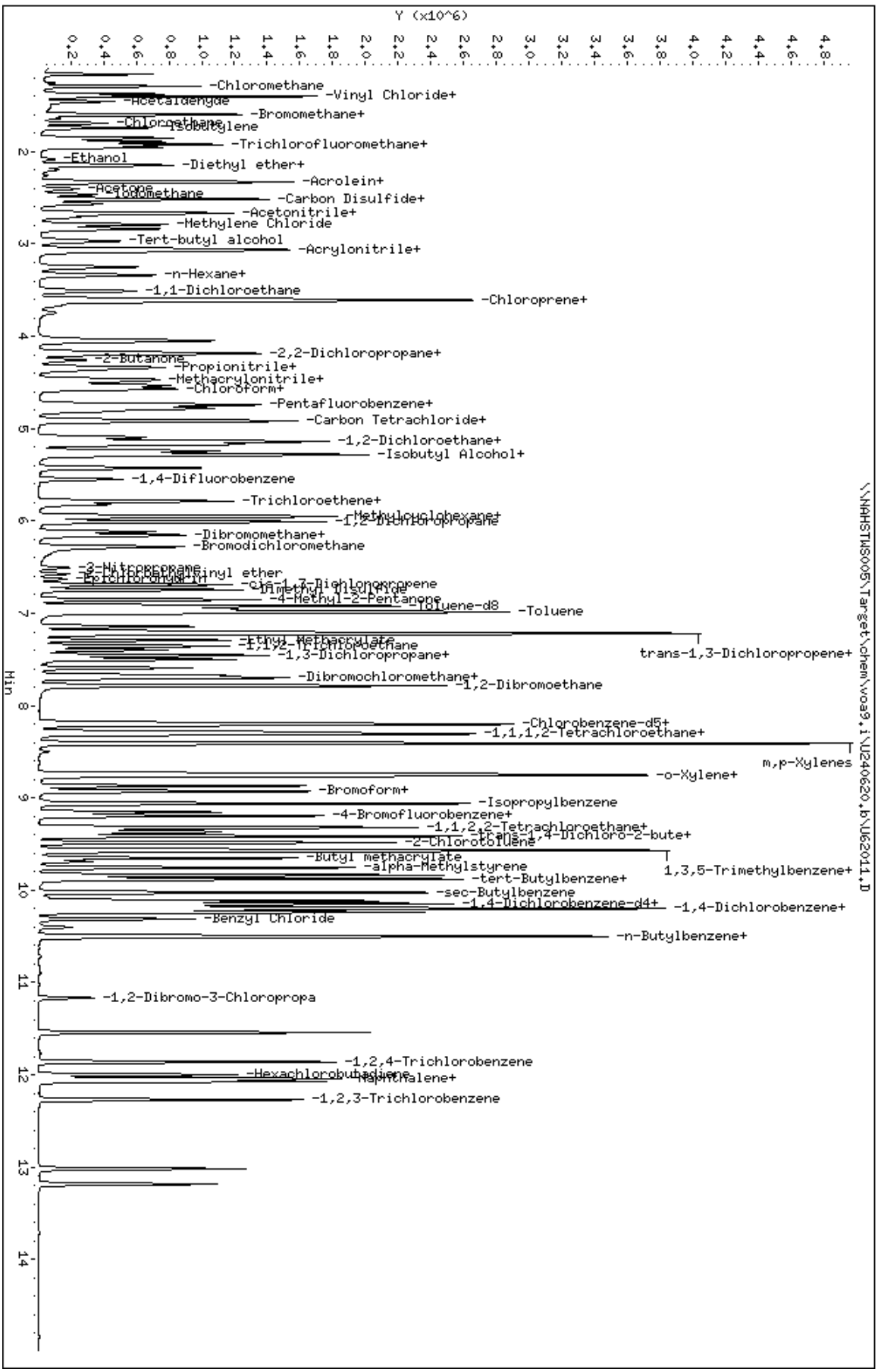
76	2-Chlorotoluene	91	9.482	9.482 (0.932)	1096591	50.0000	196.26
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	1284912	50.0000	202.62(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	1107572	50.0000	220.10(A)
79	1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	1293282	50.0000	212.85(AM)
81	sec-Butylbenzene	105	10.026	10.026	(0.986)	1501256	50.0000	224.01(A)
82	p-Isopropyltoluene	119	10.149	10.149	(0.998)	1343308	50.0000	202.81(A)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	765965	50.0000	185.57
84	1,4-Dichlorobenzene	146	10.190	10.190	(1.002)	786101	50.0000	200.77(A)
86	Benzyl Chloride	91	10.310	10.310	(1.260)	611338	50.0000	204.06(A)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	1186519	50.0000	202.49(A)
88	1,2-Dichlorobenzene	146	10.505	10.505	(1.033)	746049	50.0000	181.53
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	71040	50.0000	199.52
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	530312	50.0000	213.28(A)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	229632	50.0000	208.28(A)
92	Naphthalene	128	12.069	12.069	(1.186)	1208773	50.0000	202.17(A)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	477354	50.0000	209.67(A)
146	Methyl acetate	43	2.708	2.708	(0.563)	255797	50.0000	193.30
138	Freon TF	101	2.329	2.329	(0.484)	282375	50.0000	199.67
141	Cyclohexane	56	4.781	4.781	(0.994)	508774	50.0000	201.59(A)
142	Tetrahydrofuran	42	4.537	4.537	(0.943)	135317	100.000	430.31(A)
147	Methylcyclohexane	55	5.943	5.943	(1.071)	950834	50.0000	234.33(A)
135	1,4-Dioxane	88	6.164	6.164	(1.281)	87547	1000.00	4038.10(A)
132	n-Butanol	56	5.823	5.823	(1.210)	228205	1000.00	4002.40(A)
136	n-Hexane	57	3.338	3.338	(0.694)	360842	50.0000	211.94(A)
139	Diethyl ether	59	2.138	2.138	(0.445)	254790	50.0000	200.85(A)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	602022	1000.00	3998.62
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	469393	1000.00	4061.48(A)
156	Diisopropyl ether	45	3.615	3.615	(0.751)	1191529	50.0000	186.05
162	Butyl acrylate	55	8.732	8.732	(1.067)	766568	50.0000	235.45(A)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	1750976	50.0000	211.80(A)
166	1,2,3-Trimethylbenzene	105	10.235	10.235	(1.006)	1218639	50.0000	223.15(A)
167	Ethanol	45	2.082	2.082	(0.433)	87256	1000.00	3950.13
172	tert-Butyl formate	59	5.242	5.242	(1.090)	696379	100.000	259.47(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	2343873	1000.00	4447.69(A)
140	1,3-Butadiene	54	1.400	1.400	(0.291)	468459	50.0000	205.46(A)
182	Epichlorohydrin	57	6.629	6.629	(1.195)	84999	200.000	691.58
M 94	1,2-Dichloroethylene (total)	96				703478	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	520152	50.0000	199.29
130	Ethyl Acetate	43	4.534	4.534	(0.942)	122455	50.0000	201.91(A)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	436403	50.0000	198.32
189	n-Butyl acetate	43	7.705	7.705	(0.941)	601505	50.0000	213.30(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	422606	1000.00	4018.17(A)
185	Isoprene	39	2.150	2.150	(0.447)	72752	50.0000	188.71
188	Isopropyl acetate	43	5.283	5.283	(0.952)	1068675	50.0000	209.14(A)
150	Allyl alcohol	57	3.338	3.338	(0.694)	360842	1000.00	4238.91(A)
194	Acetaldehyde	44	1.456	1.456	(0.303)	348283	200.000	784.67(M)
202	Isobutylene	41	1.741	1.741	(0.362)	182427	50.0000	201.96(AM)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	950834	50.0000	227.65(A)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	390507	50.0000	203.62(A)
159	Propylene oxide	43	2.195	2.195	(0.456)	49793	100.000	410.48(A)
178	Ethylene oxide	44	1.595	1.595	(0.332)	810765	100.000	411.30(A)
203	2-Ethylhexyl Acrylate	55	12.042	12.042	(1.184)	565939	50.0000	195.66
204	Tetrahydrothiophene	60	7.671	7.671	(0.937)	411483	50.0000	204.72(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	791396	50.0000	200.26(AM)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	642970	50.0000	205.48(A)
206 2-Chloropropene	41	1.921	1.921 (0.399)	569361	50.0000	208.87(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240620,b\U62011,D
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Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

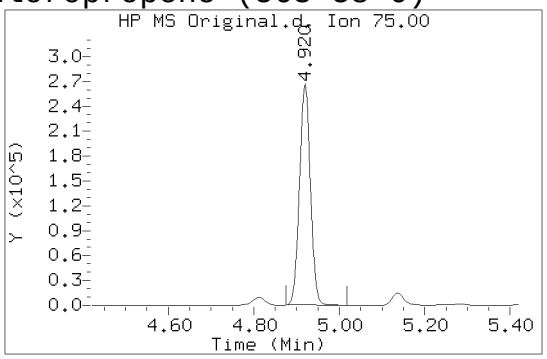
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Inj Date : 20-JUN-2024 14:36
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LabSampID : VSTD200

1,1-Dichloropropene (563-58-6)

Reason Code:

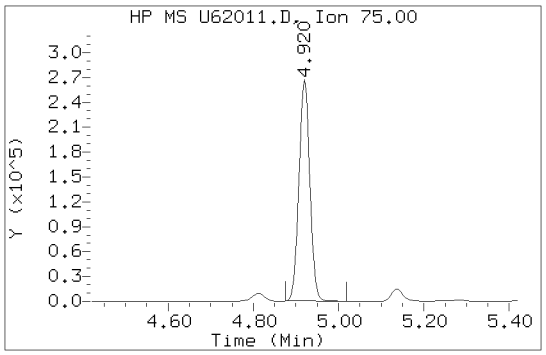
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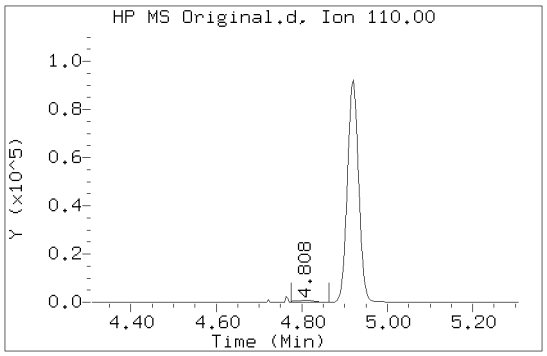
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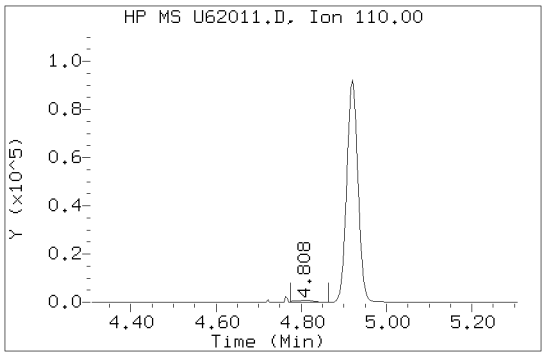
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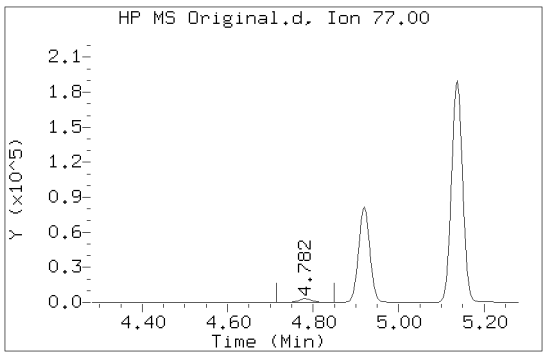
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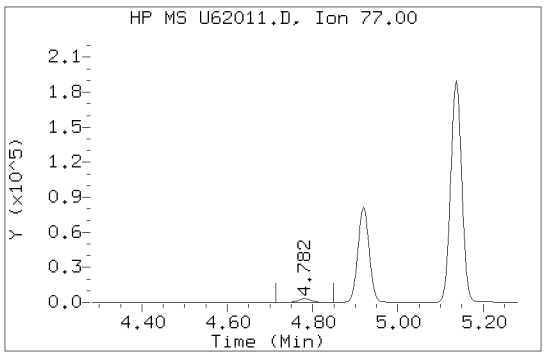
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AFTER

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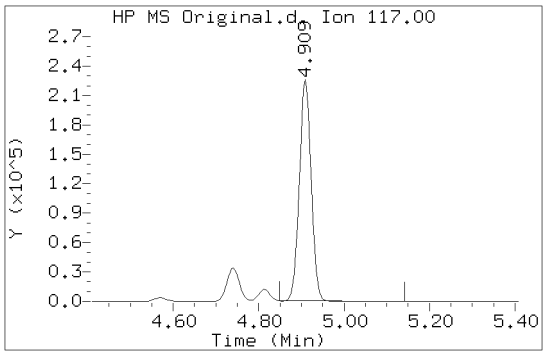


Carbon Tetrachloride (56-23-5)

Reason Code:

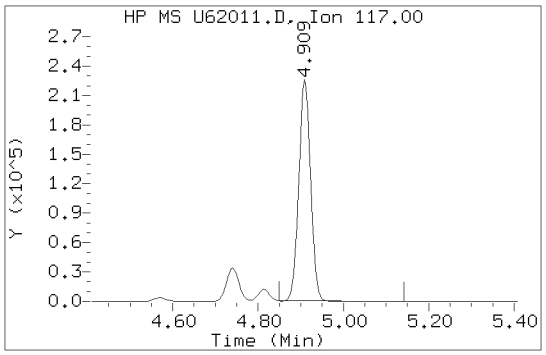
BEFORE

MASS
117
AREA
439845
HEIGHT
225788
29-Jun-2024
12:18
s
zaid



AFTER

MASS
117
AREA
439845
HEIGHT
225788
29-Jun-2024
12:29
s
zaid



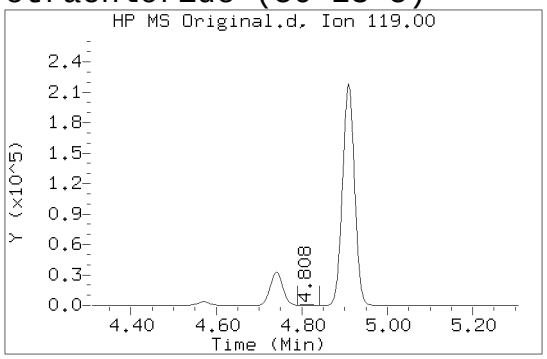
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Inj Date : 20-JUN-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD200

Carbon Tetrachloride (56-23-5)

Reason Code:

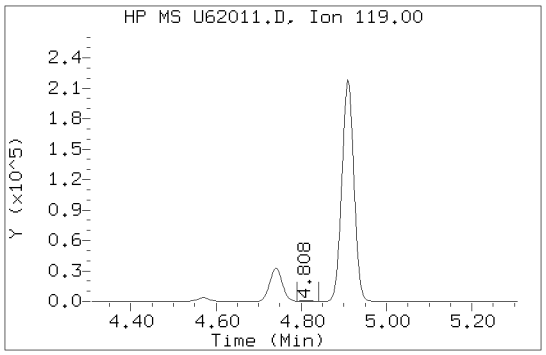
BEFORE

MASS
119
AREA
1205
HEIGHT
581
29-Jun-2024
12:18
s
zaid



AFTER

MASS
119
AREA
1205
HEIGHT
581
29-Jun-2024
12:29
s
zaid

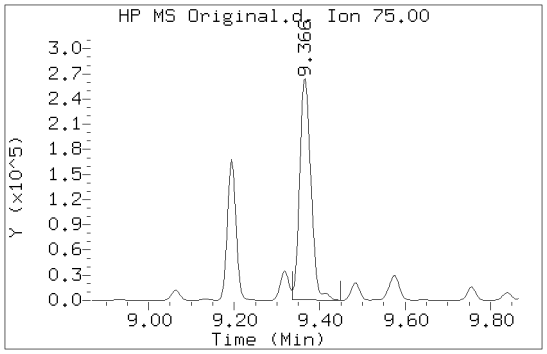


1,2,3-Trichloropropane (96-18-4)

Reason Code:

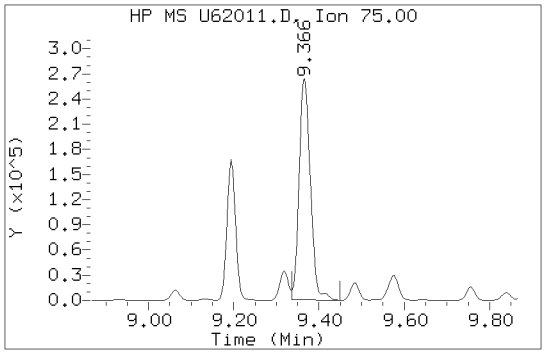
BEFORE

MASS
75
AREA
495644
HEIGHT
263913
29-Jun-2024
12:18
s
zaid



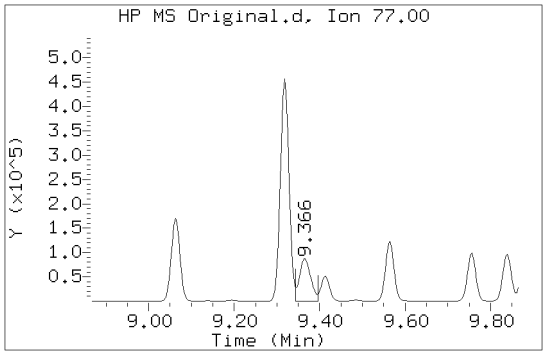
AFTER

MASS
75
AREA
495644
HEIGHT
263913
29-Jun-2024
12:29
s
zaid



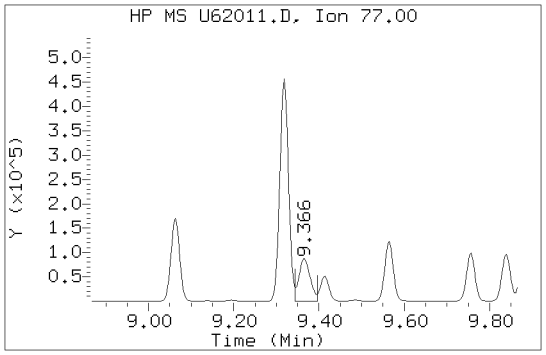
BEFORE

MASS
77
AREA
166566
HEIGHT
87223
29-Jun-2024
12:18
s
zaid



AFTER

MASS
77
AREA
166566
HEIGHT
87223
29-Jun-2024
12:29
s
zaid

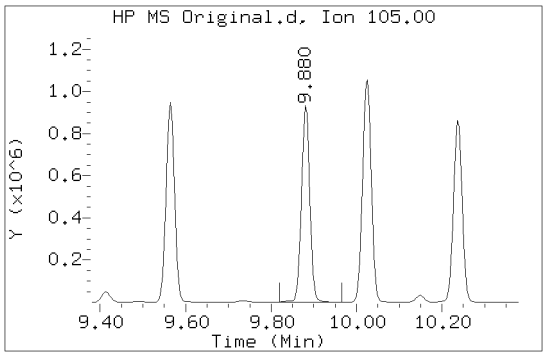


1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

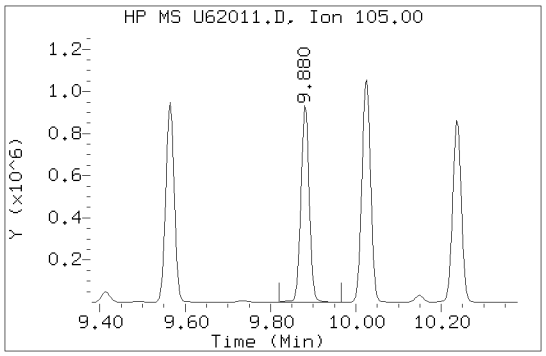
BEFORE

MASS
105
AREA
1293282
HEIGHT
933276
29-Jun-2024
12:18
s
zaid



AFTER

MASS
105
AREA
1293282
HEIGHT
933276
29-Jun-2024
12:29
s
zaid



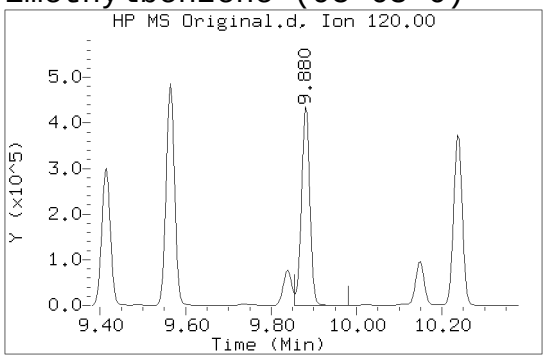
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D
Inj Date : 20-JUN-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD200

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

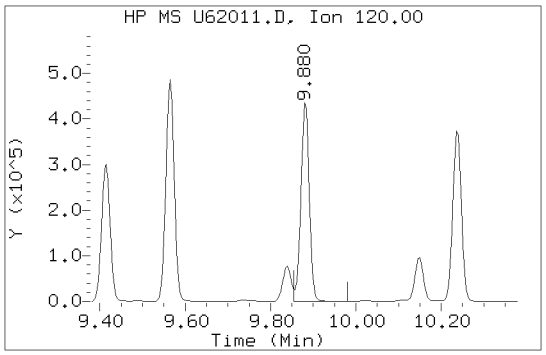
BEFORE

MASS
120
AREA
610486
HEIGHT
435520
29-Jun-2024
12:18
s
zaid



AFTER

MASS
120
AREA
610486
HEIGHT
435520
29-Jun-2024
12:29
s
zaid

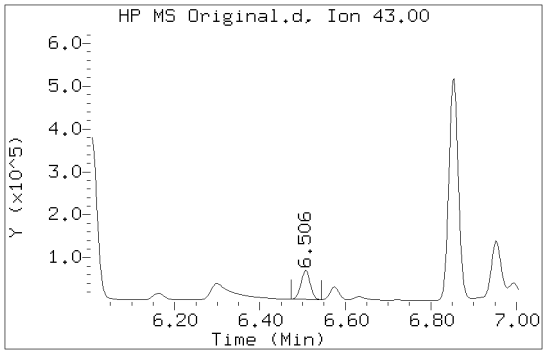


2-Nitropropane (79-46-9)

Reason Code:

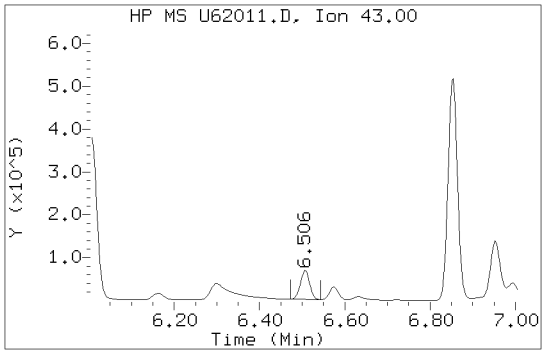
BEFORE

MASS
43
AREA
104236
HEIGHT
67911
29-Jun-2024
12:18
s
zaid



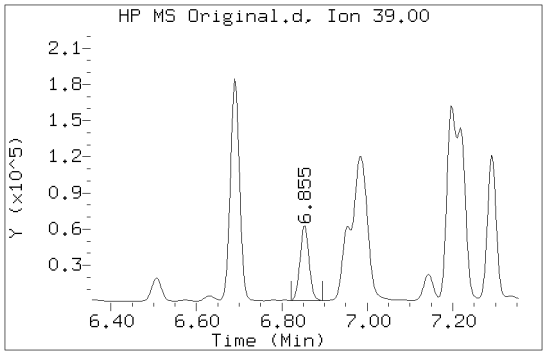
AFTER

MASS
43
AREA
104236
HEIGHT
67911
29-Jun-2024
12:29
s
zaid



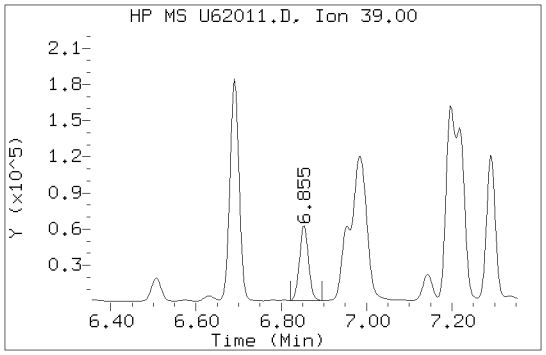
BEFORE

MASS
39
AREA
93511
HEIGHT
62117
29-Jun-2024
12:18
s
zaid



AFTER

MASS
39
AREA
93511
HEIGHT
62117
29-Jun-2024
12:29
s
zaid

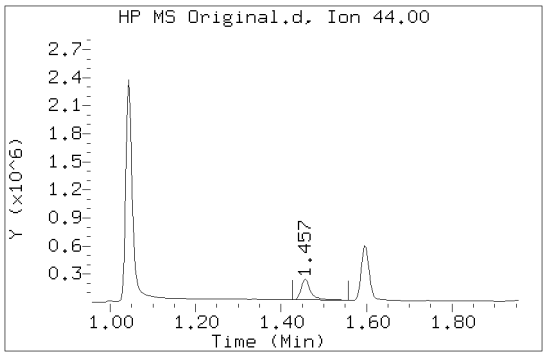


Acetaldehyde (75-07-0)

Reason Code:

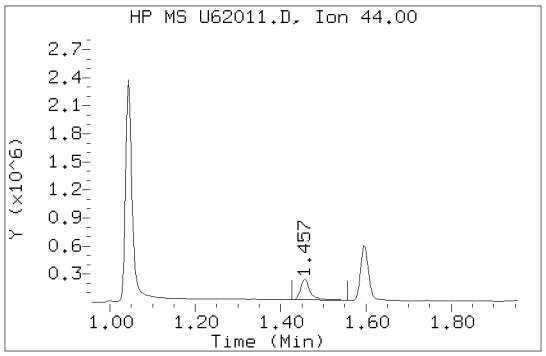
BEFORE

MASS
44
AREA
348283
HEIGHT
224477
29-Jun-2024
12:18
s
zaid



AFTER

MASS
44
AREA
348283
HEIGHT
224477
29-Jun-2024
12:29
s
zaid



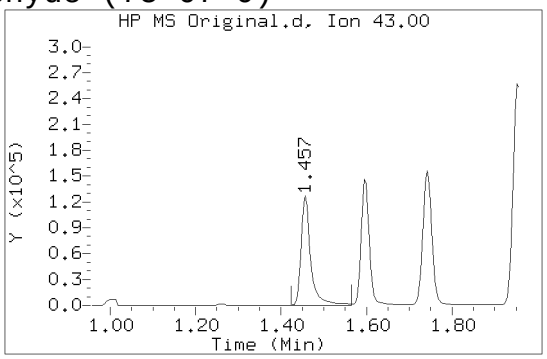
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D
Inj Date : 20-JUN-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

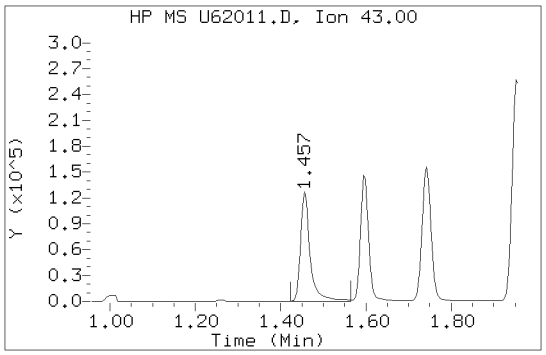
BEFORE

MASS
43
AREA
202763
HEIGHT
127216
29-Jun-2024
12:18
s
zaid



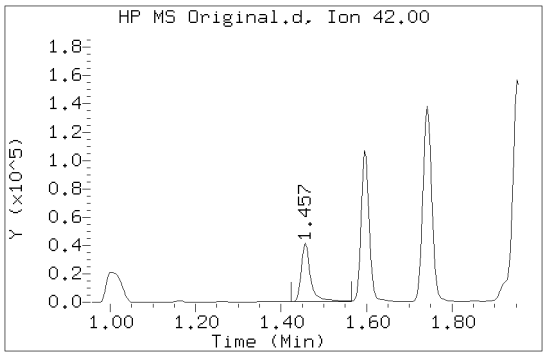
AFTER

MASS
43
AREA
202763
HEIGHT
127216
29-Jun-2024
12:29
s
zaid



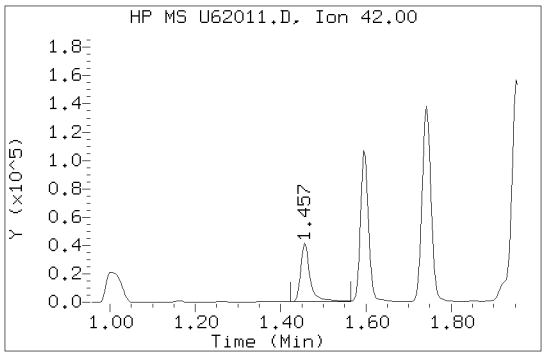
BEFORE

MASS
42
AREA
63383
HEIGHT
41151
29-Jun-2024
12:18
s
zaid



AFTER

MASS
42
AREA
63383
HEIGHT
41151
29-Jun-2024
12:29
s
zaid

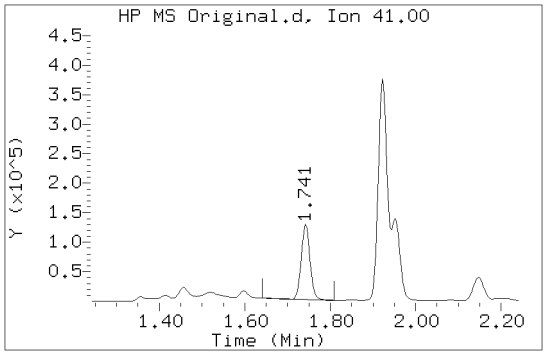


Isobutylene (115-11-7)

Reason Code:

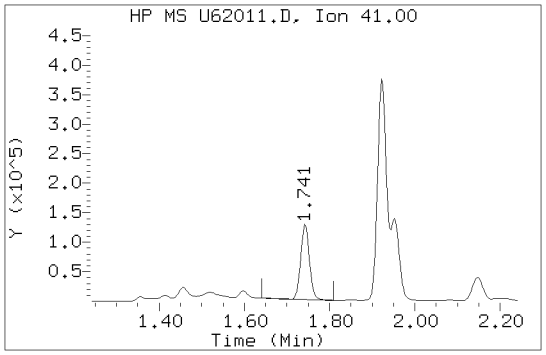
BEFORE

MASS
41
AREA
182427
HEIGHT
127303
29-Jun-2024
12:18
s
zaid



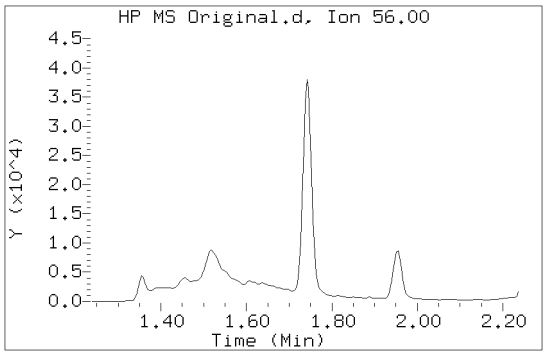
AFTER

MASS
41
AREA
182427
HEIGHT
127303
29-Jun-2024
12:29
s
zaid



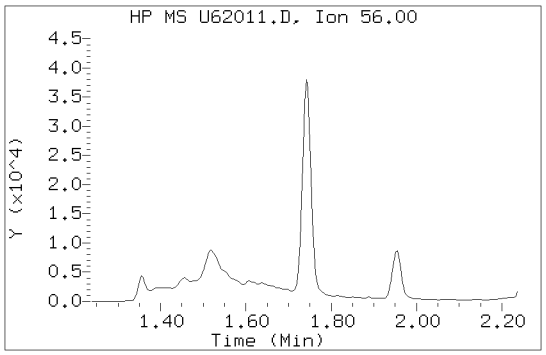
BEFORE

MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:18
s
zaid



AFTER

MASS
56
AREA
0
HEIGHT
0
29-Jun-2024
12:29
s
zaid



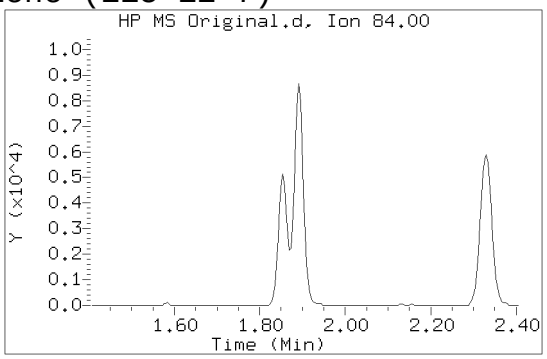
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62011.D
Inj Date : 20-JUN-2024 14:36
InstruID : VOA9.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

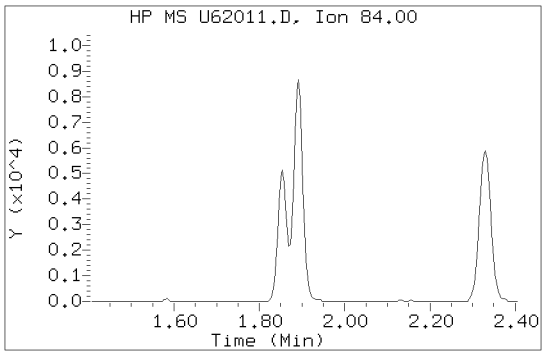
BEFORE

MASS
84
AREA
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HEIGHT
0
29-Jun-2024
12:18
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
29-Jun-2024
12:29
s
zaid

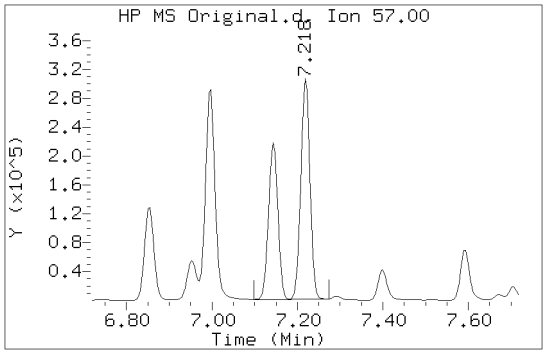


sec-Butyl Ether (6863-58-7)

Reason Code:

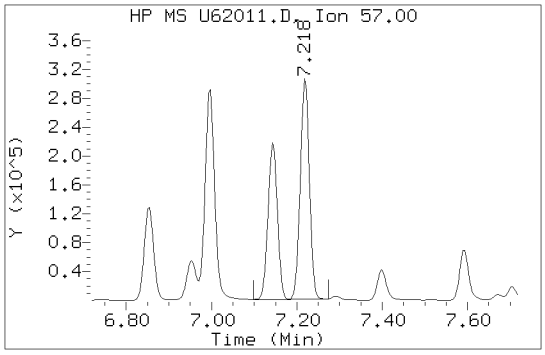
BEFORE

MASS
57
AREA
791396
HEIGHT
305033
29-Jun-2024
12:18
s
zaid



AFTER

MASS
57
AREA
791396
HEIGHT
305033
29-Jun-2024
12:29
s
zaid

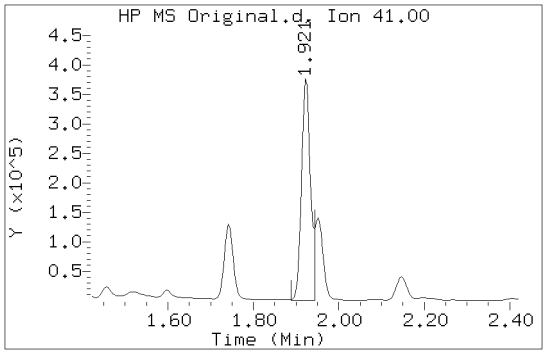


2-Chloropropene (557-98-2)

Reason Code:

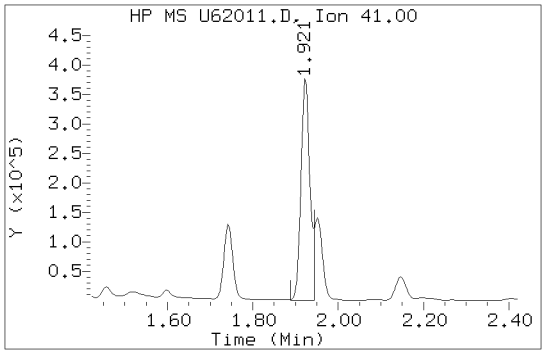
BEFORE

MASS
41
AREA
569361
HEIGHT
375608
29-Jun-2024
12:18
s
zaid



AFTER

MASS
41
AREA
569361
HEIGHT
375608
29-Jun-2024
12:29
s
zaid



Data File: \\nahstws005\Target\chem\voa9.i\U240620.b\U62013.D Page 1
Report Date: 21-Jun-2024 17:18

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240620.b\U62013.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-JUN-2024 15:19
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240620.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 13 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.193	9.180	(0.000)	95	63128			0.00- 100.00	100.00
9.193	9.180	(0.000)	50	12493			15.00- 40.00	19.79
9.193	9.180	(0.000)	75	30992			30.00- 60.00	49.09
9.193	9.180	(0.000)	96	4476			5.00- 9.00	7.09
9.193	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.193	9.180	(0.000)	174	51952			50.00- 0.00	82.30
9.193	9.180	(0.000)	175	4648			5.00- 9.00	8.95
9.193	9.180	(0.000)	176	51216			95.00- 101.00	98.58
9.193	9.180	(0.000)	177	3638			5.00- 9.00	7.10

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62014.D Page 1
Report Date: 09-Jul-2024 09:59

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240620.b\U62014.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 20-JUN-2024 15:40
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240620.b\8260C.m
Meth Date : 09-Jul-2024 09:58 r.patel Quant Type: ISTD
Cal Date : 20-JUN-2024 11:23 Cal File: U62002.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	261467	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.037	(0.242)	89254	47.7978	47.79
3 Chloromethane	50	1.295	1.299	(0.269)	178137	43.2675	43.26
4 Propionitrile	54	4.335	4.335	(0.900)	116063	480.383	480.38
5 Vinyl Chloride	62	1.378	1.007	(0.286)	106724	46.0497	46.04
6 Bromomethane	94	1.618	1.621	(0.336)	48194	55.8053	55.80
7 Chloroethane	64	1.700	1.692	(0.353)	68283	46.6689	46.66
8 Trichlorofluoromethane	101	1.895	1.891	(0.394)	116562	46.5447	46.54
9 Acrolein	56	2.262	2.258	(0.470)	8126	100.726	100.72
10 Acetone	43	2.405	2.404	(0.499)	64078	95.4981	95.49
11 1,1-Dichloroethene	96	2.330	2.326	(0.484)	66469	43.5769	43.57
12 Isobutyl Alcohol	43	5.284	5.288	(1.097)	238029	922.168	922.16
13 Acetonitrile	39	2.667	2.667	(0.554)	89295	445.923	445.92
14 Allyl Chloride	41	2.671	2.671	(0.555)	209796	44.4363	44.43
15 Iodomethane	142	2.465	2.465	(0.512)	72500	118.830	118.82
16 Acrylonitrile	53	3.065	3.060	(0.636)	56583	88.6490	88.64
17 Methylene Chloride	84	2.791	2.791	(0.580)	83599	45.4003	45.40
18 Methyl tert-butyl ether	73	3.080	3.075	(0.640)	205219	45.6735	45.67
19 Carbon Disulfide	76	2.517	2.513	(0.523)	387301	92.1377	92.13
20 trans-1,2-Dichloroethene	96	3.057	3.053	(0.635)	74817	46.8329	46.83

21 Vinyl Acetate	43	4.335	4.335 (0.900)	87541	95.9801	95.98
22 1,1-Dichloroethane	63	3.511	3.507 (0.729)	127549	42.0314	42.03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.608	3.604	(0.749)	117530	45.2938	45.29
	24 2-Butanone	43	4.260	4.256	(0.885)	85973	94.8680	94.86
	25 Methacrylonitrile	41	4.493	4.489	(0.933)	54941	48.0543	48.05(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	106826	44.4202	44.42
	27 cis-1,2-Dichloroethene	96	4.193	4.189	(0.871)	91944	48.6382	48.63
	28 Chloroform	83	4.572	4.572	(0.949)	149488	48.3308	48.33
	29 Bromochloromethane	128	4.467	4.466	(0.928)	45353	43.3270	43.32
$	30 Dibromofluoromethane	113	4.744	4.748	(0.985)	82332	47.4047	47.40
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	119079	49.0535	49.05
	32 1,1-Dichloropropene	75	4.920	4.812	(0.887)	110224	48.2316	48.23
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	118273	48.6502	48.65
	34 Carbon Tetrachloride	117	4.909	4.815	(0.885)	94380	49.2736	49.27
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	100440	45.3415	45.34
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	374629	50.0000	
	37 Benzene	78	5.138	5.141	(0.926)	342905	44.4748	44.47
	38 Trichloroethene	130	5.786	5.786	(1.043)	86889	46.4381	46.43
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	104604	48.0026	48.00
	40 Methyl Methacrylate	41	5.820	5.823	(1.209)	30364	44.3775	44.37
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	6333	117.723	117.72(M)
	42 1,2-Dichloropropane	63	6.007	6.004	(1.082)	91658	44.8824	44.88
	43 2-Nitropropane	43	6.506	6.506	(1.351)	21476	51.9496	51.94
	44 Dibromomethane	93	6.116	6.116	(1.102)	53995	45.2970	45.29
	45 4-Methyl-2-Pentanone	43	6.851	6.854	(0.837)	172612	92.0975	92.09
	46 cis-1,3-Dichloropropene	75	6.690	6.689	(1.205)	126870	49.8311	49.83
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	340082	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	312479	47.3386	47.33
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	111414	46.8284	46.82
	50 Toluene	91	6.978	6.982	(0.853)	360628	46.5733	46.57
	51 trans-1,3-Dichloropropene	75	7.196	7.195	(1.296)	105437	45.8820	45.88
	52 2-Hexanone	43	7.214	7.218	(0.881)	115864	91.9567	91.95
	53 1,1,2-Trichloroethane	83	7.353	7.356	(0.898)	67802	45.2836	45.28
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	144168	45.8147	45.81
	55 Dibromochloromethane	129	7.690	7.694	(0.940)	82303	52.6856	52.68
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	68080	46.9781	46.97
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	78189	47.3082	47.30
	58 1-Chlorohexane	55	8.197	8.185	(1.477)	63799	44.1476	44.14
	59 Chlorobenzene	112	8.208	8.211	(1.003)	229265	48.6838	48.68
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.282	(1.012)	78588	47.2418	47.24
	61 Ethylbenzene	106	8.305	8.309	(1.015)	116912	48.7876	48.78
	62 m,p-Xylenes	106	8.410	8.407	(1.027)	291148	101.764	101.76
	63 o-Xylene	106	8.748	8.748	(1.069)	143049	50.7378	50.73
	64 Styrene	104	8.763	8.763	(1.071)	244478	51.8656	51.86
	66 Bromoform	173	8.916	8.920	(1.089)	50606	47.7734	47.77
	67 Isopropylbenzene	105	9.063	9.062	(1.107)	357875	51.1626	51.16
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.328	(0.917)	110688	48.3145	48.31
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	117200	45.1887	45.18
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	185702	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	110149	47.1408	47.14
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	21710	45.6843	45.68
	73 n-Propylbenzene	91	9.411	9.415	(0.925)	417929	52.0446	52.04
	74 Bromobenzene	156	9.317	9.317	(0.916)	100586	46.1027	46.10
	75 1,3,5-Trimethylbenzene	105	9.561	9.564	(0.940)	290948	47.6256	47.62

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	251992	46.3702	46.37
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	297691	48.2675	48.26

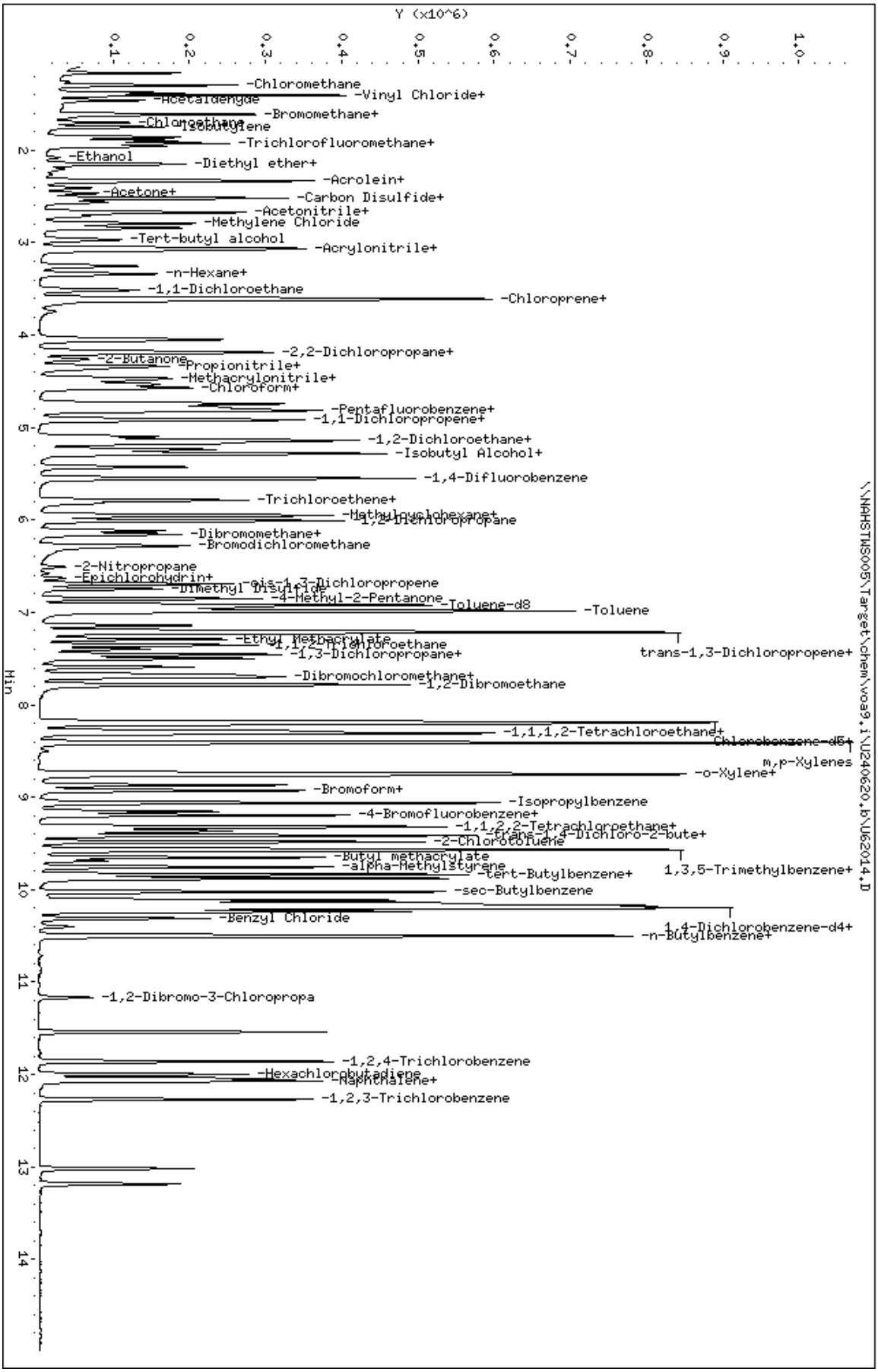
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.839	(0.967)	254799	52.0611	52.06
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	279039	47.2201	47.22
81	sec-Butylbenzene	105	10.022	10.026	(0.985)	334389	51.3021	51.30
82	p-Isopropyltoluene	119	10.146	10.149	(0.997)	293463	46.8335	46.83
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	179535	44.7210	44.72
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	186962	48.6202	48.62
86	Benzyl Chloride	91	10.311	10.315	(1.260)	144421	46.0411	46.04
87	n-Butylbenzene	91	10.495	10.494	(1.032)	255103	45.8227	45.82
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	177510	44.4097	44.40
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.162	(1.098)	14389	50.1899	50.18
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	115544	47.7799	47.77
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	49383	46.0548	46.05
92	Naphthalene	128	12.069	12.076	(1.186)	256651	45.6680	45.66
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	105818	47.7895	47.78
146	Methyl acetate	43	2.712	2.708	(0.563)	62456	45.9808	45.98
138	Freon TF	101	2.334	2.329	(0.485)	63520	45.2055	45.20
141	Cyclohexane	56	4.782	4.812	(0.993)	116914	46.3044	46.30
142	Tetrahydrofuran	42	4.538	4.537	(0.942)	30184	97.4748	97.47
147	Methylcyclohexane	55	5.944	5.947	(1.071)	197320	49.6025	49.60
135	1,4-Dioxane	88	6.165	6.169	(1.280)	18480	936.200	936.20
132	n-Butanol	56	5.820	5.823	(1.209)	42522	896.063	896.06
136	n-Hexane	57	3.338	3.338	(0.693)	74893	44.6717	44.67
139	Diethyl ether	59	2.142	2.138	(0.445)	59031	46.5003	46.50
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	127517	850.225	850.22
149	Isopropyl alcohol	45	2.562	2.559	(0.532)	98502	853.455	853.45
156	Diisopropyl ether	45	3.619	3.615	(0.752)	270238	42.8506	42.85
162	Butyl acrylate	55	8.733	8.740	(1.067)	148080	47.3028	47.30
164	Dicyclopentadiene	66	10.202	10.198	(1.003)	378845	47.1183	47.11
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	259997	48.9520	48.95
167	Ethanol	45	2.079	2.082	(0.432)	18614	837.297	837.29
172	tert-Butyl formate	59	5.239	5.242	(1.088)	141997	108.444	108.44
151	4-Methyl-2-pentanol	45	7.214	7.218	(1.300)	467941	905.719	905.71
140	1,3-Butadiene	54	1.404	1.400	(0.292)	106198	47.3004	47.30
182	Epichlorohydrin	57	6.630	6.629	(1.195)	13359	203.624	203.62
M 94	1,2-Dichloroethylene (total)	96				166761	95.6283	95.62
M 95	Xylenes (total)	106				434197	152.548	152.54
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	104376	48.7601	48.76
130	Ethyl Acetate	43	4.530	4.534	(0.941)	29264	47.3877	47.38(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	96077	44.3387	44.33
189	n-Butyl acetate	43	7.705	7.705	(0.941)	132331	48.8044	48.80
134	Cyclohexanone	55	9.152	9.156	(0.900)	90319	944.232	944.23
185	Isoprene	39	2.154	2.150	(0.447)	17152	45.1807	45.18
188	Isopropyl acetate	43	5.284	5.283	(0.952)	238252	47.5600	47.55
150	Allyl alcohol	57	3.338	3.338	(0.693)	74893	893.433	893.43
194	Acetaldehyde	44	1.460	1.456	(0.303)	77229	176.694	176.69(M)
200	Dimethyl Disulfide	94	6.746	6.745	(0.824)	67097	52.4852	52.48
202	Isobutylene	41	1.749	1.741	(0.363)	39900	45.8789	45.87(M)
133	Ethyl Acrylate	55	5.944	5.943	(1.234)	197320	47.9755	47.97
163	Butyl methacrylate	41	9.647	9.651	(0.948)	98704	52.4662	52.46
159	Propylene oxide	43	2.199	2.195	(0.457)	12407	103.867	103.86
178	Ethylene oxide	44	1.606	1.595	(0.334)	187952	96.8283	96.82(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.046	(1.184)	94278	46.9683	46.96

204	Tetrahydrothiophene	60	7.672	7.672 (0.937)	93801	48.5360	48.53(A)
205	sec-Butyl Ether	57	7.214	7.214 (0.881)	165631	43.5894	43.58(AM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
187 n-Amyl acetate	43	8.931	8.931	(1.091)	140560	46.7195	46.71
206 2-Chloropropene	41	1.925	1.925	(0.400)	114526	42.6672	42.66(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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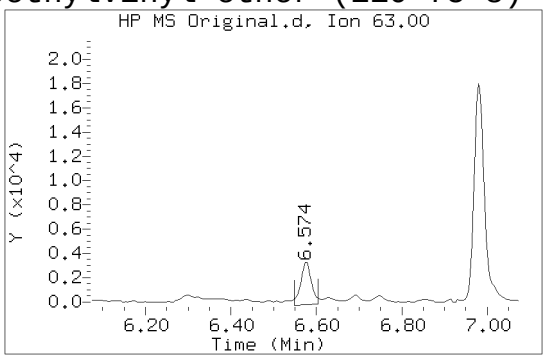
Instrument: VOA9,i
Operator: TS
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LabSampID : VSTD050

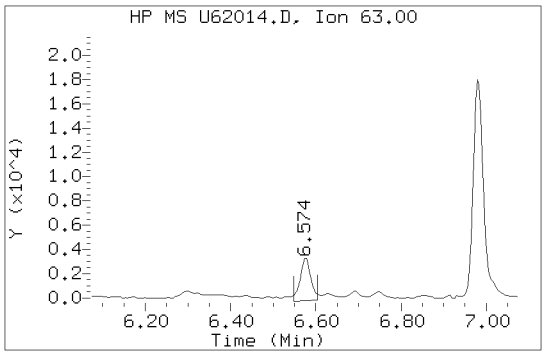
2-Chloroethylvinyl ether (110-75-8)

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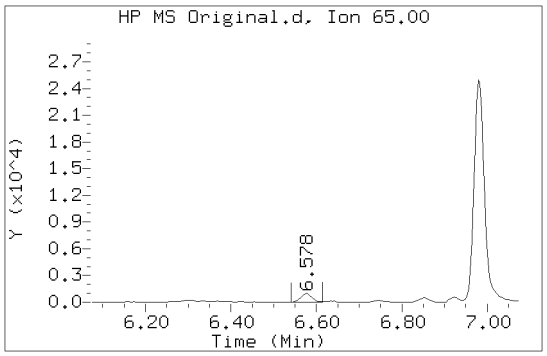
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29-Jun-2024
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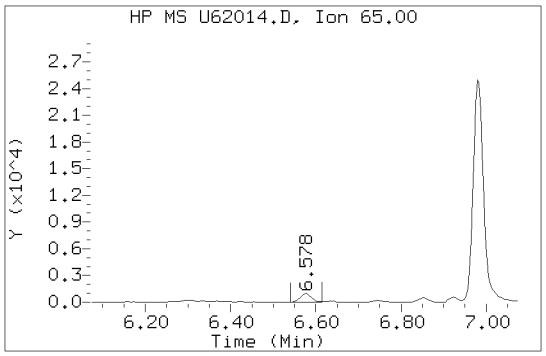
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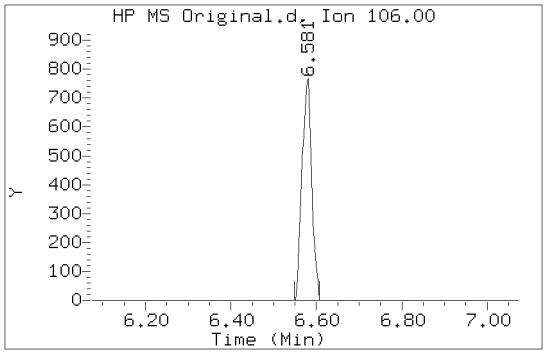
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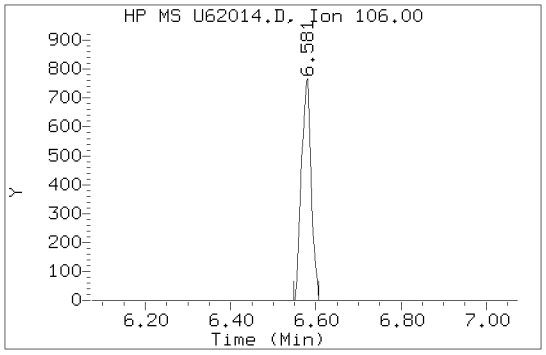
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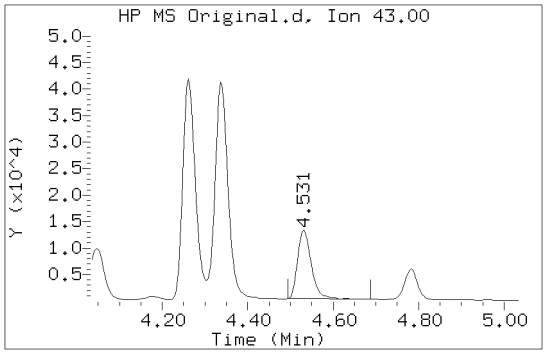
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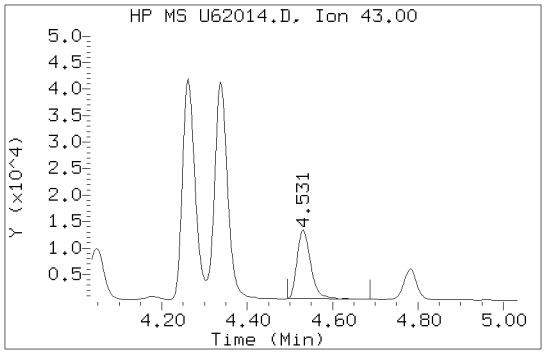
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Reason Code:

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AFTER
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09-Jul-2024
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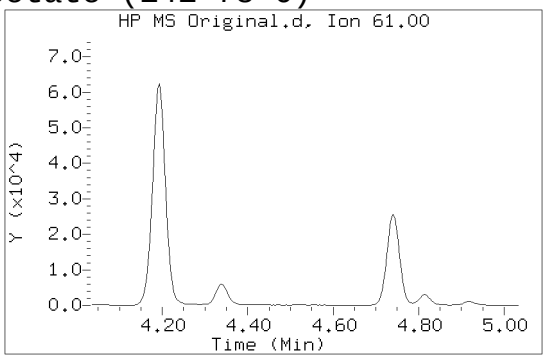


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LabSampID : VSTD050

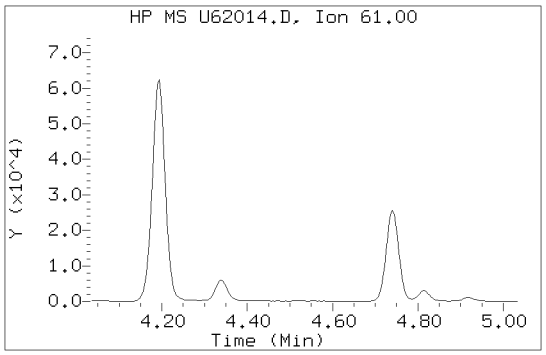
Ethyl Acetate (141-78-6)

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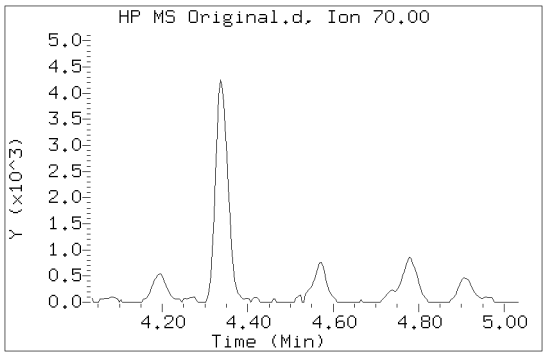
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29-Jun-2024
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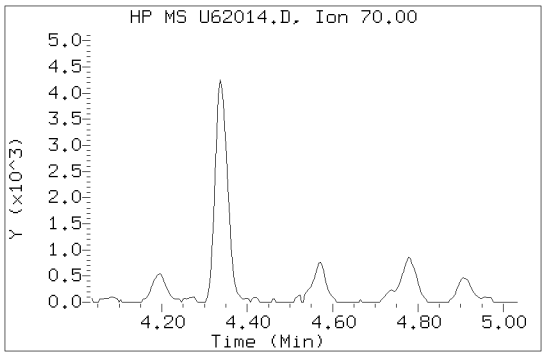
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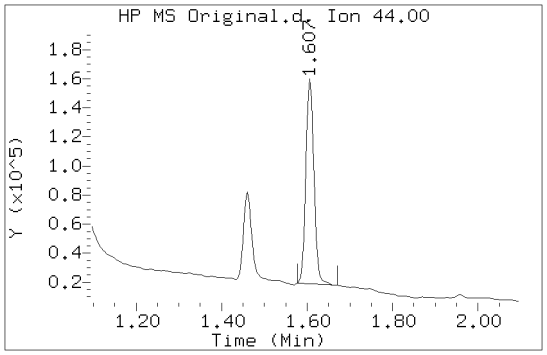
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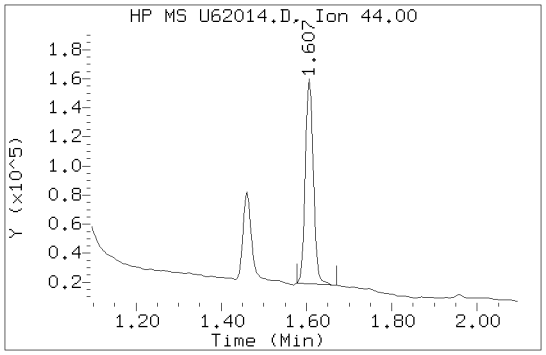
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Reason Code:

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29-Jun-2024
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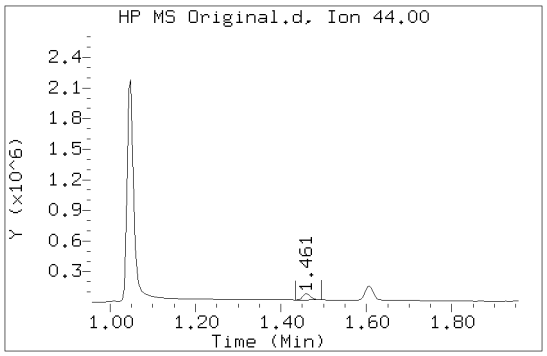
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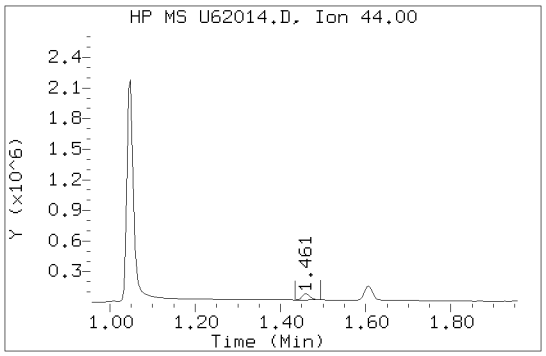
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Reason Code:

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AFTER
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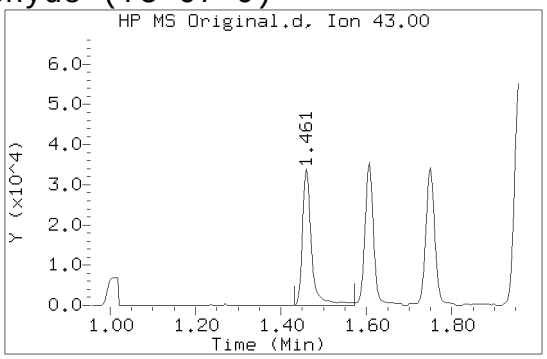


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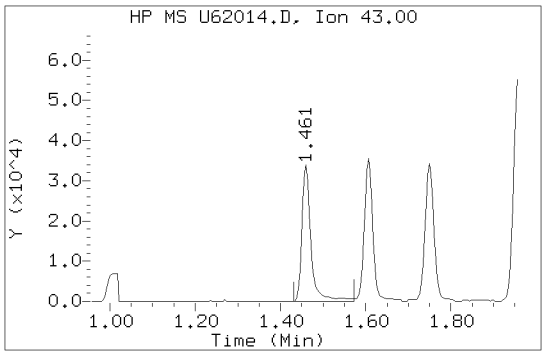
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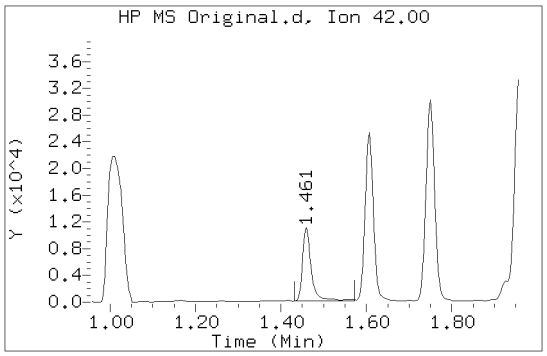
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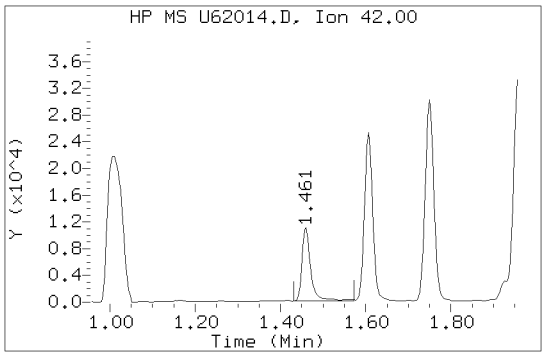
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BEFORE
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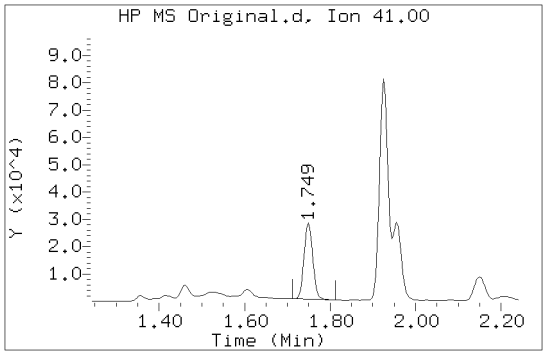
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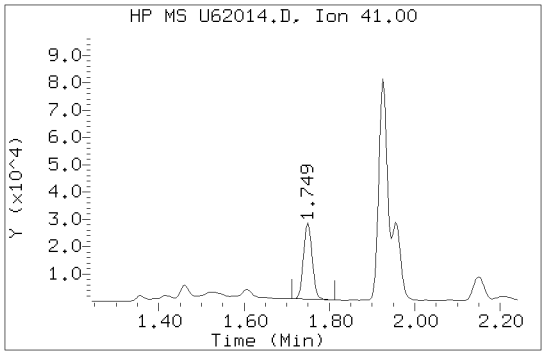
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Reason Code:

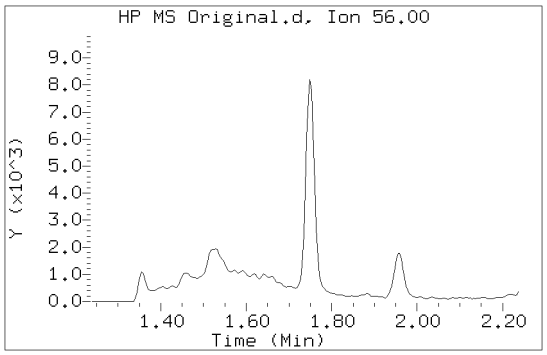
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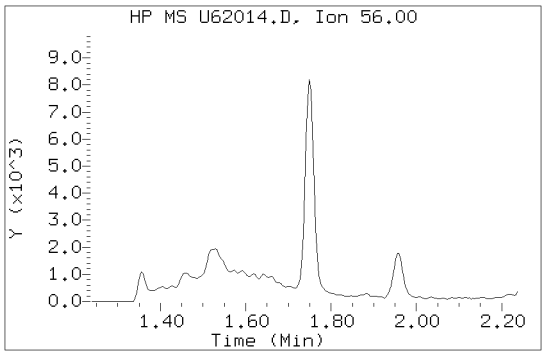
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BEFORE
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AFTER
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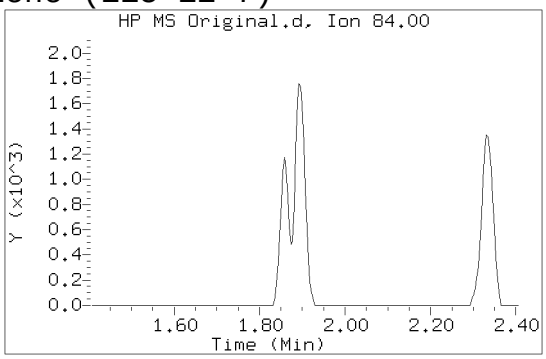
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LabSampID : VSTD050

Isobutylene (115-11-7)

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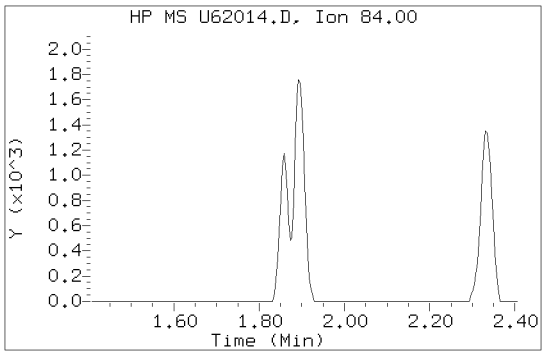
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AFTER

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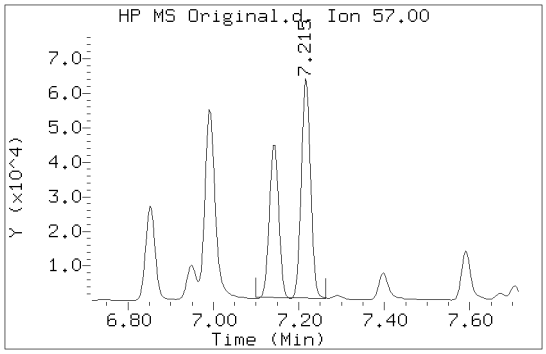


sec-Butyl Ether (6863-58-7)

Reason Code:

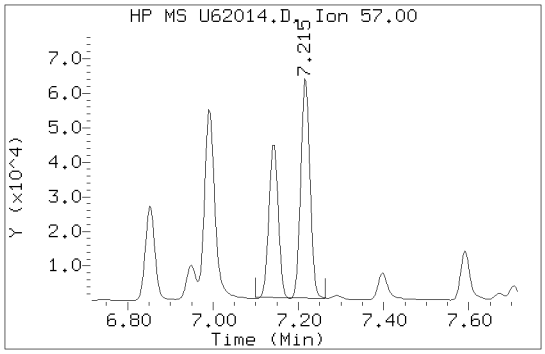
BEFORE

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s
zaid



AFTER

MASS
57
AREA
165631
HEIGHT
63475
09-Jul-2024
09:59



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060781

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/10/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240624.b\U62401.D Page 1
Report Date: 25-Jun-2024 11:02

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240624.b\U62401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-JUN-2024 10:43
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240624.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	80144			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	15018			15.00- 40.00	18.74
9.194	9.180	(0.000)	75	38736			30.00- 60.00	48.33
9.194	9.180	(0.000)	96	5448			5.00- 9.00	6.80
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	73728			50.00- 0.00	91.99
9.194	9.180	(0.000)	175	6539			5.00- 9.00	8.87
9.194	9.180	(0.000)	176	70200			95.00- 101.00	95.21
9.194	9.180	(0.000)	177	4767			5.00- 9.00	6.79

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62402.D Page 1
Report Date: 29-Jun-2024 12:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62402.D
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Inj Date : 24-JUN-2024 11:05
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240624.b\8260C.m
Meth Date : 29-Jun-2024 12:38 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	239809	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	74177	50.0000	43.31
3	Chloromethane	50	1.299	1.299	(0.270)	158407	50.0000	41.84
4	Propionitrile	54	4.332	4.332	(0.900)	103545	500.000	467.30
5	Vinyl Chloride	62	1.382	1.382	(0.287)	91618	50.0000	43.11
6	Bromomethane	94	1.610	1.610	(0.334)	39941	50.0000	50.35
7	Chloroethane	64	1.700	1.700	(0.353)	56600	50.0000	42.08
8	Trichlorofluoromethane	101	1.895	1.895	(0.394)	111159	50.0000	48.39
9	Acrolein	56	2.266	2.266	(0.471)	6023	100.000	80.73(M)
10	Acetone	43	2.409	2.409	(0.500)	53493	100.000	86.22
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	61097	50.0000	43.67
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	199883	1000.00	844.32
13	Acetonitrile	39	2.671	2.671	(0.555)	84029	500.000	457.79
14	Allyl Chloride	41	2.671	2.671	(0.555)	194281	50.0000	44.87
15	Iodomethane	142	2.469	2.469	(0.513)	54572	100.000	99.43
16	Acrylonitrile	53	3.065	3.065	(0.636)	52175	100.000	89.12
17	Methylene Chloride	84	2.795	2.795	(0.580)	75843	50.0000	44.87
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	187873	50.0000	45.58
19	Carbon Disulfide	76	2.521	2.521	(0.524)	349061	100.000	90.54
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	68395	50.0000	46.67

21 Vinyl Acetate	43	4.339	4.339 (0.901)	73313	100.000	87.61
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	126802	50.0000	45.62

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	103021	50.0000	43.27
	24 2-Butanone	43	4.261	4.261	(0.885)	72110	100.000	86.76
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	45333	50.0000	43.29(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	103328	50.0000	46.81
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	78653	50.0000	45.34
	28 Chloroform	83	4.572	4.572	(0.949)	132369	50.0000	46.63
	29 Bromochloromethane	128	4.470	4.470	(0.928)	40943	50.0000	42.64
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	89390	50.0000	56.11
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	107343	50.0000	48.21
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	95977	50.0000	46.33
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	104658	50.0000	47.46
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	85977	50.0000	49.51
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	106368	50.0000	52.35
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	339582	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	299887	50.0000	42.90
	38 Trichloroethene	130	5.786	5.786	(1.042)	76259	50.0000	44.96
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	93548	50.0000	47.35
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	31152	50.0000	49.64
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	3920	100.000	85.93(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	81322	50.0000	43.93
	43 2-Nitropropane	43	6.506	6.506	(1.351)	18486	50.0000	48.75
	44 Dibromomethane	93	6.120	6.120	(1.102)	46177	50.0000	42.73
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	142329	100.000	83.25
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	109763	50.0000	47.56
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	310203	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	347317	50.0000	57.68
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	92402	50.0000	42.84
	50 Toluene	91	6.982	6.982	(0.853)	317217	50.0000	44.91
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	89524	50.0000	43.11
	52 2-Hexanone	43	7.214	7.214	(0.881)	100513	100.000	87.41
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	57819	50.0000	42.33
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	121681	50.0000	42.39
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	71547	50.0000	50.21
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	63255	50.0000	47.85
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	67211	50.0000	44.58
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	54972	50.0000	41.92
	59 Chlorobenzene	112	8.212	8.212	(1.003)	201235	50.0000	46.81
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	70406	50.0000	46.39
	61 Ethylbenzene	106	8.305	8.305	(1.015)	101145	50.0000	46.27
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	254478	100.000	97.51
	63 o-Xylene	106	8.748	8.748	(1.069)	125346	50.0000	48.74
	64 Styrene	104	8.763	8.763	(1.071)	205879	50.0000	47.88
	66 Bromoform	173	8.920	8.920	(1.090)	43848	50.0000	45.50
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	312320	50.0000	48.95
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	94444	50.0000	43.79
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	128430	50.0000	54.28
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	174679	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	90838	50.0000	41.43
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	17539	50.0000	40.46(M)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	351694	50.0000	46.56
	74 Bromobenzene	156	9.317	9.317	(0.916)	89317	50.0000	43.52
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	244800	50.0000	42.77

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	227677	50.0000	44.53
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	259315	50.0000	44.69

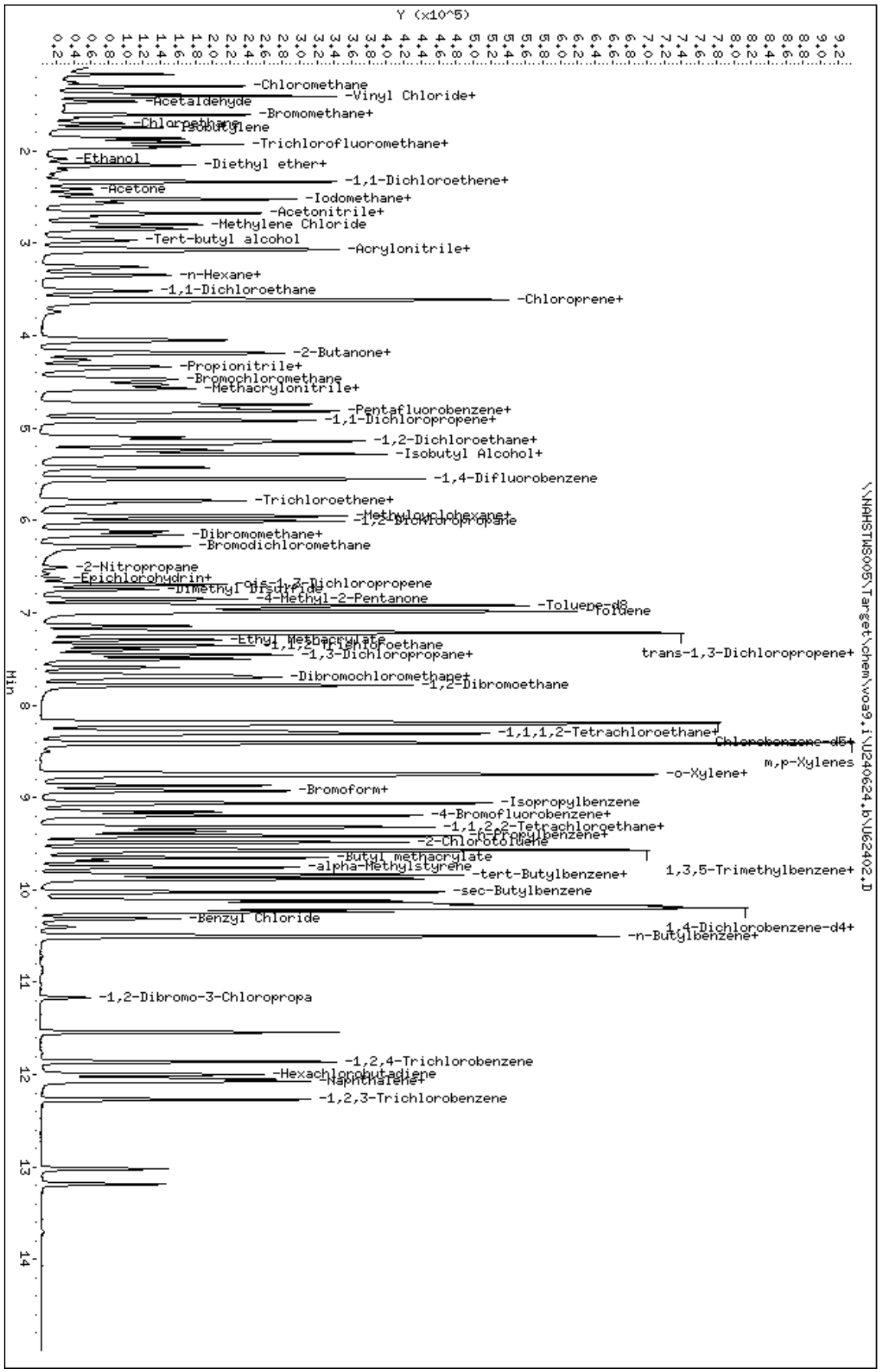
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	222286	50.0000	48.28
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	233215	50.0000	41.95
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	294728	50.0000	48.07
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	250572	50.0000	42.66
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	162213	50.0000	42.95
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	168265	50.0000	46.49
86	Benzyl Chloride	91	10.311	10.311	(1.260)	103482	50.0000	35.00
87	n-Butylbenzene	91	10.495	10.495	(1.032)	219930	50.0000	42.11
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	157807	50.0000	41.97
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	11573	50.0000	43.22
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	102173	50.0000	44.91
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	48143	50.0000	47.73
92	Naphthalene	128	12.069	12.069	(1.186)	212934	50.0000	40.51
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	92232	50.0000	44.28
146	Methyl acetate	43	2.712	2.712	(0.563)	59457	50.0000	47.82
138	Freon TF	101	2.337	2.337	(0.485)	61252	50.0000	47.55
141	Cyclohexane	56	4.782	4.782	(0.993)	99860	50.0000	43.05
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	27227	100.000	95.86
147	Methylcyclohexane	55	5.947	5.947	(1.071)	173883	50.0000	48.22
135	1,4-Dioxane	88	6.165	6.165	(1.280)	18227	1000.00	1007.54
132	n-Butanol	56	5.820	5.820	(1.209)	42191	1000.00	966.61
136	n-Hexane	57	3.342	3.342	(0.694)	72784	50.0000	47.33
139	Diethyl ether	59	2.146	2.146	(0.446)	53183	50.0000	45.65
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	122863	1000.00	893.81
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	100575	1000.00	951.85
156	Diisopropyl ether	45	3.619	3.619	(0.752)	237302	50.0000	41.02
162	Butyl acrylate	55	8.733	8.733	(1.067)	121453	50.0000	42.53
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	329153	50.0000	43.52
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	215392	50.0000	43.11
167	Ethanol	45	2.086	2.086	(0.433)	20017	1000.00	985.78
172	tert-Butyl formate	59	5.239	5.239	(1.088)	108803	100.000	92.40
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	406673	1000.00	868.36
140	1,3-Butadiene	54	1.408	1.408	(0.292)	90250	50.0000	43.82
182	Epichlorohydrin	57	6.630	6.630	(1.194)	10910	200.000	185.44
M 94	1,2-Dichloroethylene (total)	96				147048	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	83942	50.0000	42.02
130	Ethyl Acetate	43	4.530	4.530	(0.941)	28334	50.0000	50.14(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	83766	50.0000	42.14
189	n-Butyl acetate	43	7.706	7.706	(0.941)	102766	50.0000	41.55
134	Cyclohexanone	55	9.153	9.153	(0.900)	79372	1000.00	882.76
185	Isoprene	39	2.158	2.158	(0.448)	15701	50.0000	45.09
188	Isopropyl acetate	43	5.284	5.284	(0.951)	199883	50.0000	44.01
150	Allyl alcohol	57	3.342	3.342	(0.694)	72784	1000.00	946.69
194	Acetaldehyde	44	1.464	1.464	(0.304)	70626	200.000	176.18(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	54335	50.0000	47.55
202	Isobutylene	41	1.749	1.749	(0.363)	34171	50.0000	42.92(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	173883	50.0000	46.09
163	Butyl methacrylate	41	9.651	9.651	(0.949)	83326	50.0000	47.02
159	Propylene oxide	43	2.202	2.202	(0.457)	9477	100.000	86.50
178	Ethylene oxide	44	1.603	1.603	(0.333)	149209	100.000	83.81(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	85102	50.0000	45.22
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	78419	50.0000	44.48(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	147080	50.0000	42.43(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	109893	50.0000	40.04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.929	1.929	(0.401)	111333	50.0000	45.22(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.


Y (x10^5)
Min
-Chloromethane
-Vinyl Chloride+
-Acetaldehyde
-Bromomethane+
-Chloroethane
Isobutylene
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether+
-1,1-Dichloroethene+
-Acetone
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Methacrylonitrile+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Methylcyclohexane+
-1,2-Dichloropropane
-Dibromomethane+
-Bromodichloromethane
-2-Nitropropane
-Epichlorohydrin+
-Dimethyl Disulfide
cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
Toluene
-Ethyl Methacrylate
1,1,2-Trichloroethane
-1,3-Dichloropropane+
trans-1,3-Dichloropropene+
-Dibromochloromethane+
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
Chlorobenzene-d5+
m,p-Xylenes
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,1,2,2-Tetrachloroethane+
-n-Propylbenzene+
-2-Chlorotoluene
-Butyl methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene+
1,3,5-Trimethylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
\\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62402.D
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Date : 24-JUN-2024 11:05
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Page 1

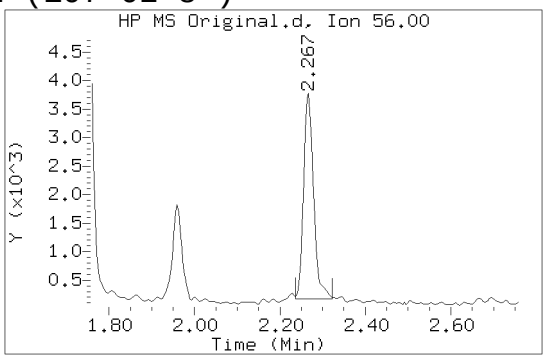
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Inj Date : 24-JUN-2024 11:05
InstruID : VOA9.i
LabSampID : VSTD050

Acrolein (107-02-8)

Reason Code: MBA

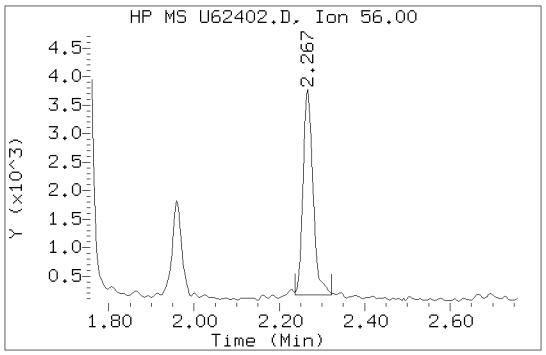
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29-Jun-2024
12:38
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zaid



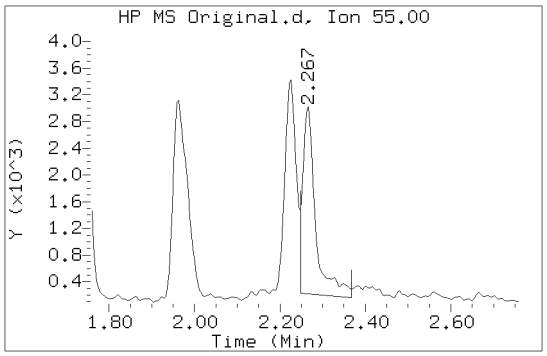
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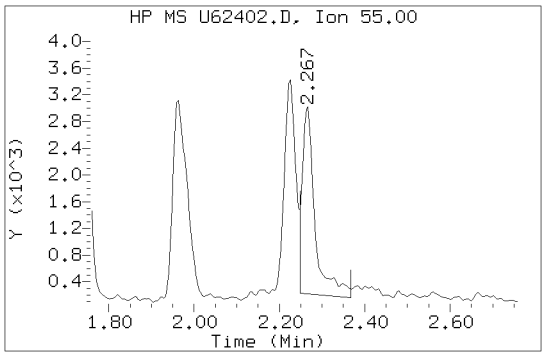
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AFTER

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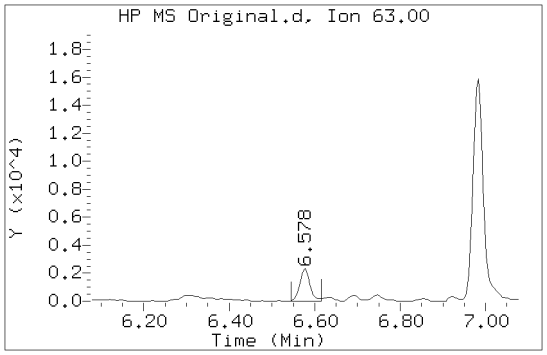


2-Chloroethylvinyl ether (110-75-8)

Reason Code: MBA

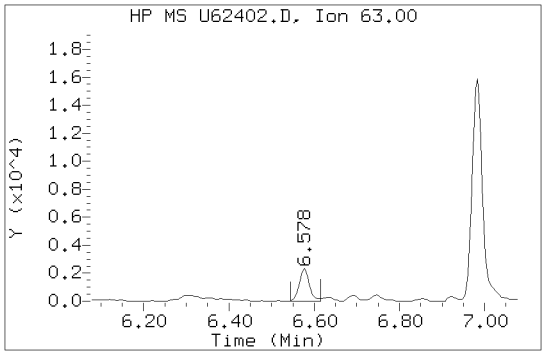
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12:38
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zaid



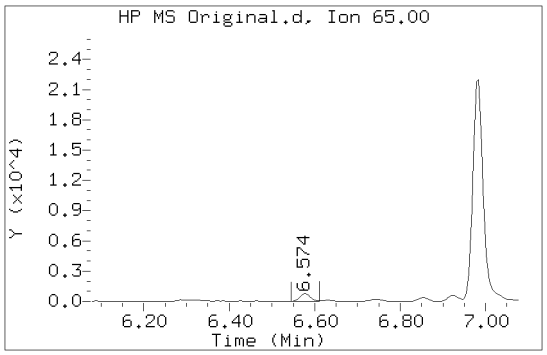
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29-Jun-2024
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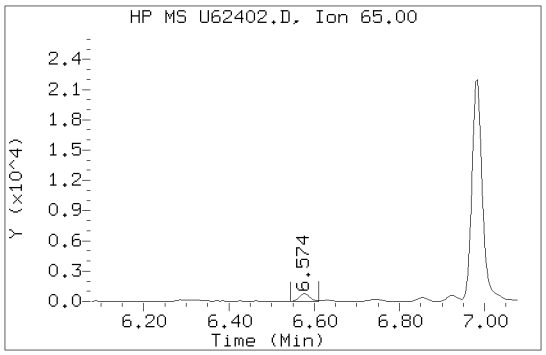
BEFORE

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AREA
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HEIGHT
741
29-Jun-2024
12:38
s
zaid



AFTER

MASS
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AREA
1350
HEIGHT
741
29-Jun-2024
12:38
s
zaid



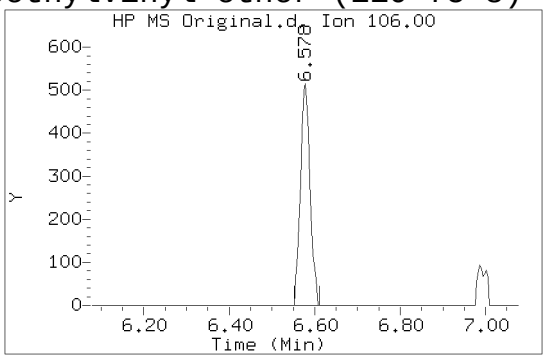
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Inj Date : 24-JUN-2024 11:05
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code: MBA

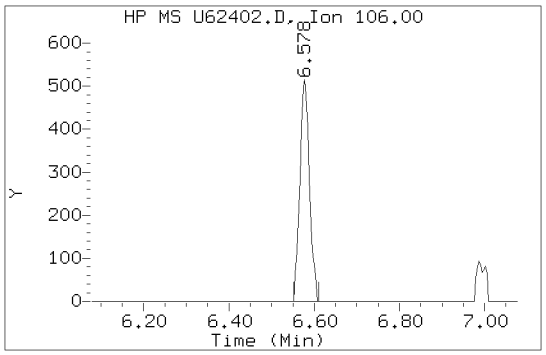
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HEIGHT
515
29-Jun-2024
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zaid



AFTER

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AREA
827
HEIGHT
515
29-Jun-2024
12:38
s
zaid

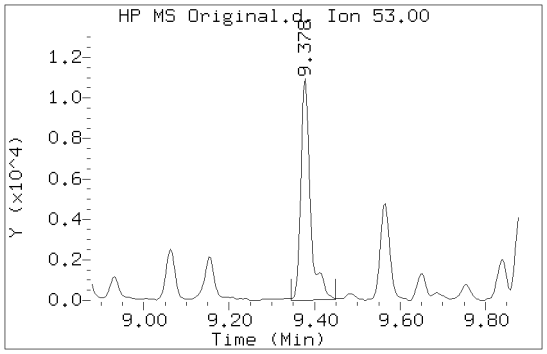


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code: MBA

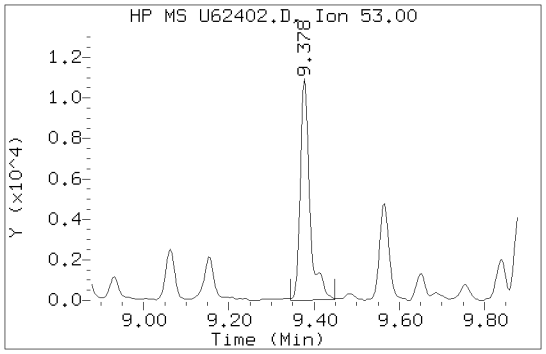
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12:38
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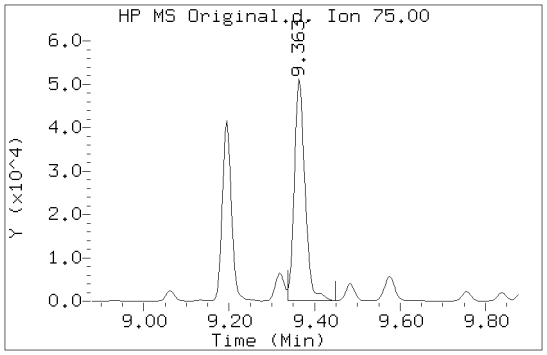
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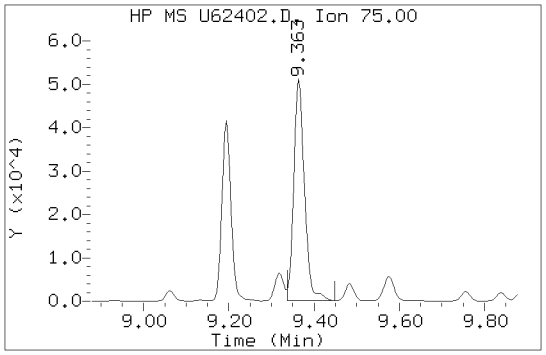
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51153
29-Jun-2024
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zaid



AFTER

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51153
29-Jun-2024
12:38
s
zaid

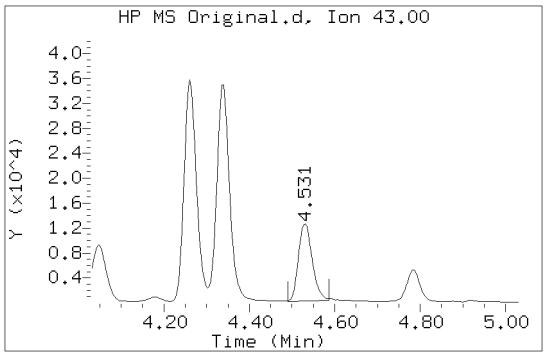


Ethyl Acetate (141-78-6)

Reason Code: MUP

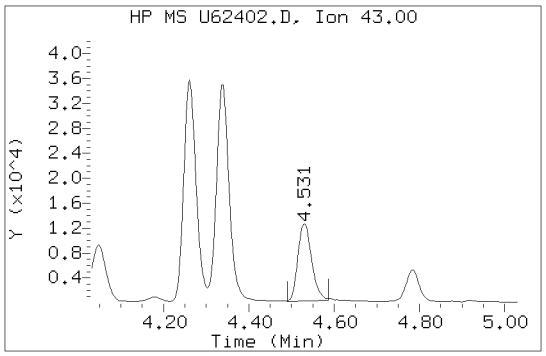
BEFORE

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HEIGHT
12426
29-Jun-2024
12:38
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zaid



AFTER

MASS
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AREA
28334
HEIGHT
12426
29-Jun-2024
12:38
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zaid

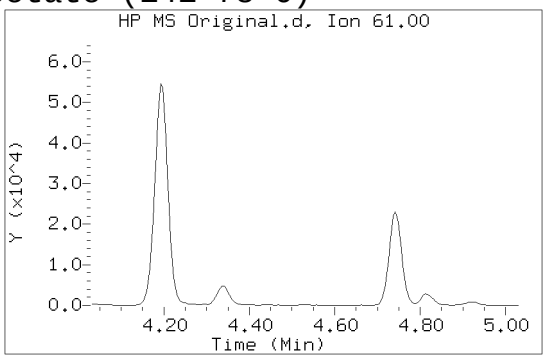


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Inj Date : 24-JUN-2024 11:05
InstruID : VOA9.i
LabSampID : VSTD050

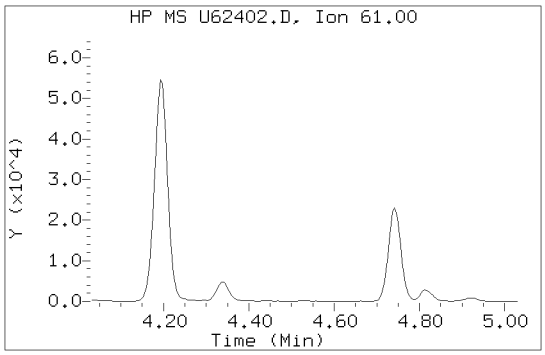
Ethyl Acetate (141-78-6)

Reason Code: MUP

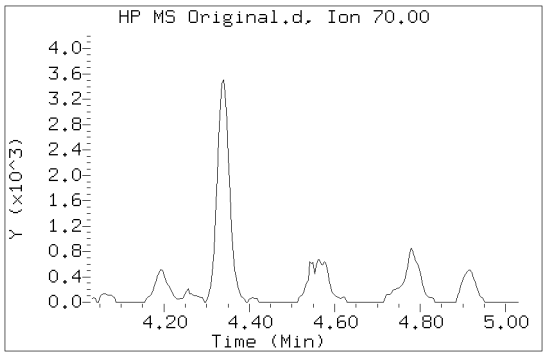
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29-Jun-2024
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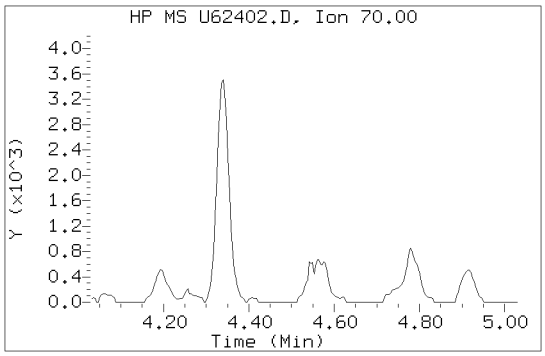
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BEFORE
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12:38
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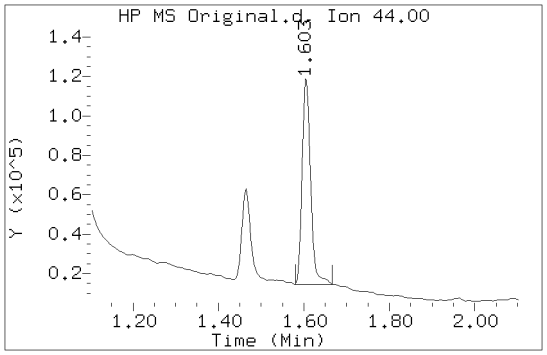
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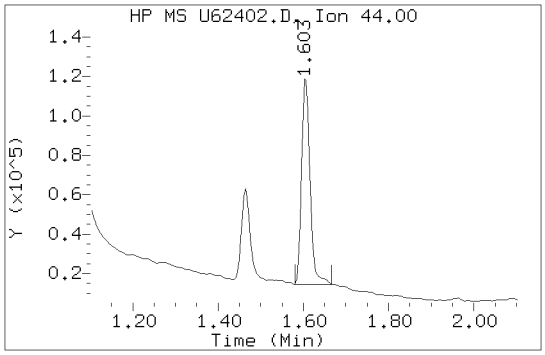
Ethylene oxide (75-21-8)

Reason Code: MUP

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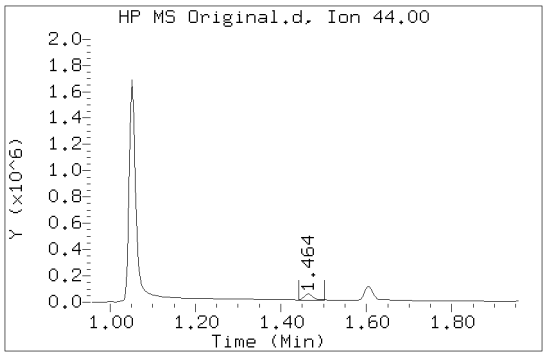
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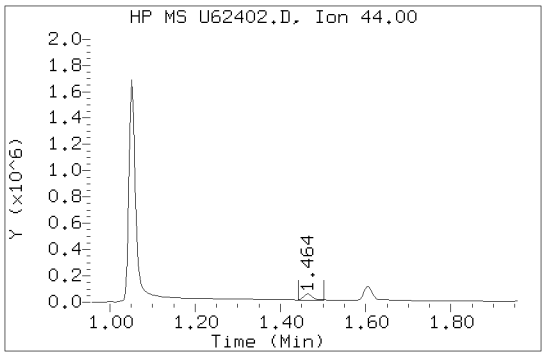
Acetaldehyde (75-07-0)

Reason Code: MPT

BEFORE
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29-Jun-2024
12:38
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zaid



AFTER
MASS
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70626
HEIGHT
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29-Jun-2024
12:38
s
zaid



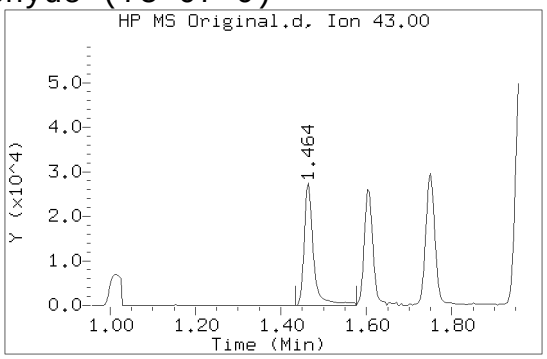
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Inj Date : 24-JUN-2024 11:05
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code: MPT

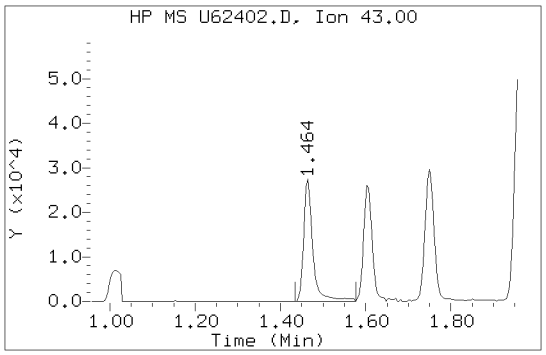
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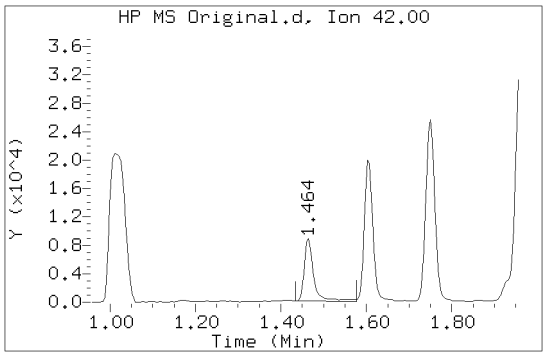
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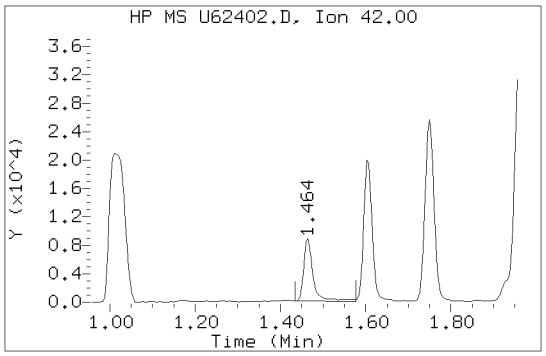
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29-Jun-2024
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AFTER

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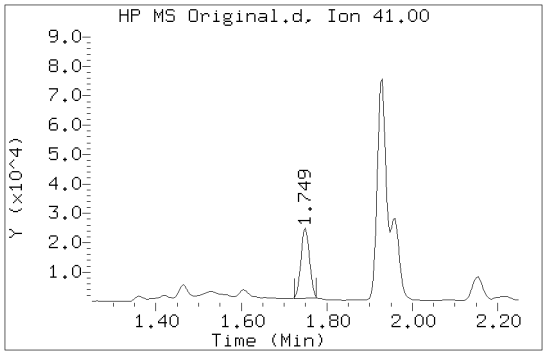


Isobutylene (115-11-7)

Reason Code: MUP

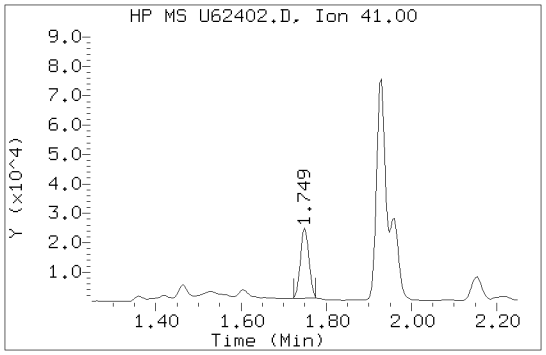
BEFORE

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29-Jun-2024
12:38
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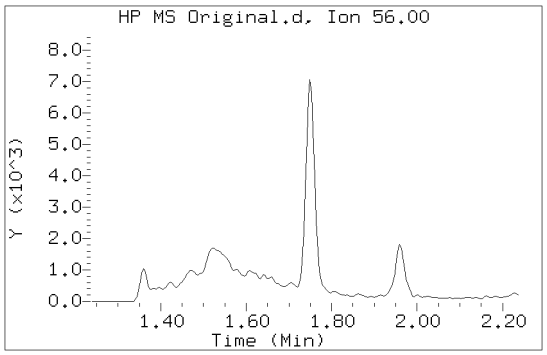
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29-Jun-2024
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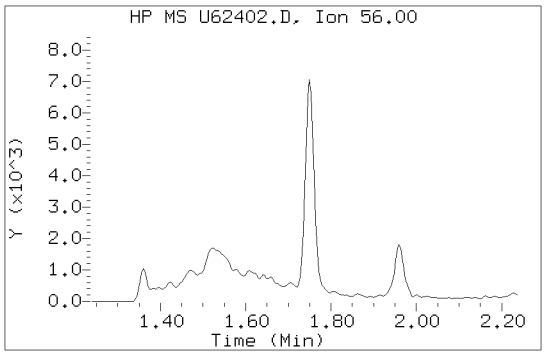
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29-Jun-2024
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zaid



AFTER

MASS
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HEIGHT
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29-Jun-2024
12:38
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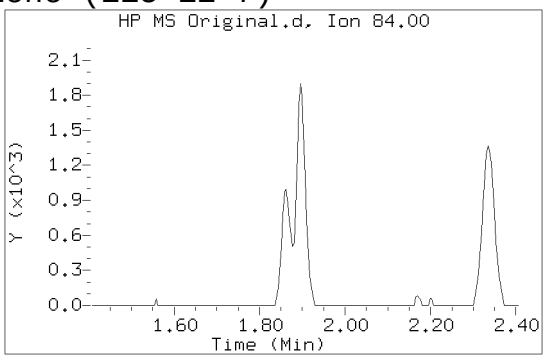
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Isobutylene (115-11-7)

Reason Code: MUP

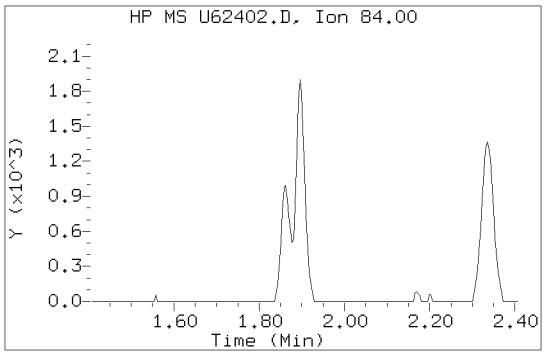
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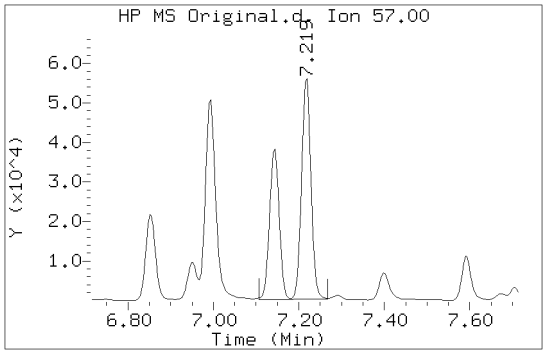


sec-Butyl Ether (6863-58-7)

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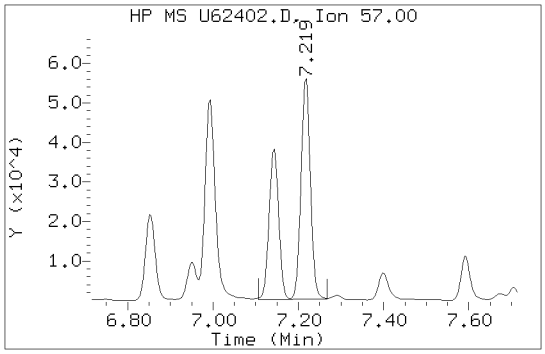
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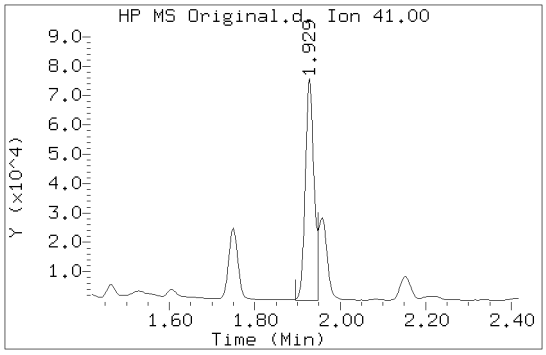


2-Chloropropene (557-98-2)

Reason Code: MIP

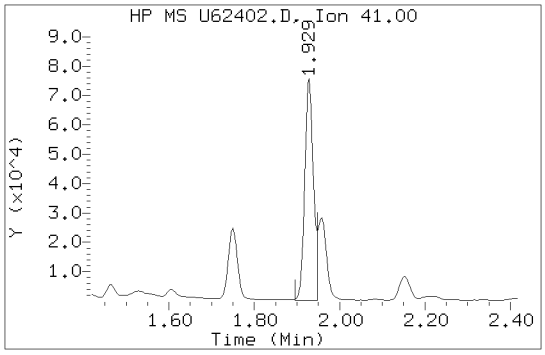
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62403.D Page 1
Report Date: 29-Jun-2024 12:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62403.D
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Misc Info : V9;WATER;0;1;
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Meth Date : 29-Jun-2024 12:38 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.815	(1.000)	242709	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.168	(0.241)	29952	17.2798	17.27
3 Chloromethane	50	1.292	1.299	(0.269)	65192	15.6910	15.69
4 Propionitrile	54	4.324	4.332	(0.899)	42464	187.082	187.08(a)
5 Vinyl Chloride	62	1.370	1.382	(0.285)	37466	17.4944	17.49
6 Bromomethane	94	1.606	1.610	(0.334)	18954	22.7042	22.70
7 Chloroethane	64	1.693	1.700	(0.352)	23059	16.4771	16.47
8 Trichlorofluoromethane	101	1.888	1.895	(0.392)	43941	18.9023	18.90
9 Acrolein	56	2.255	2.266	(0.469)	2679	32.2202	32.22
10 Acetone	43	2.397	2.409	(0.498)	23628	33.2285	33.22
11 1,1-Dichloroethene	96	2.322	2.334	(0.483)	25152	17.7640	17.76
12 Isobutyl Alcohol	43	5.276	5.284	(1.097)	77954	325.349	325.34(a)
13 Acetonitrile	39	2.664	2.671	(0.554)	32048	166.003	166.00(a)
14 Allyl Chloride	41	2.664	2.671	(0.554)	74538	16.6103	16.61(a)
15 Iodomethane	142	2.457	2.469	(0.511)	23253	44.1278	44.12
16 Acrylonitrile	53	3.053	3.065	(0.635)	20256	33.8739	33.87
17 Methylene Chloride	84	2.787	2.795	(0.579)	32332	17.6426	17.64
18 Methyl tert-butyl ether	73	3.068	3.080	(0.638)	73878	17.9699	17.96
19 Carbon Disulfide	76	2.514	2.521	(0.522)	139265	35.6913	35.69
20 trans-1,2-Dichloroethene	96	3.050	3.061	(0.634)	27504	18.1744	18.17

21 Vinyl Acetate	43	4.328	4.339 (0.900)	30917	36.3191	36.31
22 1,1-Dichloroethane	63	3.507	3.515 (0.729)	51325	17.7698	17.76

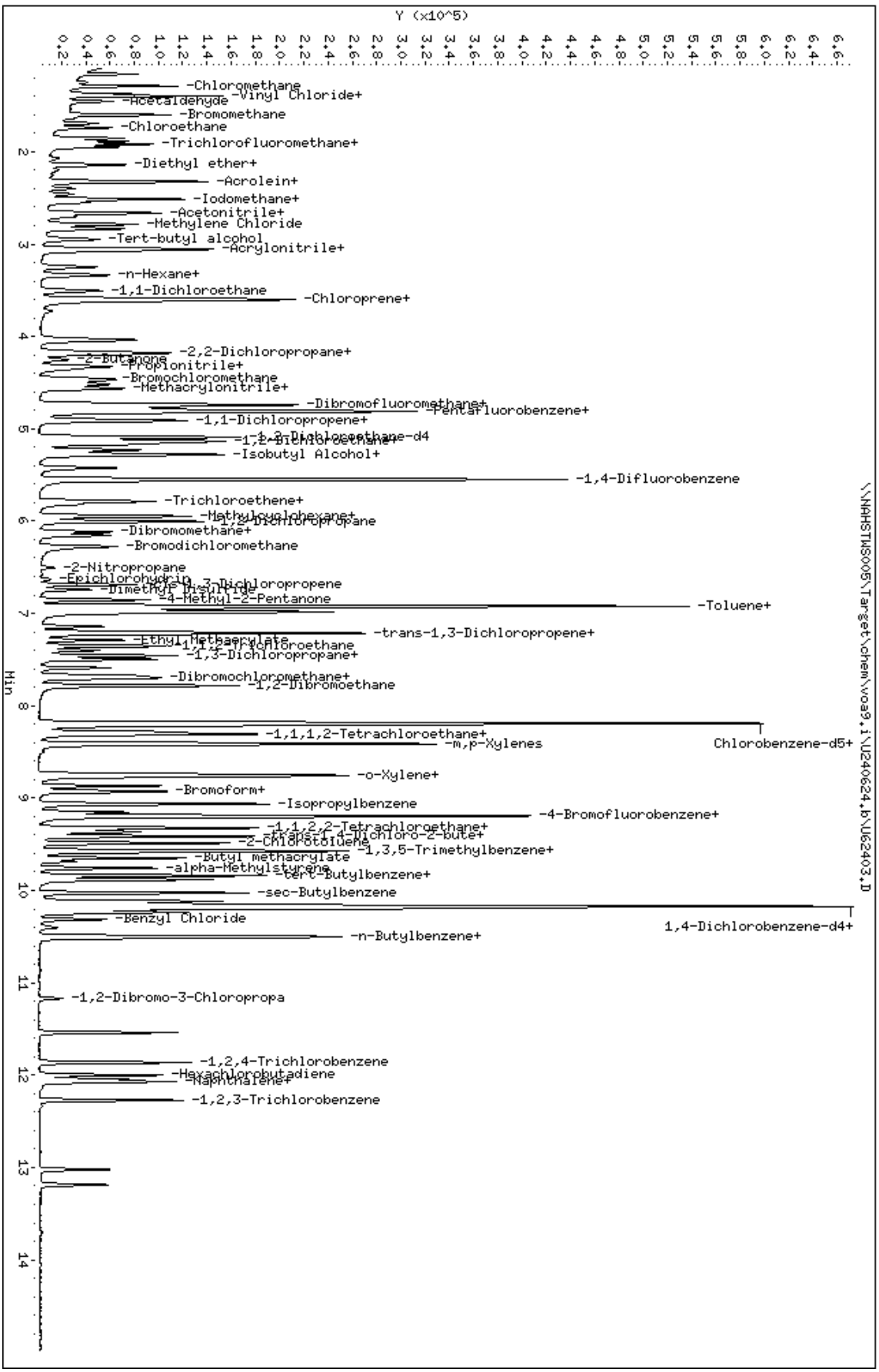
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.601	3.612	(0.748)	41255	16.9704	16.97
	24 2-Butanone	43	4.253	4.261	(0.884)	30678	36.5580	36.55
	25 Methacrylonitrile	41	4.485	4.493	(0.932)	30735	29.2363	29.23(a)
	26 2,2-Dichloropropane	77	4.174	4.182	(0.868)	39163	17.8834	17.88
	27 cis-1,2-Dichloroethene	96	4.186	4.193	(0.870)	30914	17.3781	17.37
	28 Chloroform	83	4.564	4.572	(0.949)	52647	17.7891	17.78
	29 Bromochloromethane	128	4.459	4.470	(0.927)	16326	16.8021	16.80
$	30 Dibromofluoromethane	113	4.740	4.748	(0.985)	90679	56.2459	56.24
	31 1,1,1-Trichloroethane	97	4.737	4.740	(0.984)	42404	18.8180	18.81
	32 1,1-Dichloropropene	75	4.917	4.920	(0.886)	38328	17.9678	17.96
	33 1,2-Dichloroethane	62	5.168	5.175	(0.931)	42739	18.1317	18.13
	34 Carbon Tetrachloride	117	4.905	4.913	(0.884)	32718	18.2997	18.29
$	35 1,2-Dichloroethane-d4	65	5.089	5.096	(1.058)	107697	52.3750	52.37
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	349686	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	120941	16.8049	16.80
	38 Trichloroethene	130	5.782	5.786	(1.042)	31364	17.9583	17.95
	39 Bromodichloromethane	83	6.274	6.277	(1.130)	35875	17.6373	17.63
	40 Methyl Methacrylate	41	5.816	5.820	(1.209)	12801	20.1548	20.15(a)
	42 1,2-Dichloropropane	63	6.004	6.007	(1.082)	32370	16.9813	16.98
	43 2-Nitropropane	43	6.506	6.506	(1.352)	6851	17.8531	17.85
	44 Dibromomethane	93	6.116	6.120	(1.102)	19465	17.4942	17.49
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	54826	32.0790	32.07
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	40709	17.1299	17.12
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	310118	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	336762	55.9467	55.94(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	29937	13.4803	13.48(a)
	50 Toluene	91	6.982	6.982	(0.853)	127135	18.0052	18.00
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	32335	16.5594	16.55
	52 2-Hexanone	43	7.214	7.214	(0.881)	41512	35.5980	35.59
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	23676	17.3406	17.34
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	49314	17.1855	17.18
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	27531	19.3266	19.32
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	25242	19.1010	19.10
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	26514	17.5923	17.59
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	19584	14.0242	14.02
	59 Chlorobenzene	112	8.212	8.212	(1.003)	80722	18.3163	18.31
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	26346	17.3677	17.36
	61 Ethylbenzene	106	8.309	8.305	(1.015)	38547	17.6400	17.63
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	97893	37.5221	37.52
	63 o-Xylene	106	8.748	8.748	(1.069)	47345	18.4153	18.41
	64 Styrene	104	8.763	8.763	(1.071)	77548	18.0413	18.04
	66 Bromoform	173	8.920	8.920	(1.090)	14513	16.0390	16.03
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	120292	18.8588	18.85
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	38189	18.1283	18.12
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	127678	53.9852	53.98
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	168863	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	32988	16.0775	16.07
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	5176	11.9442	11.94(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	136478	18.6904	18.69
	74 Bromobenzene	156	9.321	9.317	(0.916)	34952	17.6174	17.61
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	85858	16.5982	16.59
	76 2-Chlorotoluene	91	9.486	9.482	(0.933)	85690	17.3406	17.34

77	4-Chlorotoluene	91	9.580	9.576 (0.942)	98239	17.5168	17.51
78	tert-Butylbenzene	119	9.839	9.839 (0.967)	82763	18.5966	18.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.884	9.880	(0.972)	86575	16.1115	16.11(M)
81	sec-Butylbenzene	105	10.026	10.022	(0.986)	111651	18.8377	18.83
82	p-Isopropyltoluene	119	10.150	10.146	(0.998)	91853	17.2011	17.20
83	1,3-Dichlorobenzene	146	10.120	10.116	(0.995)	61212	16.7680	16.76
84	1,4-Dichlorobenzene	146	10.195	10.191	(1.002)	65144	18.2412	18.24
86	Benzyl Chloride	91	10.315	10.311	(1.260)	37323	9.15632	9.15
87	n-Butylbenzene	91	10.495	10.495	(1.032)	83867	17.4356	17.43
88	1,2-Dichlorobenzene	146	10.510	10.506	(1.033)	61056	16.7983	16.79
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	3945	15.7702	15.77
90	1,2,4-Trichlorobenzene	180	11.863	11.859	(1.166)	38976	17.7246	17.72
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	19400	19.8967	19.89
92	Naphthalene	128	12.073	12.069	(1.187)	76939	16.3690	16.36
93	1,2,3-Trichlorobenzene	180	12.275	12.271	(1.207)	36490	18.1230	18.12
146	Methyl acetate	43	2.701	2.712	(0.561)	24143	17.6362	17.63
138	Freon TF	101	2.326	2.337	(0.484)	24188	18.2329	18.23
141	Cyclohexane	56	4.778	4.782	(0.993)	42329	17.4716	17.47
142	Tetrahydrofuran	42	4.530	4.538	(0.942)	11581	40.2896	40.28
147	Methylcyclohexane	55	5.944	5.947	(1.071)	63450	17.0878	17.08
135	1,4-Dioxane	88	6.161	6.165	(1.280)	7010	365.546	365.54
132	n-Butanol	56	5.820	5.820	(1.210)	17760	410.415	410.41(a)
136	n-Hexane	57	3.338	3.342	(0.694)	28024	18.0074	18.00
139	Diethyl ether	59	2.135	2.146	(0.444)	20846	17.0766	17.07
148	Tert-butyl alcohol	59	2.948	2.963	(0.613)	51599	363.530	363.53
149	Isopropyl alcohol	45	2.547	2.562	(0.529)	41483	378.824	378.82
156	Diisopropyl ether	45	3.608	3.619	(0.750)	90440	15.4491	15.44
162	Butyl acrylate	55	8.733	8.733	(1.067)	42656	14.9426	14.94
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	118123	16.1564	16.15
166	1,2,3-Trimethylbenzene	105	10.240	10.236	(1.007)	67092	13.8917	13.89
167	Ethanol	45	2.071	2.086	(0.431)	8341	392.017	392.01
172	tert-Butyl formate	59	5.231	5.239	(1.087)	51280	44.9499	44.94
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	149307	309.603	309.60
140	1,3-Butadiene	54	1.397	1.408	(0.290)	36706	17.6123	17.61
182	Epichlorohydrin	57	6.626	6.630	(1.194)	3894	70.5179	70.51
M 94	1,2-Dichloroethylene (total)	96				58418	35.4832	35.48
M 95	Xylenes (total)	106				145238	54.6669	54.66
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	28190	15.3888	15.38
131	Methyl Acrylate	55	4.358	4.365	(0.906)	32937	16.3749	16.37
189	n-Butyl acetate	43	7.706	7.706	(0.941)	38607	15.6142	15.61
134	Cyclohexanone	55	9.156	9.153	(0.900)	29786	341.458	341.45(a)
185	Isoprene	39	2.146	2.158	(0.446)	6240	17.7074	17.70
188	Isopropyl acetate	43	5.276	5.284	(0.951)	77954	16.6712	16.67
150	Allyl alcohol	57	3.338	3.342	(0.694)	28024	360.149	360.14
194	Acetaldehyde	44	1.453	1.464	(0.302)	72685	179.151	179.15
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	16782	16.9480	16.94
133	Ethyl Acrylate	55	5.944	5.947	(1.235)	63450	16.6192	16.61
163	Butyl methacrylate	41	9.651	9.651	(0.949)	30727	17.5616	17.56
159	Propylene oxide	43	2.191	2.202	(0.455)	3976	35.8581	35.85
203	2-Ethylhexyl Acrylate	55	12.047	12.043	(1.184)	25005	15.1120	15.11
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	30209	17.1415	17.14(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	29521	8.51974	8.51(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	44865	16.3531	16.35
206	2-Chloropropene	41	1.918	1.929	(0.399)	54189	21.7487	21.74(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VLCSW-240624;VLCSW-240624;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

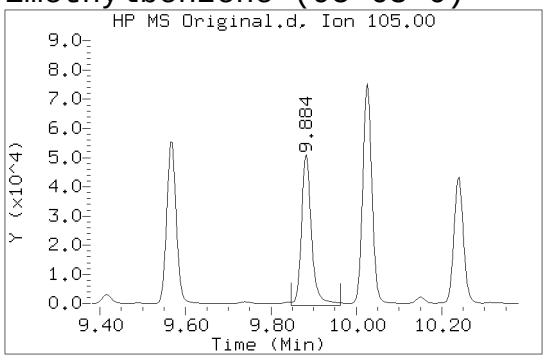
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Inj Date : 24-JUN-2024 12:32
InstruID : VOA9.i
LabSampID : VLCSW-240624

1,2,4-Trimethylbenzene (95-63-6)

Reason Code: MBA

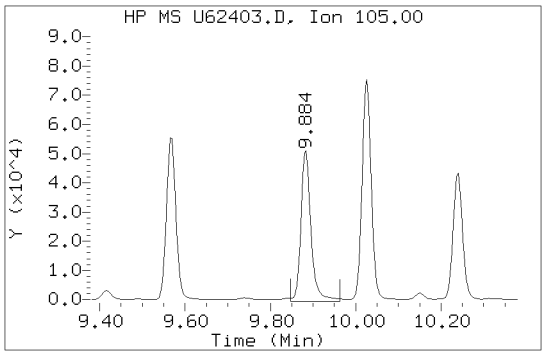
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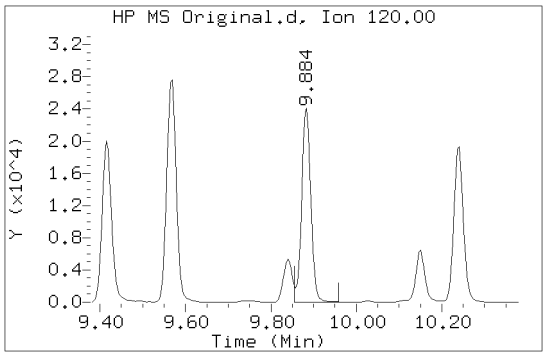
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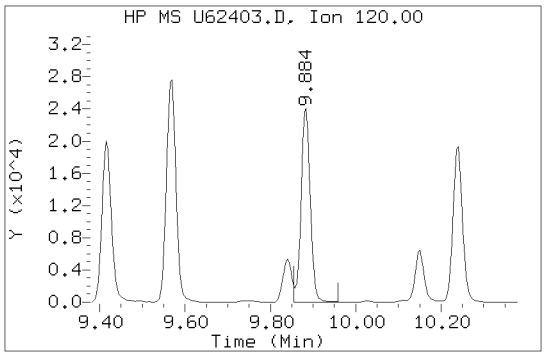
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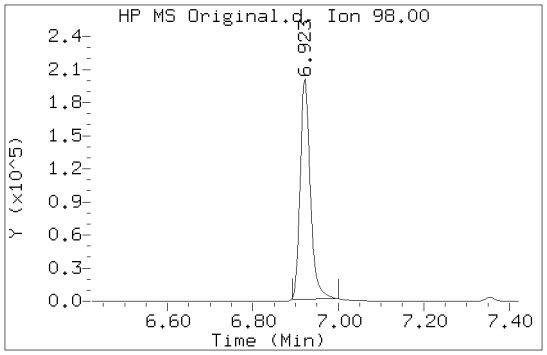


Toluene-d8 (2037-26-5)

Reason Code: MPT

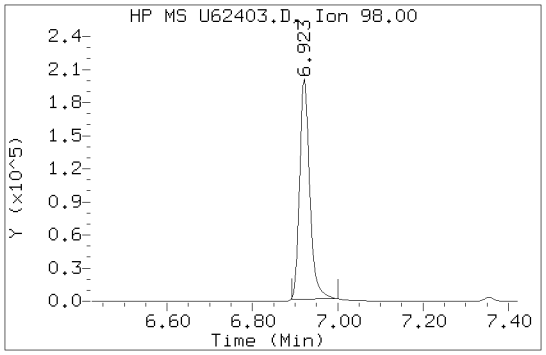
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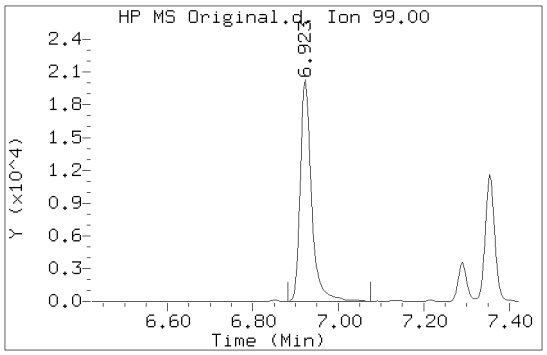
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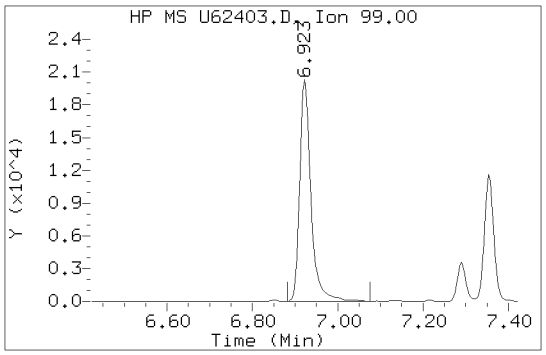
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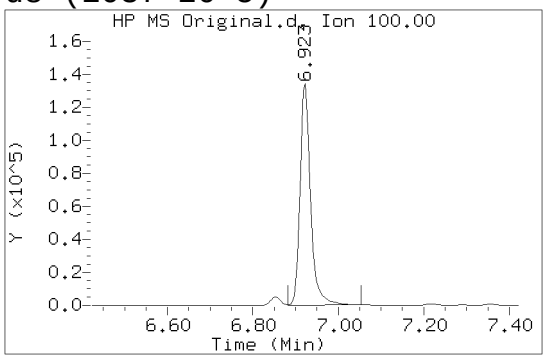
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LabSampID : VLCSW-240624

Toluene-d8 (2037-26-5)

Reason Code: MPT

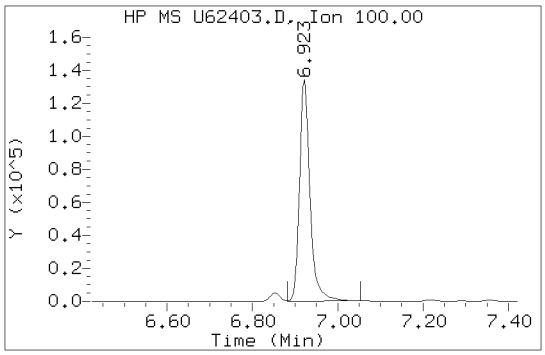
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AFTER

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ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62404.D
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Misc Info : V9;WATER;0;1;
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Meth Date : 29-Jun-2024 12:38 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.815	(1.000)	234234	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.168	(0.242)	25414	15.1922	15.19
3 Chloromethane	50	1.295	1.299	(0.269)	59406	14.7154	14.71
4 Propionitrile	54	4.331	4.332	(0.900)	37997	173.042	173.04(a)
5 Vinyl Chloride	62	1.374	1.382	(0.286)	31620	15.3148	15.31
6 Bromomethane	94	1.606	1.610	(0.334)	16211	19.8822	19.88
7 Chloroethane	64	1.692	1.700	(0.352)	21070	15.5626	15.56
8 Trichlorofluoromethane	101	1.891	1.895	(0.393)	38483	17.1534	17.15
9 Acrolein	56	2.258	2.266	(0.469)	2354	28.7460	28.74
10 Acetone	43	2.401	2.409	(0.499)	20843	29.7013	29.70(M)
11 1,1-Dichloroethene	96	2.326	2.334	(0.483)	21482	15.7210	15.72
12 Isobutyl Alcohol	43	5.280	5.284	(1.097)	75631	327.075	327.07(a)
13 Acetonitrile	39	2.667	2.671	(0.554)	29393	157.241	157.24(a)
14 Allyl Chloride	41	2.667	2.671	(0.554)	68643	15.8251	15.82(a)
15 Iodomethane	142	2.461	2.469	(0.512)	22687	44.5909	44.59
16 Acrylonitrile	53	3.061	3.065	(0.636)	19022	32.9474	32.94
17 Methylene Chloride	84	2.791	2.795	(0.580)	29962	16.8681	16.86
18 Methyl tert-butyl ether	73	3.072	3.080	(0.639)	68790	17.3525	17.35
19 Carbon Disulfide	76	2.513	2.521	(0.522)	120741	32.0635	32.06
20 trans-1,2-Dichloroethene	96	3.053	3.061	(0.635)	24115	16.4546	16.45

21 Vinyl Acetate	43	4.335	4.339 (0.901)	28634	34.8413	34.84
22 1,1-Dichloroethane	63	3.507	3.515 (0.729)	47446	16.9876	16.98

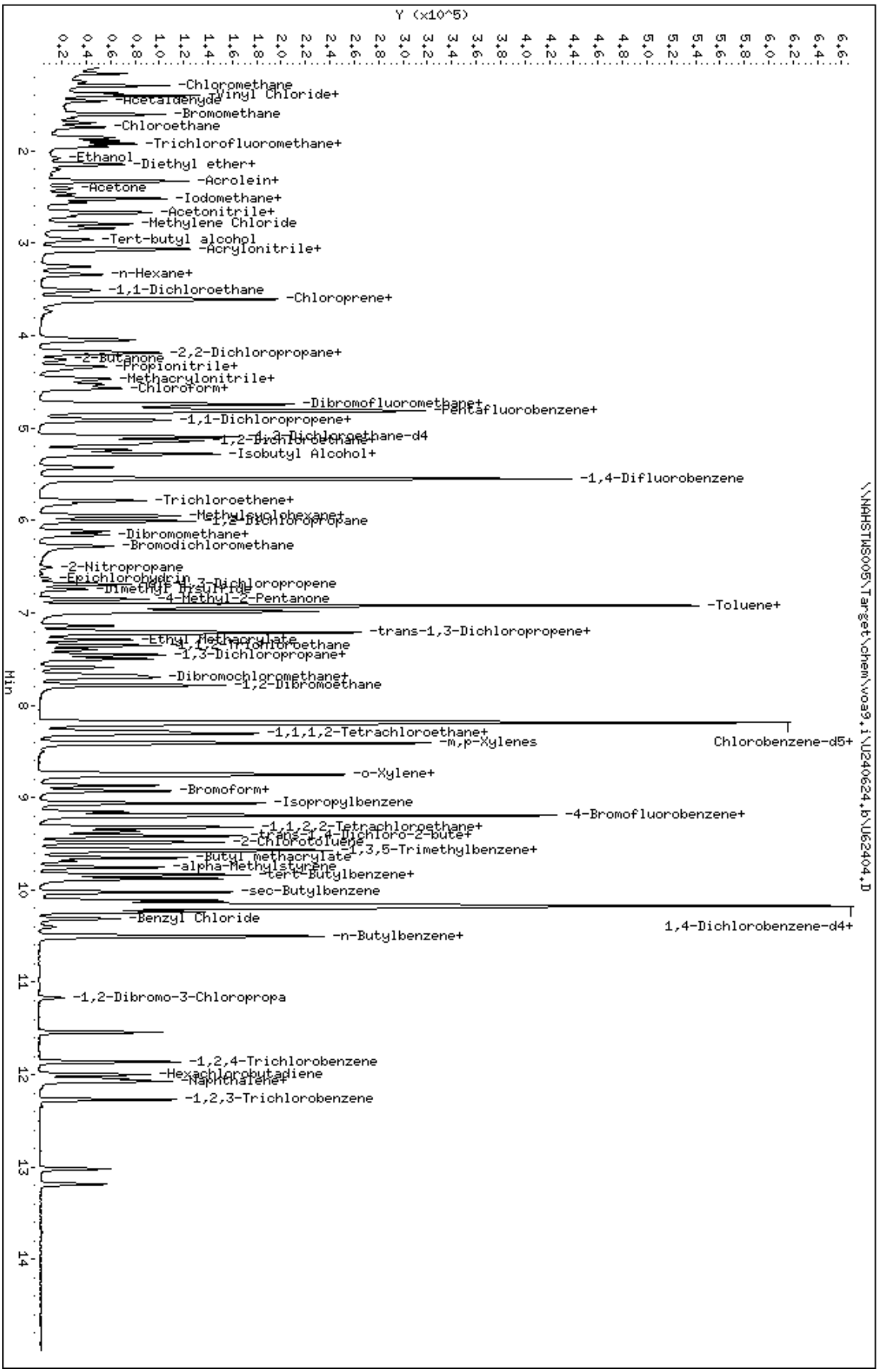
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.604	3.612	(0.749)	36557	15.5613	15.56
	24 2-Butanone	43	4.257	4.261	(0.885)	27920	34.4835	34.48
	25 Methacrylonitrile	41	4.489	4.493	(0.933)	27995	27.6358	27.63(a)
	26 2,2-Dichloropropane	77	4.178	4.182	(0.868)	35368	16.7709	16.77
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	29847	17.3856	17.38
	28 Chloroform	83	4.568	4.572	(0.949)	50140	17.5434	17.54
	29 Bromochloromethane	128	4.463	4.470	(0.928)	15519	16.5495	16.54
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	88776	57.0578	57.05
	31 1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	38548	17.7257	17.72
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	34531	16.7229	16.72
	33 1,2-Dichloroethane	62	5.171	5.175	(0.932)	39636	17.3230	17.32
	34 Carbon Tetrachloride	117	4.909	4.913	(0.885)	29975	17.3197	17.31
$	35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	104789	52.8046	52.80
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	338497	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	111435	15.9959	15.99
	38 Trichloroethene	130	5.786	5.786	(1.043)	28274	16.7241	16.72
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	33328	16.9267	16.92
	40 Methyl Methacrylate	41	5.820	5.820	(1.210)	11283	18.4075	18.40(a)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	30659	16.6154	16.61
	43 2-Nitropropane	43	6.506	6.506	(1.352)	5214	14.0788	14.07
	44 Dibromomethane	93	6.116	6.120	(1.102)	18445	17.1254	17.12
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	53740	32.1561	32.15
	46 cis-1,3-Dichloropropene	75	6.689	6.690	(1.205)	38097	16.5607	16.56
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	303246	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	327375	55.6198	55.61(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	33924	15.7806	15.78(a)
	50 Toluene	91	6.982	6.982	(0.853)	117451	17.0107	17.01
	51 trans-1,3-Dichloropropene	75	7.195	7.196	(1.297)	31569	16.6825	16.68
	52 2-Hexanone	43	7.214	7.214	(0.881)	38863	34.0443	34.04
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	23375	17.5081	17.50
	54 1,3-Dichloropropane	76	7.495	7.499	(0.916)	47785	17.0301	17.03
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	25146	18.0524	18.05
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	23338	18.0604	18.06
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	25882	17.5621	17.56
	58 1-Chlorohexane	55	8.196	8.197	(1.477)	21044	15.6489	15.64
	59 Chlorobenzene	112	8.208	8.212	(1.003)	76772	17.7933	17.79
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	25737	17.3507	17.35
	61 Ethylbenzene	106	8.309	8.305	(1.015)	35944	16.8215	16.82
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	90945	35.6489	35.64
	63 o-Xylene	106	8.747	8.748	(1.069)	45209	17.9829	17.98
	64 Styrene	104	8.762	8.763	(1.071)	76428	18.1836	18.18
	66 Bromoform	173	8.920	8.920	(1.090)	15256	17.1575	17.15
	67 Isopropylbenzene	105	9.062	9.063	(1.107)	110494	17.7153	17.71
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.329	(0.917)	37898	17.9793	17.97
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	129479	55.9874	55.98
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	168940	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	35171	17.0796	17.07
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	6768	15.9719	15.97(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	127534	17.4576	17.45
	74 Bromobenzene	156	9.317	9.317	(0.916)	33710	16.9837	16.98
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	82356	15.9836	15.98
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	81030	16.3901	16.39

77	4-Chlorotoluene	91	9.576	9.576 (0.941)	93084	16.5901	16.59
78	tert-Butylbenzene	119	9.838	9.839 (0.967)	77453	17.3955	17.39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	83191	15.4747	15.47
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	101384	17.0976	17.09
82	p-Isopropyltoluene	119	10.149	10.146	(0.998)	85485	16.1162	16.11
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	58983	16.1500	16.15(M)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	63179	17.6636	17.66
86	Benzyl Chloride	91	10.311	10.311	(1.260)	44545	12.3735	12.37
87	n-Butylbenzene	91	10.494	10.495	(1.032)	77076	16.1273	16.12
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	59020	16.2307	16.23
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	3988	15.9301	15.93
90	1,2,4-Trichlorobenzene	180	11.863	11.859	(1.166)	36262	16.4829	16.48
91	Hexachlorobutadiene	225	12.001	12.002	(1.180)	16896	17.3207	17.32
92	Naphthalene	128	12.069	12.069	(1.186)	74544	15.9141	15.91
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	34133	16.9446	16.94
146	Methyl acetate	43	2.708	2.712	(0.563)	22861	17.2551	17.25
138	Freon TF	101	2.330	2.337	(0.484)	21161	16.4789	16.47
141	Cyclohexane	56	4.781	4.782	(0.994)	37305	15.8712	15.87
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	9557	34.4512	34.45
147	Methylcyclohexane	55	5.943	5.947	(1.071)	58672	16.3234	16.32
135	1,4-Dioxane	88	6.165	6.165	(1.281)	6434	345.898	345.89
132	n-Butanol	56	5.820	5.820	(1.210)	15030	360.418	360.41(a)
136	n-Hexane	57	3.338	3.342	(0.694)	25190	16.7720	16.77
139	Diethyl ether	59	2.138	2.146	(0.445)	19533	16.5512	16.55
148	Tert-butyl alcohol	59	2.959	2.963	(0.615)	46358	337.554	337.55
149	Isopropyl alcohol	45	2.558	2.562	(0.532)	35753	336.671	336.67
156	Diisopropyl ether	45	3.615	3.619	(0.751)	85832	15.1924	15.19
162	Butyl acrylate	55	8.732	8.733	(1.067)	44142	15.8136	15.81
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	113455	15.5109	15.51
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	72025	14.9063	14.90
167	Ethanol	45	2.079	2.086	(0.432)	7390	357.959	357.95
172	tert-Butyl formate	59	5.239	5.239	(1.089)	46626	42.4035	42.40
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	141972	304.125	304.12
140	1,3-Butadiene	54	1.400	1.408	(0.291)	30729	15.2779	15.27
182	Epichlorohydrin	57	6.629	6.630	(1.195)	3624	68.0436	68.04
M 94	1,2-Dichloroethylene (total)	96				53962	33.9206	33.92
M 95	Xylenes (total)	106				136154	52.9417	52.94
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	29343	15.9740	15.97
131	Methyl Acrylate	55	4.365	4.365	(0.907)	30253	15.5847	15.58
189	n-Butyl acetate	43	7.705	7.706	(0.941)	40331	16.6811	16.68
134	Cyclohexanone	55	9.152	9.153	(0.900)	29537	338.396	338.39(a)
185	Isoprene	39	2.150	2.158	(0.447)	5246	15.4253	15.42
188	Isopropyl acetate	43	5.280	5.284	(0.951)	75700	16.7243	16.72
150	Allyl alcohol	57	3.338	3.342	(0.694)	25190	335.441	335.44
194	Acetaldehyde	44	1.456	1.464	(0.303)	58929	150.501	150.50
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	15841	16.4248	16.42
133	Ethyl Acrylate	55	5.943	5.947	(1.235)	58672	15.9238	15.92
163	Butyl methacrylate	41	9.651	9.651	(0.949)	30742	17.5622	17.56
159	Propylene oxide	43	2.198	2.202	(0.457)	3103	28.9974	28.99
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	24774	14.9797	14.97
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	29100	16.8864	16.88(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	31455	9.28361	9.28(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	45602	16.9984	16.99
206	2-Chloropropene	41	1.921	1.929	(0.399)	46476	19.3280	19.32(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Column phase: DB624

Instrument: WOA9,i
Operator: TS
Column diameter: 0.18

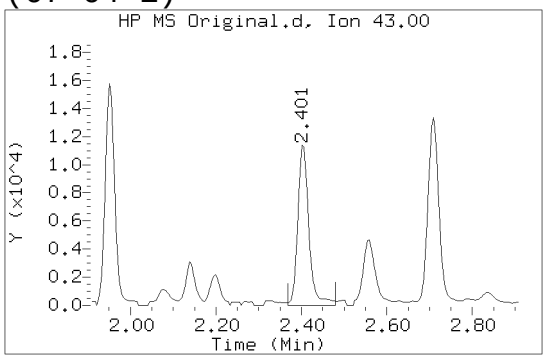
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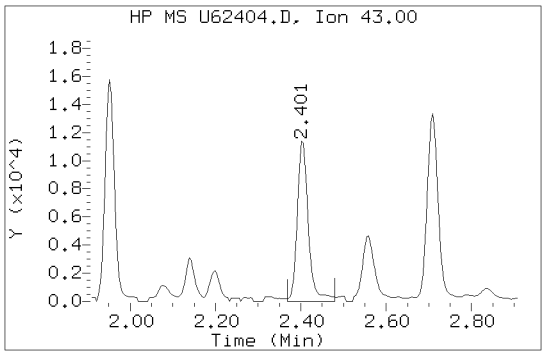
Acetone (67-64-1)

Reason Code: MBA

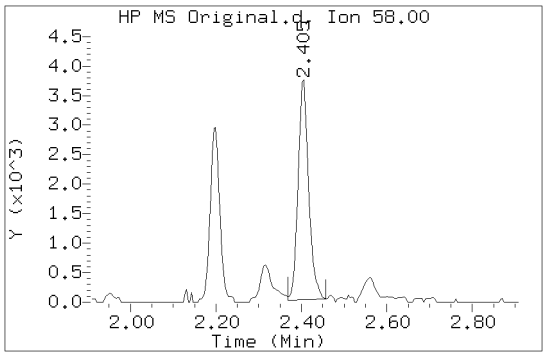
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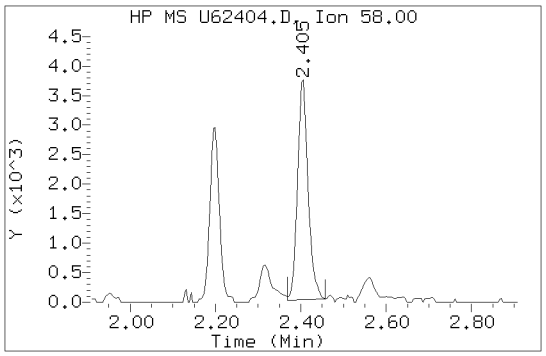
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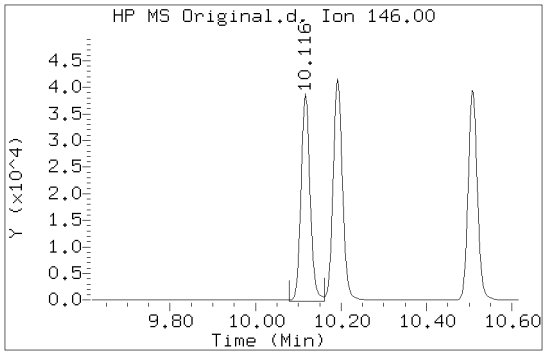
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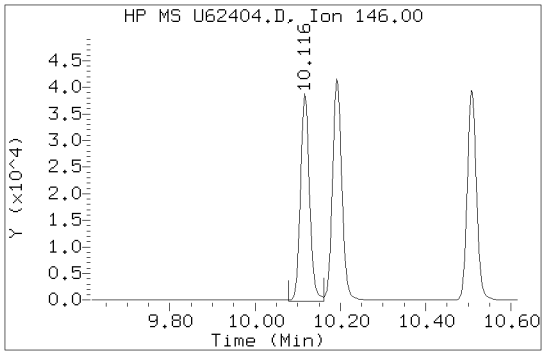
1,3-Dichlorobenzene (541-73-1)

Reason Code: MBA

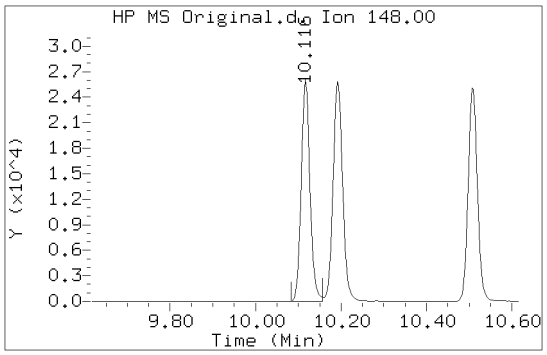
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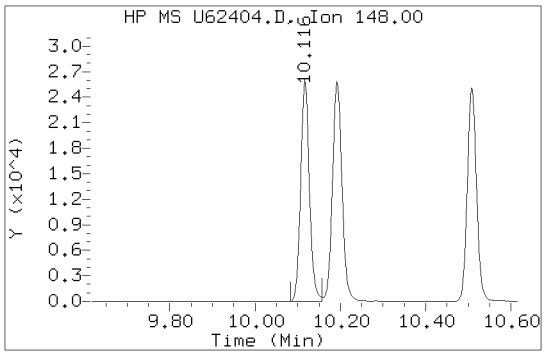
AFTER
MASS
146
AREA
58983
HEIGHT
39018
29-Jun-2024
12:41
s
zaid



BEFORE
MASS
148
AREA
37920
HEIGHT
26056
29-Jun-2024
12:41
s
zaid



AFTER
MASS
148
AREA
37920
HEIGHT
26056
29-Jun-2024
12:41
s
zaid



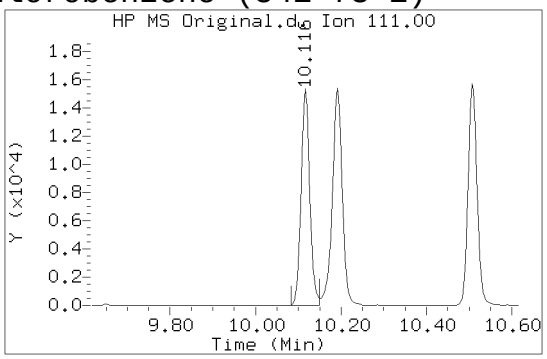
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62404.D
Inj Date : 24-JUN-2024 12:54
InstruID : VOA9.i
LabSampID : VLCSDW-240624

1,3-Dichlorobenzene (541-73-1)

Reason Code: MBA

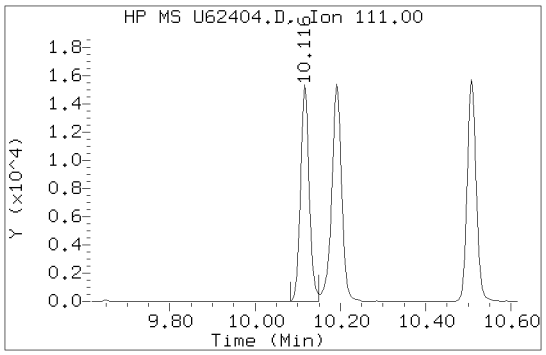
BEFORE

MASS
111
AREA
22062
HEIGHT
15334
29-Jun-2024
12:41
s
zaid



AFTER

MASS
111
AREA
22062
HEIGHT
15334
29-Jun-2024
12:41
s
zaid

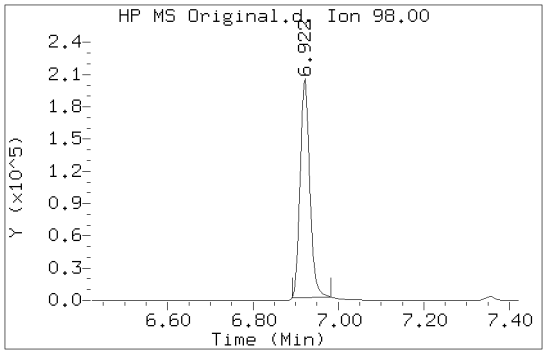


Toluene-d8 (2037-26-5)

Reason Code: MPT

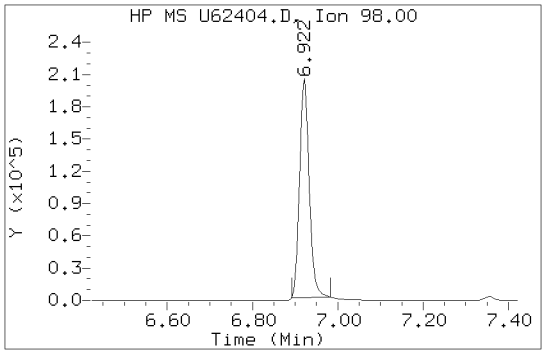
BEFORE

MASS
98
AREA
327375
HEIGHT
203621
29-Jun-2024
12:41
s
zaid



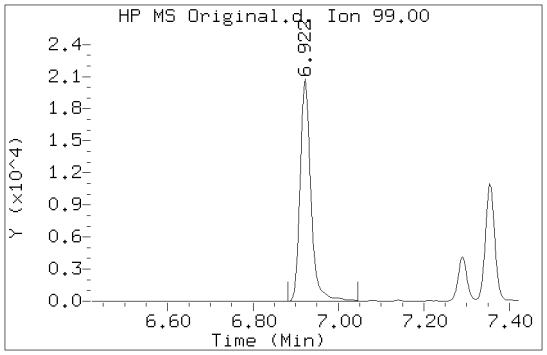
AFTER

MASS
98
AREA
327375
HEIGHT
203621
29-Jun-2024
12:41
s
zaid



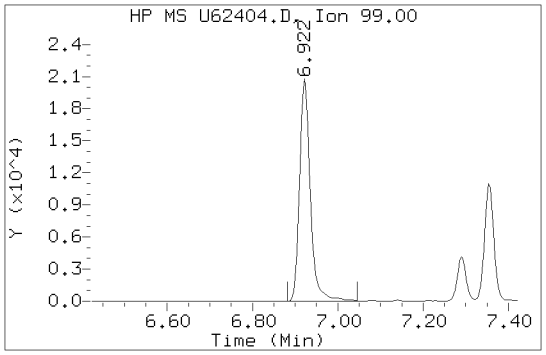
BEFORE

MASS
99
AREA
37330
HEIGHT
20784
29-Jun-2024
12:41
s
zaid



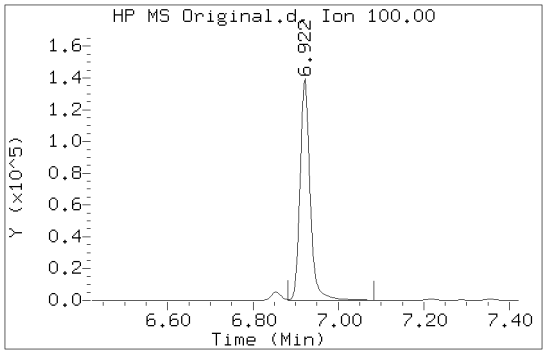
AFTER

MASS
99
AREA
37330
HEIGHT
20784
29-Jun-2024
12:41
s
zaid



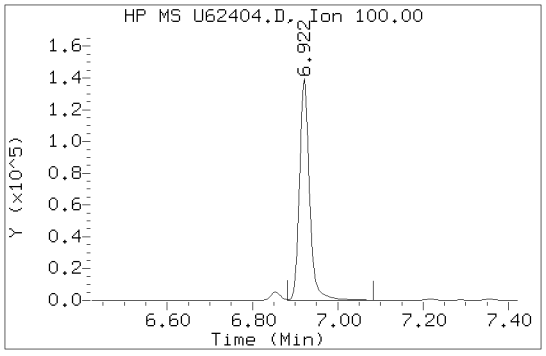
BEFORE

MASS
100
AREA
233432
HEIGHT
139470
29-Jun-2024
12:41
s
zaid



AFTER

MASS
100
AREA
233432
HEIGHT
139470
29-Jun-2024
12:41
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62406.D Page 1
Report Date: 29-Jun-2024 12:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62406.D
Lab Smp Id: VBLKW-240624 Client Smp ID: VBLKW-240624
Inj Date : 24-JUN-2024 13:37
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240624;VBLKW-240624;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240624.b\8260C.m
Meth Date : 29-Jun-2024 12:38 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	231699	50.0000	
$ 30 Dibromofluoromethane	113	4.747	4.748	(0.986)	84922	55.1780	55.17
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	106372	54.1888	54.18
* 36 1,4-Difluorobenzene	114	5.553	5.554	(1.000)	335457	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	301738	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	327222	55.8716	55.87(M)
$ 69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	114953	49.9547	49.95
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	156909	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62406.D

Date : 24-JUN-2024 13:37

Client ID: VBLKW-240624

Instrument: VOA9.i

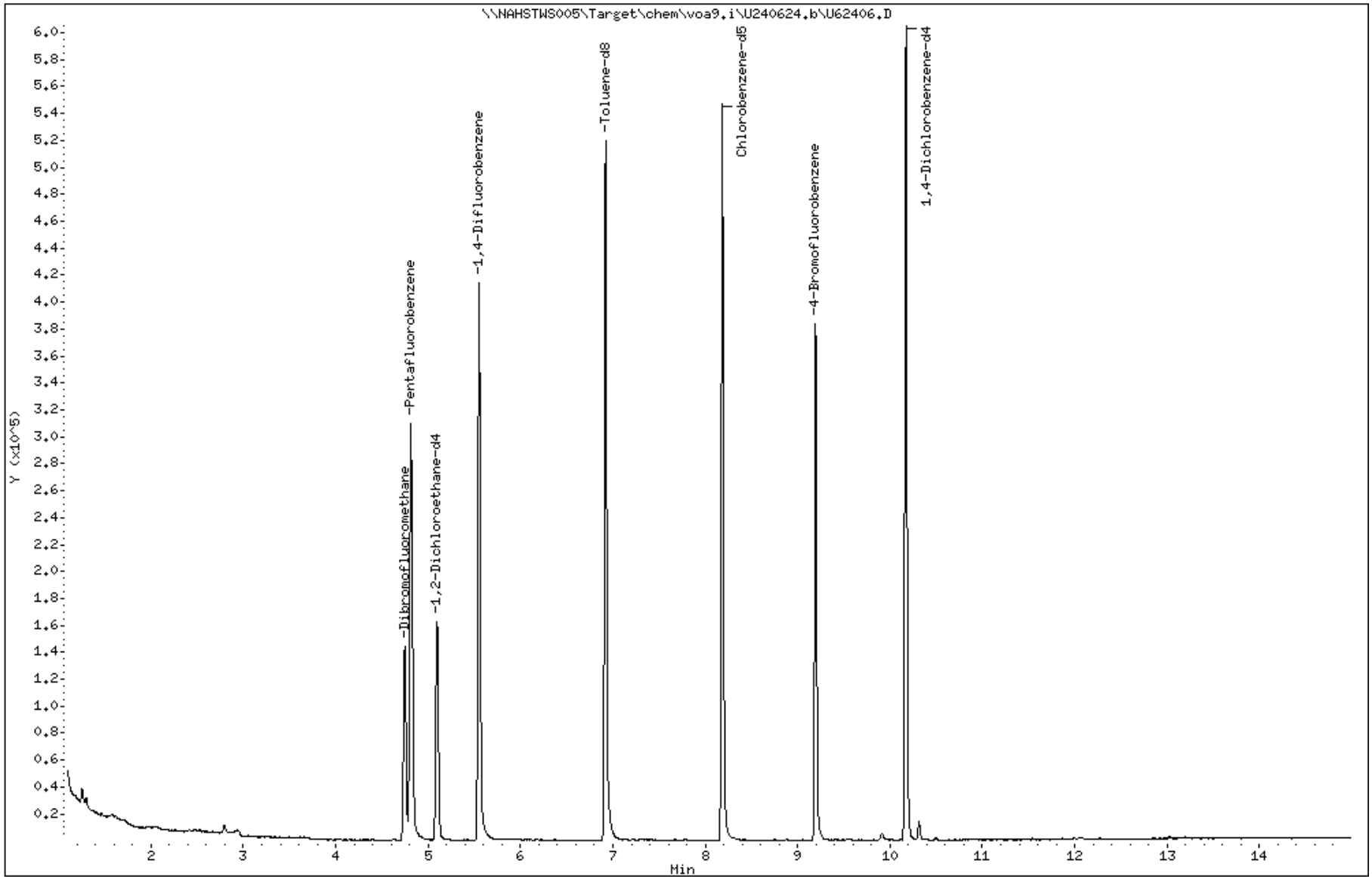
Sample Info: VBLKW-240624;VBLKW-240624;3;;BLANK

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18

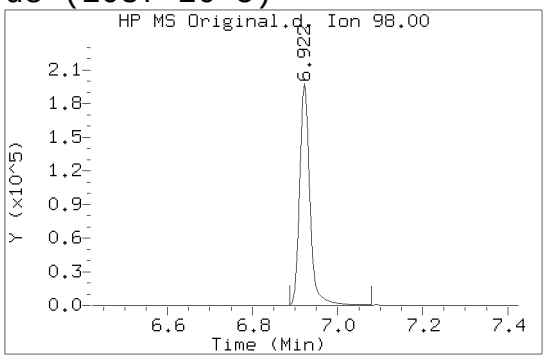


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62406.D
Inj Date : 24-JUN-2024 13:37
InstruID : VOA9.i
LabSampID : VBLKW-240624

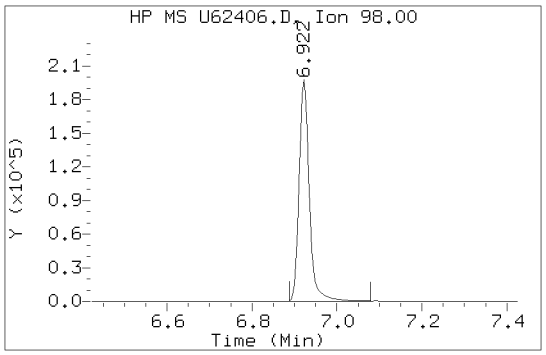
Toluene-d8 (2037-26-5)

Reason Code: MPT

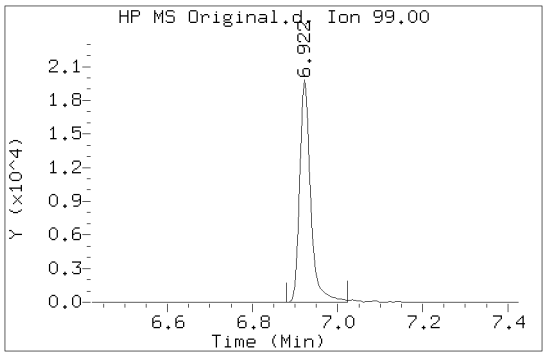
BEFORE
MASS
98
AREA
327222
HEIGHT
197521
29-Jun-2024
12:37
s
zaid



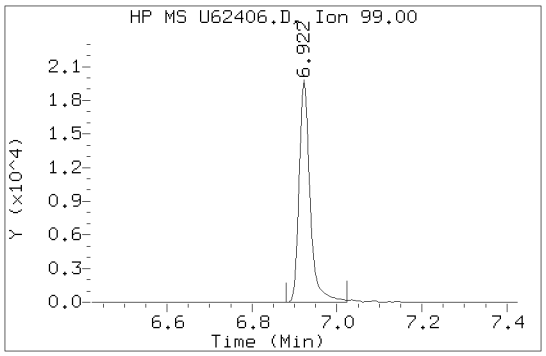
AFTER
MASS
98
AREA
327222
HEIGHT
197521
29-Jun-2024
12:37
s
zaid



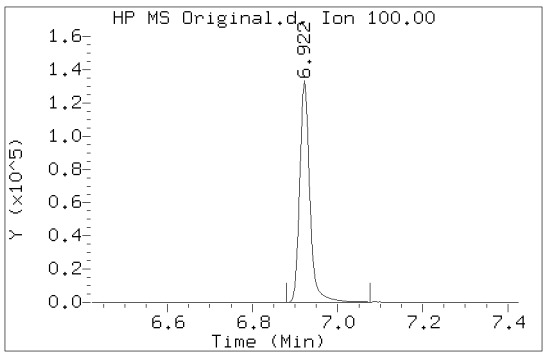
BEFORE
MASS
99
AREA
35329
HEIGHT
19816
29-Jun-2024
12:37
s
zaid



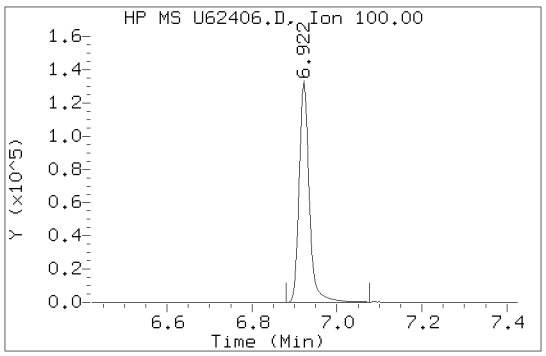
AFTER
MASS
99
AREA
35329
HEIGHT
19816
29-Jun-2024
12:37
s
zaid



BEFORE
MASS
100
AREA
220093
HEIGHT
133440
29-Jun-2024
12:37
s
zaid



AFTER
MASS
100
AREA
220093
HEIGHT
133440
29-Jun-2024
12:37
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62424.D Page 1
Report Date: 10-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62424.D
Lab Smp Id: HS24060781-02
Inj Date : 24-JUN-2024 20:07
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060781-02
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240624.b\8260C.m
Meth Date : 10-Jul-2024 11:37 r.patel   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

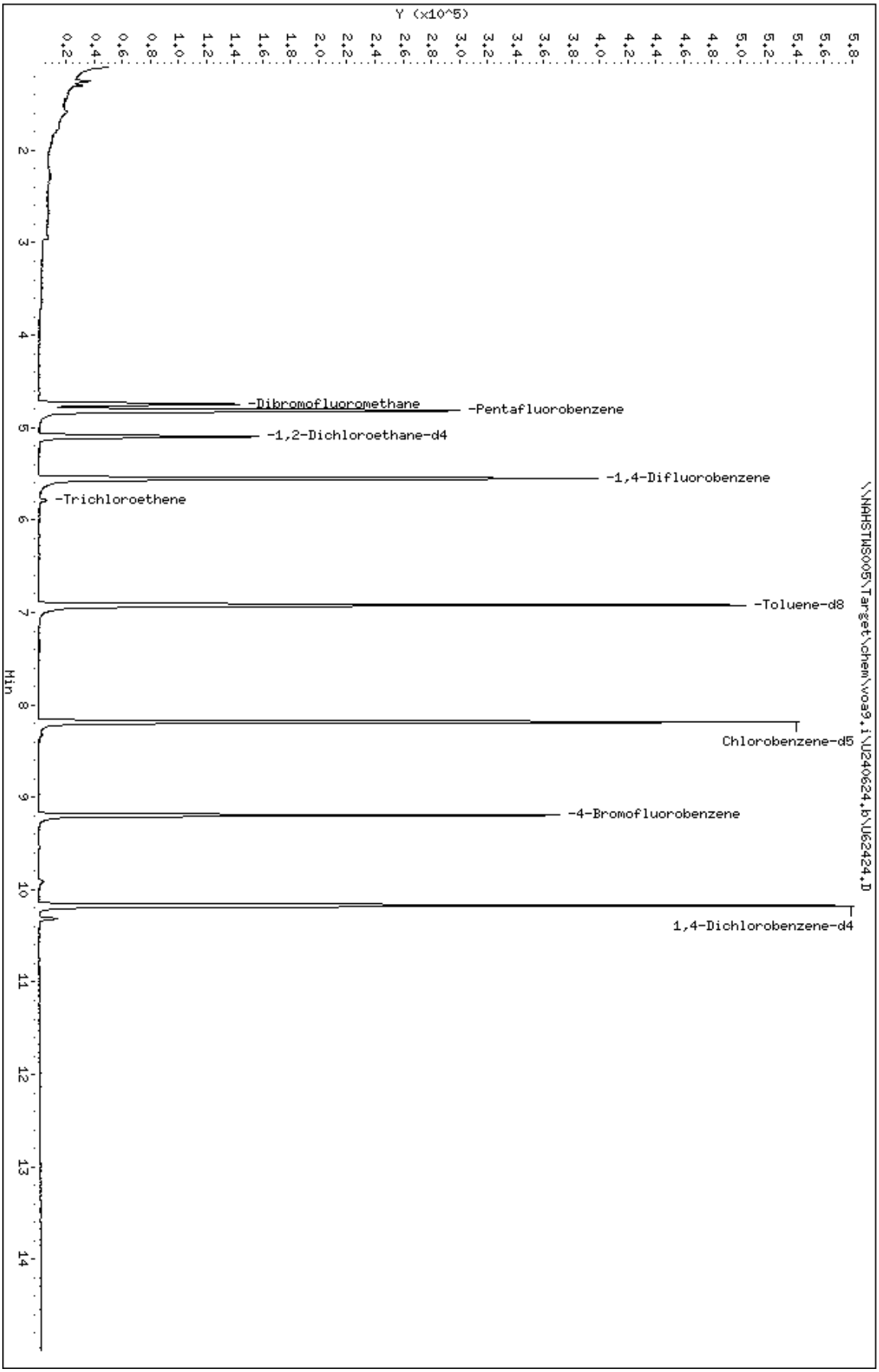
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	222010	50.0000	
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	81960	55.5775	55.57
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	102039	54.2500	54.25
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	322733	50.0000	
	38 Trichloroethene	130	5.786	5.786	(1.042)	1683	1.04412	1.04(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	289508	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	312464	55.6055	55.60
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	109131	49.4280	49.42
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	151341	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\NAHSTWS005\Target\chem\voa9,i\U240624,b\U62424.D
Date : 24-JUN-2024 20:07
Client ID:
Sample Info: HS24060781-02
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9,i
Operator: TS
Column diameter: 0.18
Page 1
Y (x10^5)
Min
\\NAHSTWS005\Target\chem\voa9,i\U240624,b\U62424.D
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Trichloroethene
-Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62424.D Page 2

Date : 24-JUN-2024 20:07

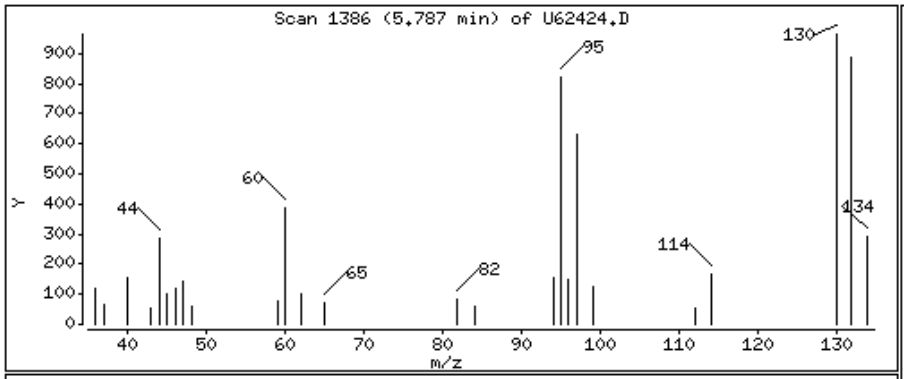
Client ID: Instrument: VOA9.i

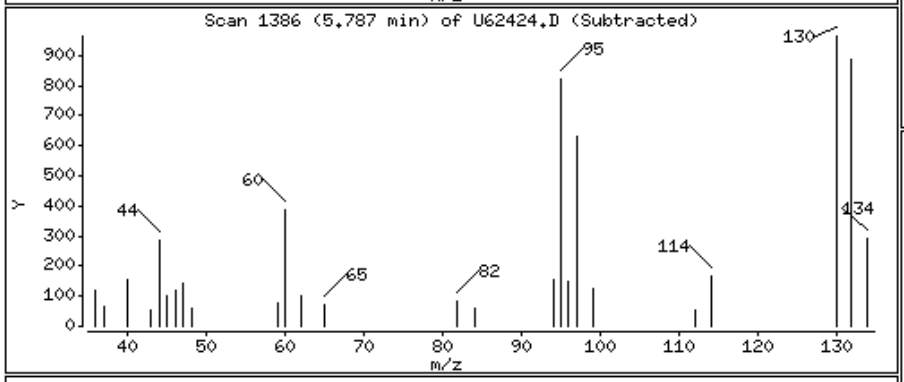
Sample Info: HS24060781-02

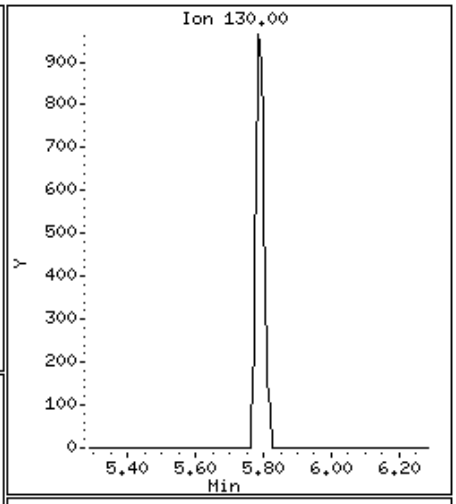
Purge Volume: 5.0 Operator: TS

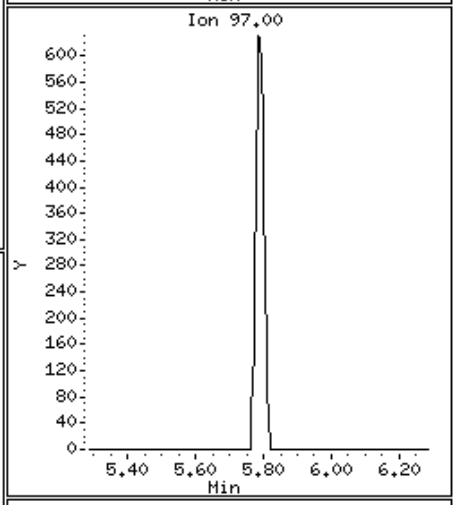
Column phase: DB624 Column diameter: 0.18

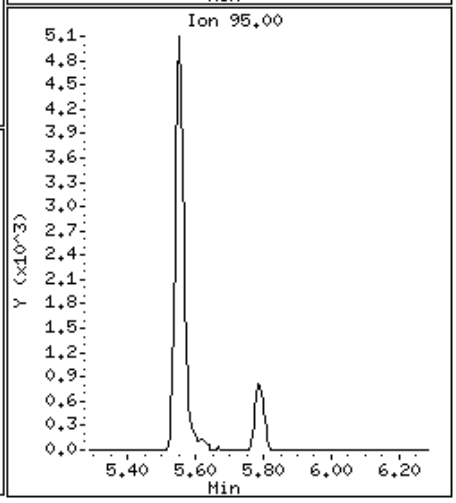
38 Trichloroethene Concentration: 1.04 ug/l











Data File : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62424.D
Inj Date : 24-JUN-2024 20:07
InstruID : VOA9.i
LabSampID : HS24060781-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62425.D Page 1
Report Date: 10-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62425.D
Lab Smp Id: HS24060781-01
Inj Date : 24-JUN-2024 20:29
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060781-01
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240624.b\8260C.m
Meth Date : 10-Jul-2024 11:37 r.patel   Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15   Cal File: U62010.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

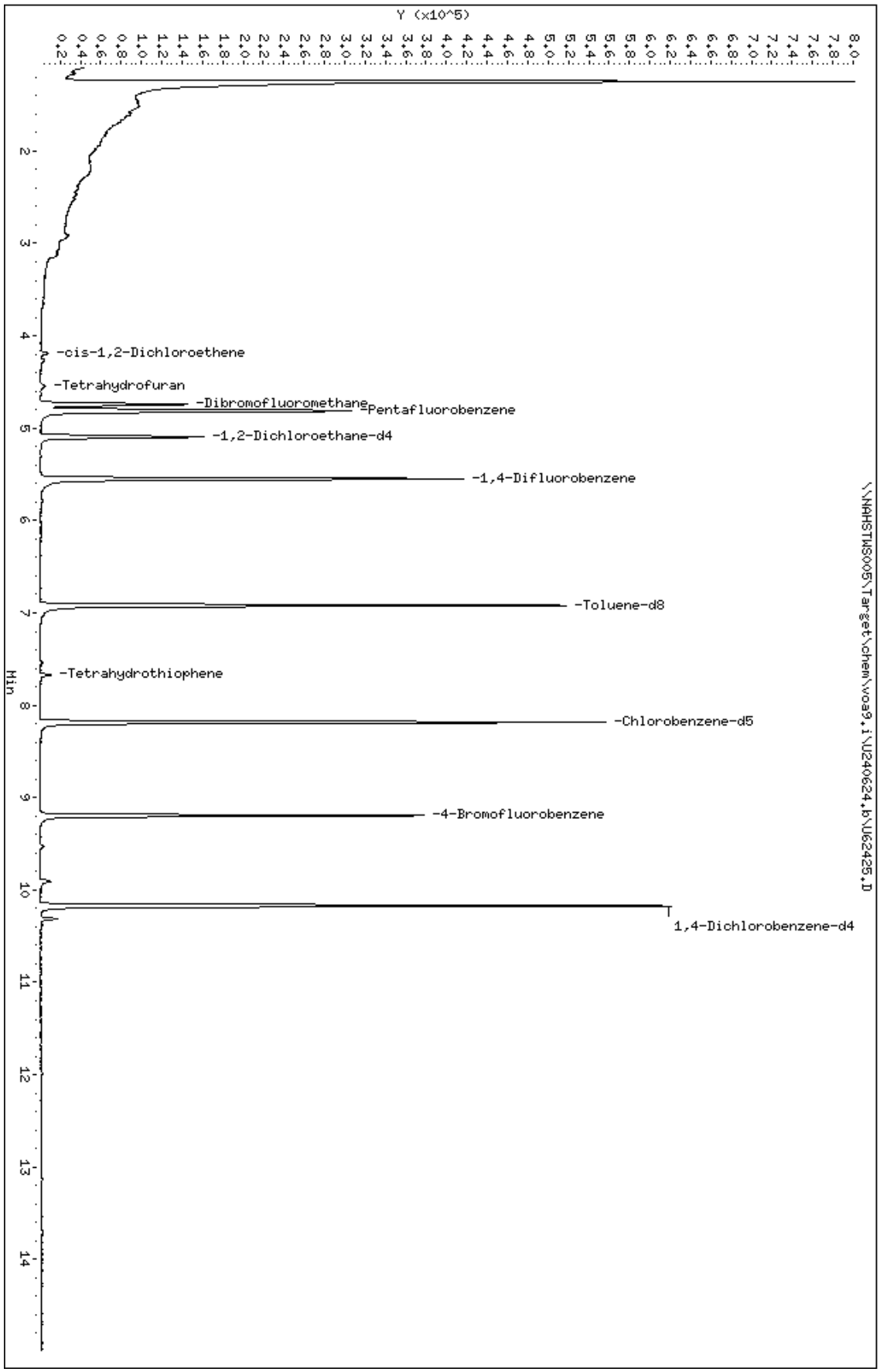
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.811	4.815	(1.000)	225740	50.0000	
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	3392	1.71630	1.71
$	30 Dibromofluoromethane	113	4.744	4.748	(0.986)	83890	55.9463	55.94
$	35 1,2-Dichloroethane-d4	65	5.092	5.096	(1.058)	103799	54.2739	54.27
*	36 1,4-Difluorobenzene	114	5.550	5.554	(1.000)	325655	50.0000	
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	299516	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	318762	54.8309	54.83
$	69 4-Bromofluorobenzene	95	9.193	9.194	(1.123)	112218	49.1279	49.12
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	161706	50.0000	
	142 Tetrahydrofuran	42	4.541	4.538	(0.944)	3087	11.5468	11.54
M	94 1,2-Dichloroethylene (total)	96				3392	1.29302	1.29(a)
	204 Tetrahydrothiophene	60	7.671	7.672	(0.937)	3854	2.26429	2.26(aA)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240624,b\U62425.D
Date : 24-JUN-2024 20:29
Client ID:
Sample Info: HS240607B1-01
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62425.D

Date : 24-JUN-2024 20:29

Client ID:

Instrument: VOA9.i

Sample Info: HS24060781-01

Purge Volume: 5.0

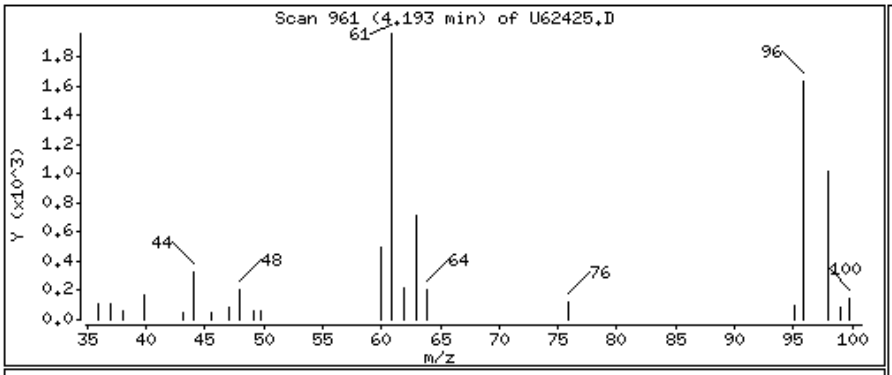
Operator: TS

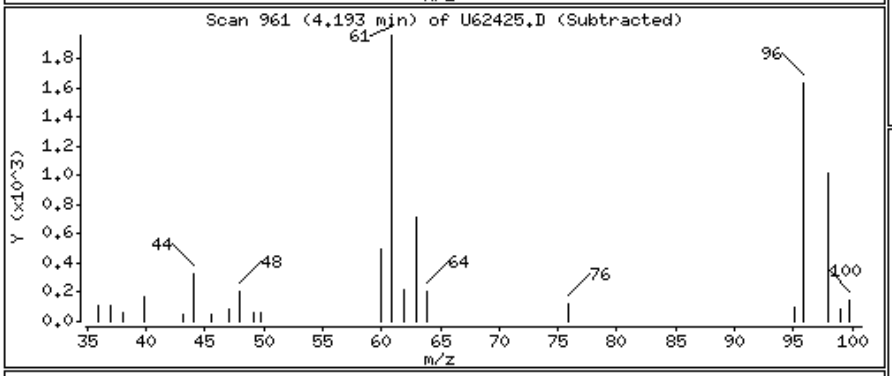
Column phase: DB624

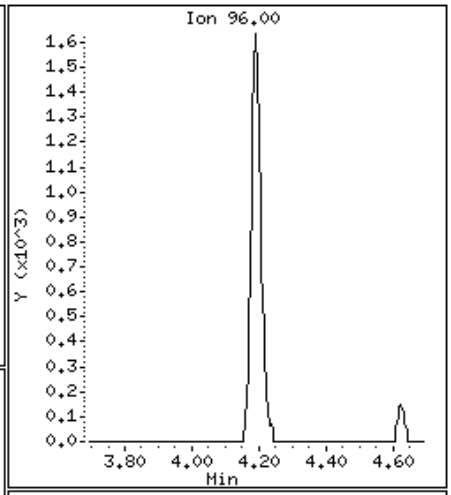
Column diameter: 0.18

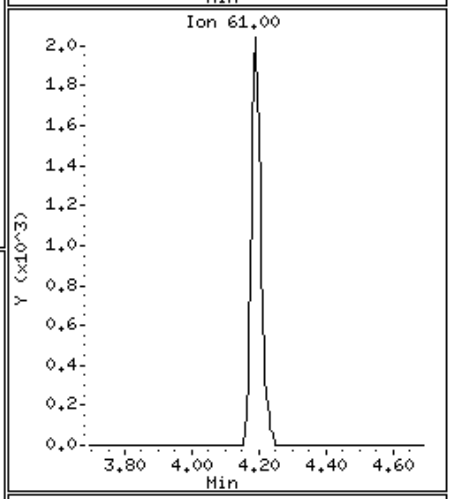
27 cis-1,2-Dichloroethene

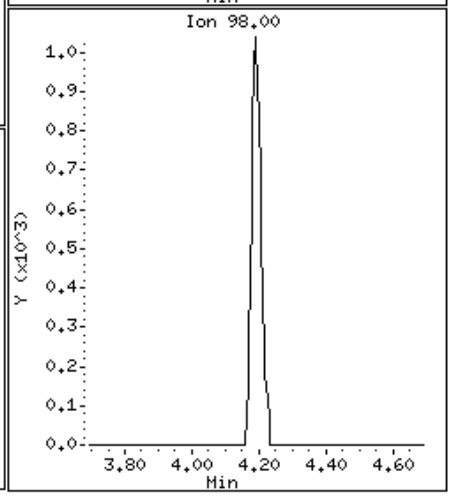
Concentration: 1.71 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62425.D

Date : 24-JUN-2024 20:29

Client ID:

Instrument: VOA9.i

Sample Info: HS24060781-01

Purge Volume: 5.0

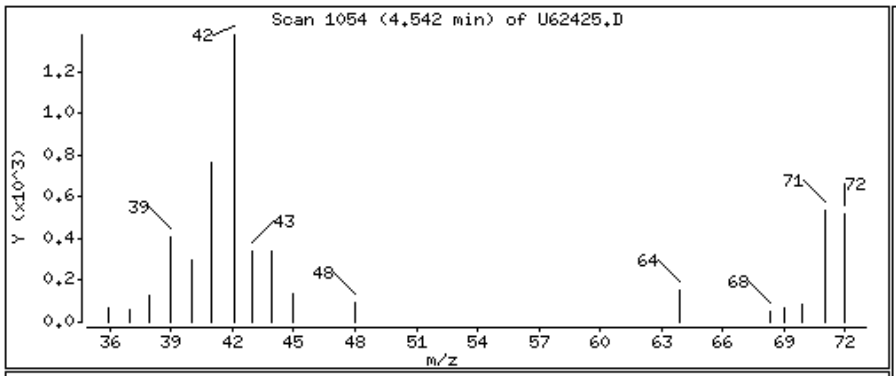
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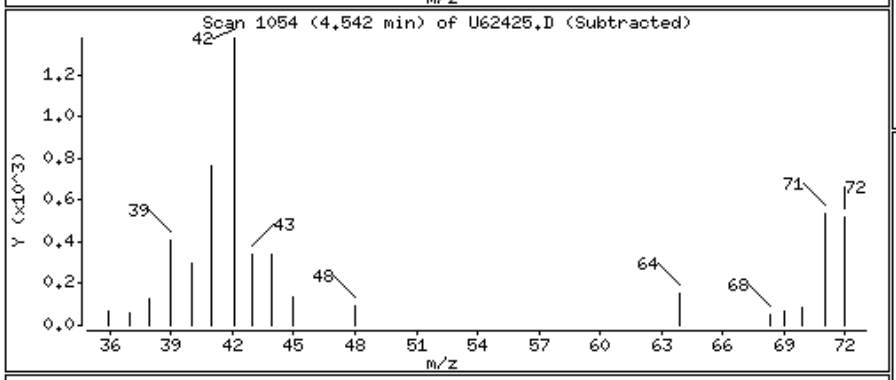
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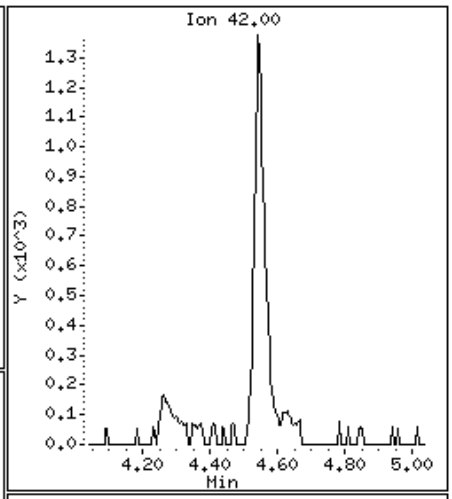
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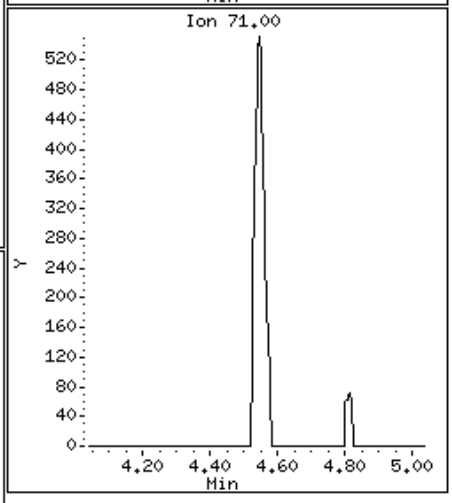
142 Tetrahydrofuran

Concentration: 11.54 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62425.D

Date : 24-JUN-2024 20:29

Client ID:

Instrument: VOA9.i

Sample Info: HS24060781-01

Purge Volume: 5.0

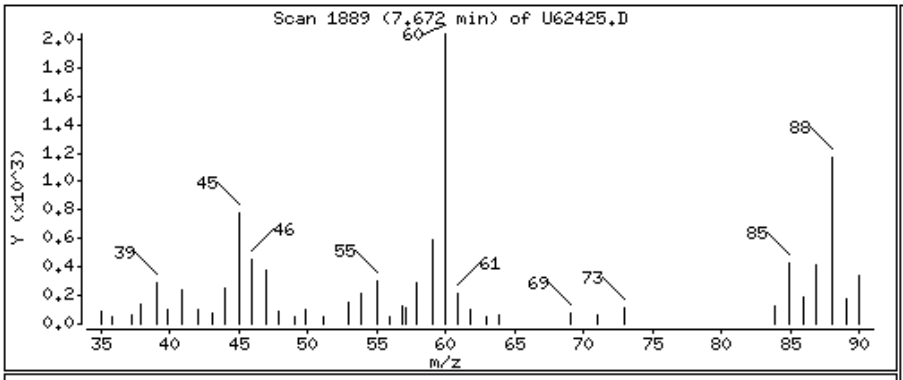
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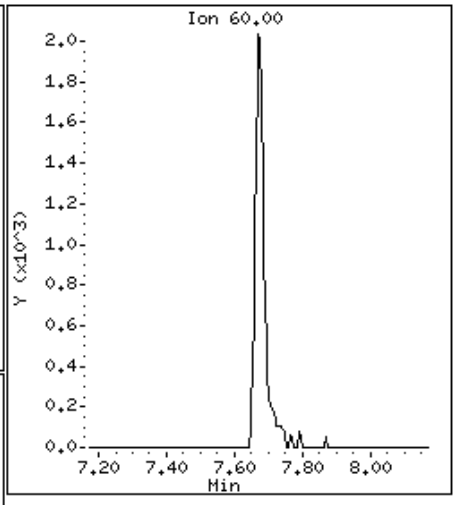
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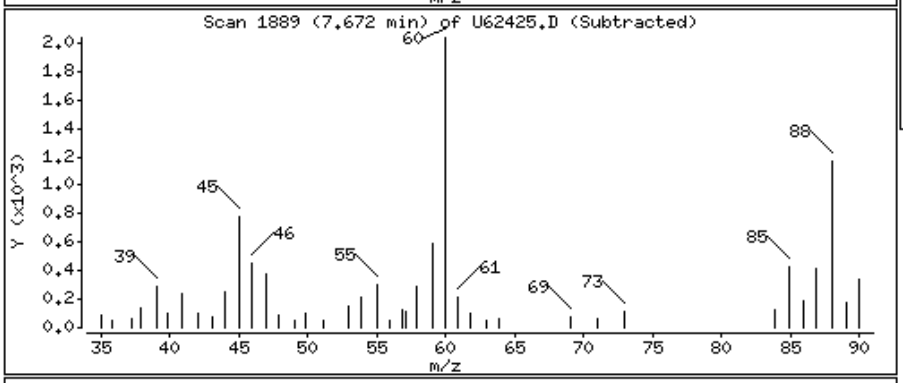
Column diameter: 0.18

204 Tetrahydrothiophene

Concentration: 2.26 ug/l







Data File : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62425.D
Inj Date : 24-JUN-2024 20:29
InstruID : VOA9.i
LabSampID : HS24060781-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62428.D Page 1
Report Date: 10-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62428.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-JUN-2024 21:33
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240624.b\8260C.m
Meth Date : 10-Jul-2024 11:38 VOA9.i Quant Type: ISTD
Cal Date : 20-JUN-2024 14:15 Cal File: U62010.D
Als bottle: 27 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	237576	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	64729	50.0000	38.14
3 Chloromethane	50	1.295	1.295	(0.269)	134155	50.0000	35.33
4 Propionitrile	54	4.336	4.336	(0.900)	100570	500.000	458.15
5 Vinyl Chloride	62	1.378	1.378	(0.286)	84489	50.0000	40.13
6 Bromomethane	94	1.606	1.606	(0.334)	45136	50.0000	57.53
7 Chloroethane	64	1.693	1.693	(0.352)	57909	50.0000	43.49
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	104852	50.0000	46.07
9 Acrolein	56	2.262	2.262	(0.470)	6330	100.000	85.88
10 Acetone	43	2.409	2.409	(0.500)	50337	100.000	81.50
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	59034	50.0000	42.59
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	204999	1000.00	874.06
13 Acetonitrile	39	2.667	2.667	(0.554)	75983	500.000	416.93
14 Allyl Chloride	41	2.671	2.671	(0.555)	180243	50.0000	41.96
15 Iodomethane	142	2.465	2.465	(0.512)	63421	100.000	114.86
16 Acrylonitrile	53	3.065	3.065	(0.636)	50104	100.000	86.37
17 Methylene Chloride	84	2.791	2.791	(0.580)	75677	50.0000	45.21
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	173387	50.0000	42.49
19 Carbon Disulfide	76	2.517	2.517	(0.523)	328968	100.000	86.13
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	66382	50.0000	45.71

21 Vinyl Acetate	43	4.339	4.339 (0.901)	77568	100.000	93.59
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	122660	50.0000	44.53

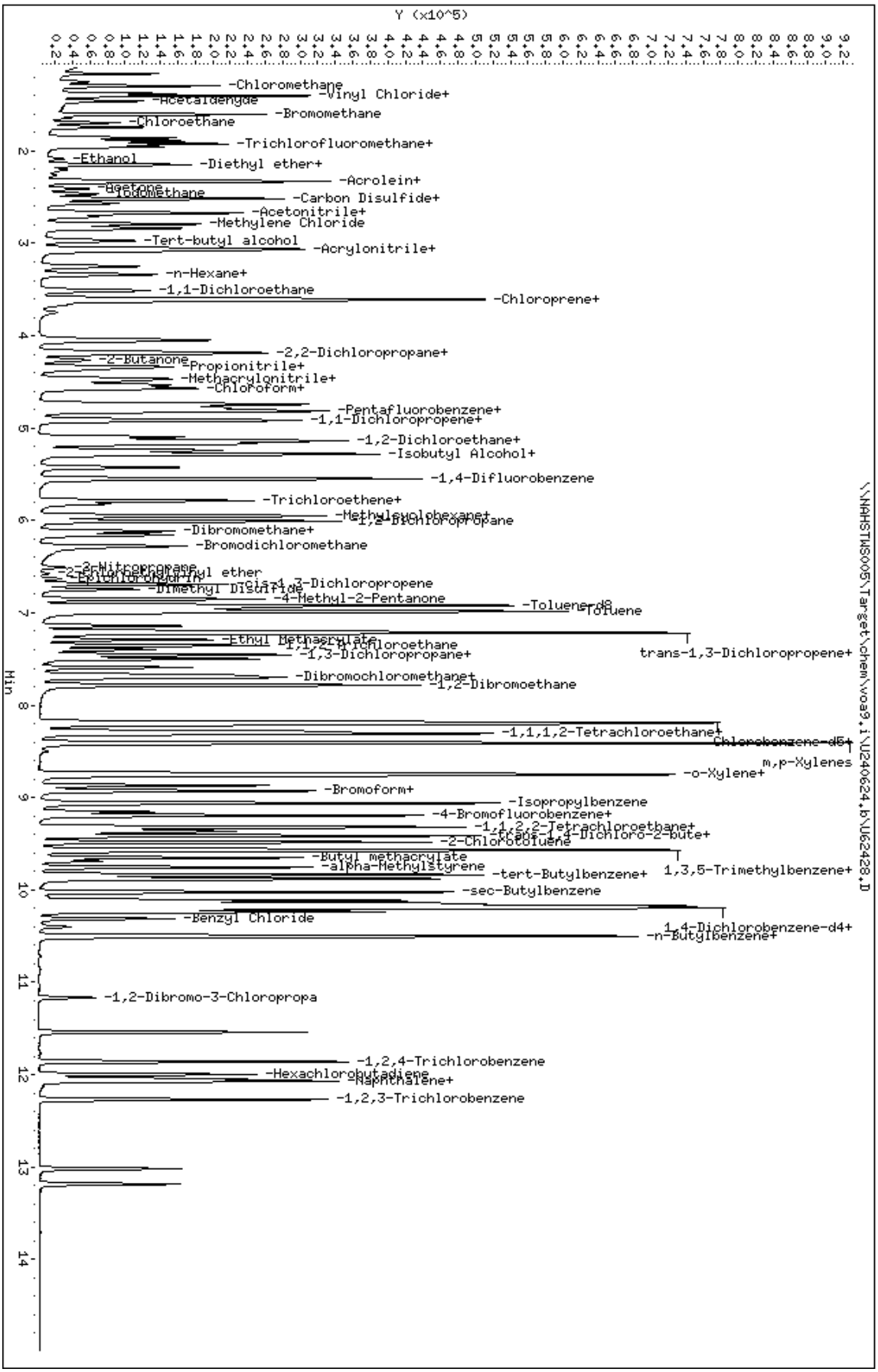
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.605	3.605	(0.749)	99126	50.0000	42.02
	24 2-Butanone	43	4.261	4.261	(0.885)	73651	100.000	89.45
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	44535	50.0000	42.93(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	90953	50.0000	41.65
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	78754	50.0000	45.82
	28 Chloroform	83	4.568	4.568	(0.949)	132409	50.0000	47.09
	29 Bromochloromethane	128	4.467	4.467	(0.928)	41565	50.0000	43.70
$	30 Dibromofluoromethane	113	4.744	4.744	(0.985)	88368	50.0000	55.99
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	105086	50.0000	47.64
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	92335	50.0000	45.13
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	105315	50.0000	48.38
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	84439	50.0000	49.24
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	103787	50.0000	51.56
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	335344	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	295789	50.0000	42.85
	38 Trichloroethene	130	5.786	5.786	(1.043)	77366	50.0000	46.19
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	92644	50.0000	47.49
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	28505	50.0000	45.84
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	4707	100.000	101.02
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	80328	50.0000	43.94
	43 2-Nitropropane	43	6.506	6.506	(1.351)	17092	50.0000	45.50
	44 Dibromomethane	93	6.116	6.116	(1.102)	48112	50.0000	45.09
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	152677	100.000	90.00
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	107692	50.0000	47.25
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	307797	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	340941	50.0000	57.06
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	88910	50.0000	41.74
	50 Toluene	91	6.978	6.978	(0.853)	321472	50.0000	45.87
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	88837	50.0000	43.31
	52 2-Hexanone	43	7.214	7.214	(0.881)	99916	100.000	87.57
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	60930	50.0000	44.96
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	127936	50.0000	44.92
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	73824	50.0000	52.21
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	62998	50.0000	48.03
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	70727	50.0000	47.28
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	55067	50.0000	42.54
	59 Chlorobenzene	112	8.208	8.208	(1.003)	206618	50.0000	48.47
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	72057	50.0000	47.85
	61 Ethylbenzene	106	8.305	8.305	(1.015)	102049	50.0000	47.05
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	259390	100.000	100.17
	63 o-Xylene	106	8.748	8.748	(1.069)	128729	50.0000	50.44
	64 Styrene	104	8.763	8.763	(1.071)	212891	50.0000	49.90
	66 Bromoform	173	8.920	8.920	(1.090)	46790	50.0000	48.74
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	317824	50.0000	50.20
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	102531	50.0000	47.45
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	127426	50.0000	54.28
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	175099	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	96755	50.0000	43.97
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	17327	50.0000	40.28
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	368099	50.0000	48.61
	74 Bromobenzene	156	9.318	9.318	(0.916)	92753	50.0000	45.08
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	252009	50.0000	43.88

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	229122	50.0000	44.71
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	260958	50.0000	44.87

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	228421	50.0000	49.49
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	241368	50.0000	43.31
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	299241	50.0000	48.68
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	256999	50.0000	43.61
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	165436	50.0000	43.70
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	171471	50.0000	47.27
86	Benzyl Chloride	91	10.311	10.311	(1.260)	97985	50.0000	33.15
87	n-Butylbenzene	91	10.495	10.495	(1.032)	219967	50.0000	42.02
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	163311	50.0000	43.33
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	13000	50.0000	48.19
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	105148	50.0000	46.11
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	45960	50.0000	45.45
92	Naphthalene	128	12.069	12.069	(1.186)	236331	50.0000	44.64
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	98453	50.0000	47.15
146	Methyl acetate	43	2.712	2.712	(0.563)	62014	50.0000	50.48
138	Freon TF	101	2.330	2.330	(0.484)	60081	50.0000	47.07
141	Cyclohexane	56	4.782	4.782	(0.993)	95832	50.0000	41.67
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	25285	100.000	89.86
147	Methylcyclohexane	55	5.944	5.944	(1.071)	161883	50.0000	45.46
135	1,4-Dioxane	88	6.165	6.165	(1.280)	16465	1000.00	917.75
132	n-Butanol	56	5.824	5.824	(1.209)	39172	1000.00	908.04
136	n-Hexane	57	3.338	3.338	(0.693)	63398	50.0000	41.61
139	Diethyl ether	59	2.143	2.143	(0.445)	48707	50.0000	42.13
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	120784	1000.00	886.85
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	94131	1000.00	898.39
156	Diisopropyl ether	45	3.620	3.620	(0.752)	216061	50.0000	37.70
162	Butyl acrylate	55	8.733	8.733	(1.067)	116800	50.0000	41.22
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	310314	50.0000	40.93
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	211477	50.0000	42.22
167	Ethanol	45	2.086	2.086	(0.433)	17704	1000.00	877.54
172	tert-Butyl formate	59	5.239	5.239	(1.088)	122861	100.000	103.87
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	396843	1000.00	858.08
140	1,3-Butadiene	54	1.400	1.400	(0.291)	82647	50.0000	40.51
182	Epichlorohydrin	57	6.630	6.630	(1.195)	10590	200.000	182.59
M 94	1,2-Dichloroethylene (total)	96				145136	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	87697	50.0000	43.70
131	Methyl Acrylate	55	4.365	4.365	(0.907)	80462	50.0000	40.86
189	n-Butyl acetate	43	7.706	7.706	(0.941)	112894	50.0000	46.00
134	Cyclohexanone	55	9.153	9.153	(0.900)	48742	1000.00	541.47
185	Isoprene	39	2.150	2.150	(0.447)	14400	50.0000	41.74
188	Isopropyl acetate	43	5.284	5.284	(0.952)	205536	50.0000	45.83
150	Allyl alcohol	57	3.338	3.338	(0.693)	63398	1000.00	832.35
194	Acetaldehyde	44	1.460	1.460	(0.303)	115540	200.000	290.93
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	45552	50.0000	41.22
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	161883	50.0000	43.31
163	Butyl methacrylate	41	9.647	9.647	(0.948)	76685	50.0000	43.12
159	Propylene oxide	43	2.199	2.199	(0.457)	8689	100.000	80.05
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	73629	50.0000	39.48
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	76972	50.0000	44.00(A)
205	sec-Butyl Ether	57	7.214	7.214	(0.881)	81326	50.0000	23.64(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	119968	50.0000	44.05
206	2-Chloropropene	41	1.921	1.921	(0.399)	130098	50.0000	53.34(A)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62428.D
Date : 24-JUN-2024 21:33
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240624.b\U62428.D
Inj Date : 24-JUN-2024 21:33
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

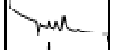
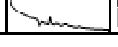
HS24060781 Wetchem 9056_anions_W

ALS WO# HS24060781

Sequence: 061724
Last Update Operator: ALSHS.NoUser

CD	Name	Comment	Type	Position	Dilution	Level	Instrument Method
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	STD2		Calibratio	RA2	1.00	2	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD3		Calibratio	RA3	1.00	3	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD4		Calibratio	RA4	1.00	4	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD5		Calibratio	RA5	1.00	5	Anions Program ISO37mM 150mm short 0.4 Constant current
	STD6		Calibratio	RA6	1.00	6	Anions Program ISO37mM 150mm short 0.4 Constant current
	ICV		Unknown	RA7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	ICB		Unknown	RA8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK		Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS		Unknown	R2	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
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	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24060781-01		Unknown	GA1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24060781-01DF20		Unknown	GA2	20.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24060406-01MS		Unknown	GA4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24060406-01MSD		Unknown	GA5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV		Unknown	R1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCV1		Unknown	R3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	CCB		Unknown	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 061724
Last Update Operator: ALSHS.NoUser

Processing Method	CD	Name	me	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	6/10/2024 8:22:13 AM -0
Anions Processing Method ISO		STD2	5.0	Finished	6/10/2024 8:33:51 AM -0
Anions Processing Method ISO		STD3	5.0	Finished	6/10/2024 8:45:28 AM -0
Anions Processing Method ISO		STD4	5.0	Finished	6/10/2024 8:51:17 AM -0
Anions Processing Method ISO		STD5	5.0	Finished	6/10/2024 8:57:06 AM -0
Anions Processing Method ISO		STD6	5.0	Finished	6/10/2024 9:02:54 AM -0
Anions Processing Method ISO		ICV	5.0	Finished	6/10/2024 9:44:28 AM -0
Anions Processing Method ISO		ICB	5.0	Finished	6/10/2024 10:02:05 AM -
Anions Processing Method ISO		CCV1	5.0	Finished	6/17/2024 1:59:09 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	6/17/2024 2:10:59 PM -0
Anions Processing Method ISO		MBLK	5.0	Finished	6/17/2024 2:22:38 PM -0
Anions Processing Method ISO		LCS	5.0	Finished	6/17/2024 2:34:28 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	6/17/2024 3:27:02 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	6/17/2024 3:39:03 PM -0
Anions Processing Method ISO		HS24060781-01	5.0	Finished	6/17/2024 4:37:15 PM -0
Anions Processing Method ISO		HS24060781-01DF20	5.0	Finished	6/17/2024 4:43:04 PM -0
Anions Processing Method ISO		CCV1	5.0	Finished	6/17/2024 4:48:53 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	6/17/2024 5:00:42 PM -0
Anions Processing Method ISO		HS24060406-01MS	5.0	Finished	6/17/2024 5:18:21 PM -0
Anions Processing Method ISO		HS24060406-01MSD	5.0	Finished	6/17/2024 5:24:10 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	6/17/2024 6:11:17 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	6/17/2024 6:23:06 PM -0
Anions Processing Method ISO		CCV1	5.0	Finished	6/17/2024 7:27:53 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	6/17/2024 7:39:42 PM -0

Sequence: 061724
Injection #6: STD6

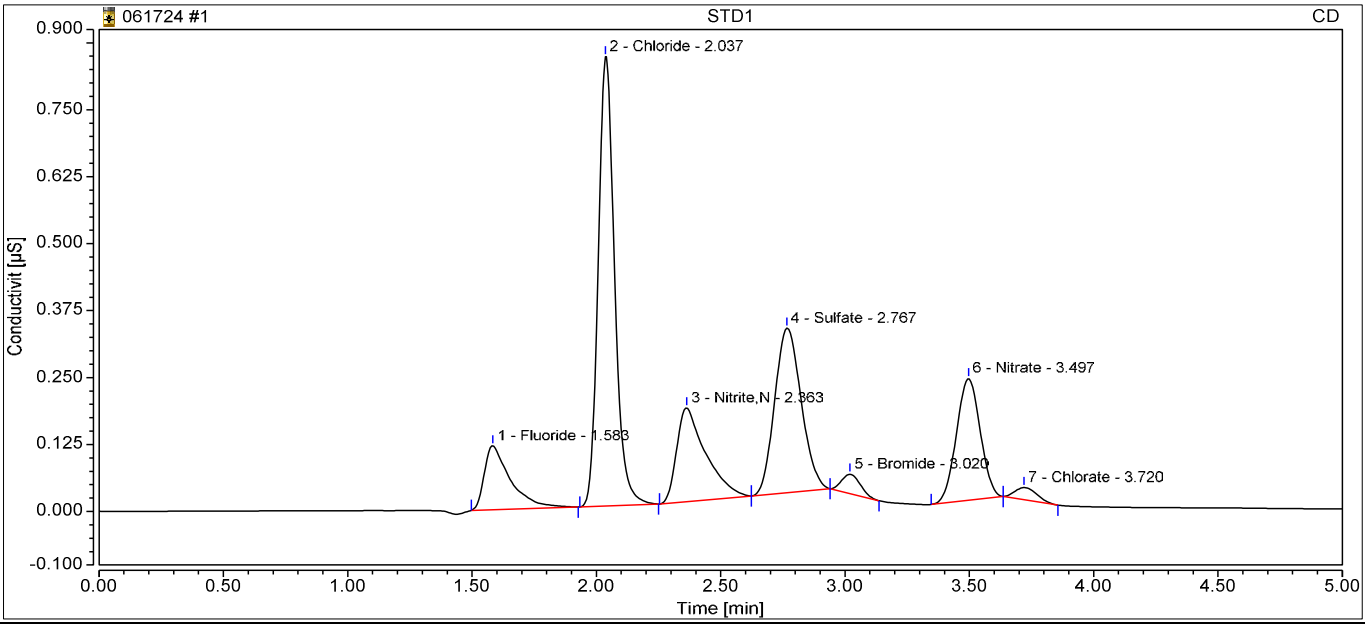
Calibration

Peak No.	Peak Name	Cal.Type	Eval.Type	Number of Points	Rel.Std.Dev. %	Coeff.of Determination	C0 (Offset)	C1 (Slope)	C2 (Curve)
1	***Fluoride***	***Quad, WithOffset, 1/A***	***Area***	***6***	***19.5716***	***0.99876***	***-0.0087***	***0.1958***	***-0.0001***
2	Chloride	Lin, WithOffset, 1/A	Area	6	9.3788	0.99956	-0.0102	0.1449	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	10.6184	0.99954	-0.0090	0.3150	-0.0029
4	Sulfate	Lin, WithOffset, 1/A	Area	6	30.6894	0.99591	-0.0187	0.0900	0.0000
5	Bromide	Quad, WithOffset, 1/A	Area	6	11.3268	0.99966	0.0004	0.0262	0.0009
6	Nitrate	Lin, WithOffset, 1/A	Area	6	11.0178	0.99945	-0.0112	0.3309	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	6	13.8356	0.99934	-0.0013	0.0328	-0.0001
n.a.	Phosphate	Lin, WithOffset, 1/A	Area	0	n.a.	n.a.	n.a.	n.a.	n.a.
Maximum					**30.6894**	0.99966			
Minimum					9.3788	**0.99591**			

1 STD1

Sample Name:	**STD1**	*Injection Volume:*	**5.00**
Vial Number:	**RA1**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/10/2024 08:22**	*Sample Weight:*	**1.0000**

Run Time:

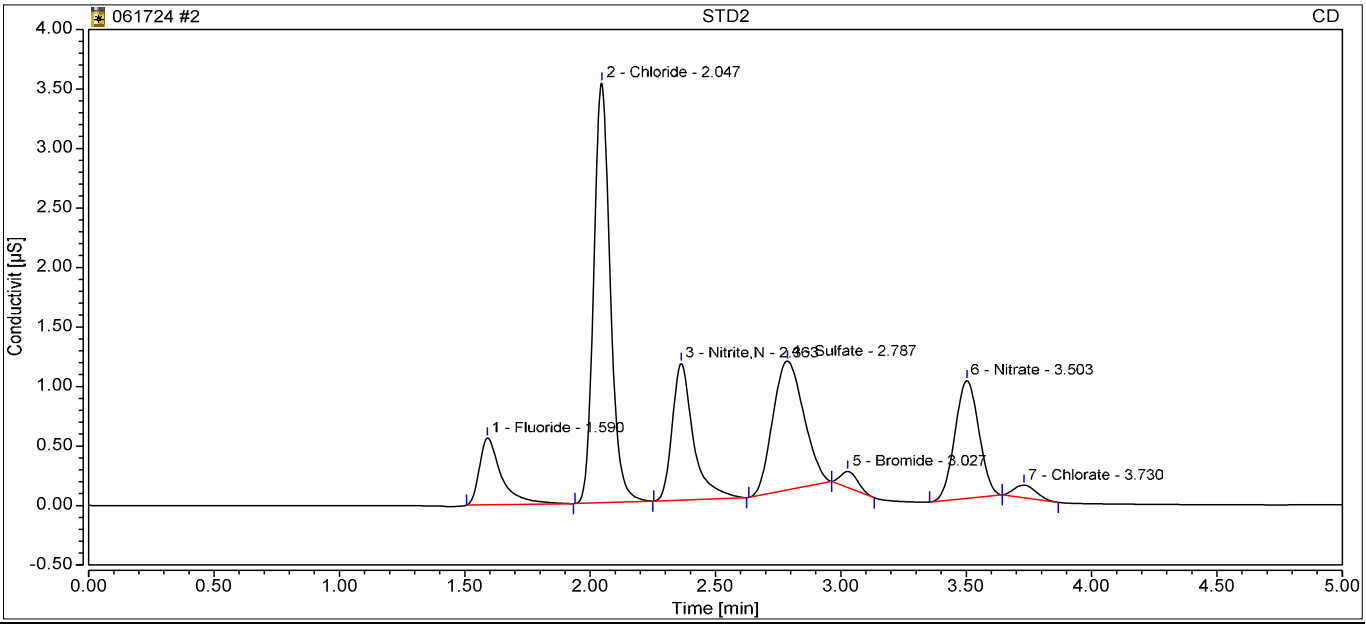


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.58	Fluoride	BMB	0.015	0.1190	0.1190	1.0000
2	2.04	Chloride	BMB	0.064	0.5120	0.5120	1.0000
3	2.36	Nitrite,N	BMB	0.024	0.1035	0.1035	1.0000
4	2.77	Sulfate	BMB	0.038	0.6298	0.6298	1.0000
5	3.02	Bromide	BMB	0.003	0.1055	0.1055	1.0000
6	3.50	Nitrate	BMB	0.025	0.1103	0.1103	1.0000
7	3.72	Chlorate	BMB	0.002	0.1110	0.1110	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.171**		**1.69**	

2 STD2			
Sample Name:	**STD2**	*Injection Volume:*	**5.00**
Vial Number:	**RA2**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/10/2024 08:33**	*Sample Weight:*	**1.0000**

Run Time:



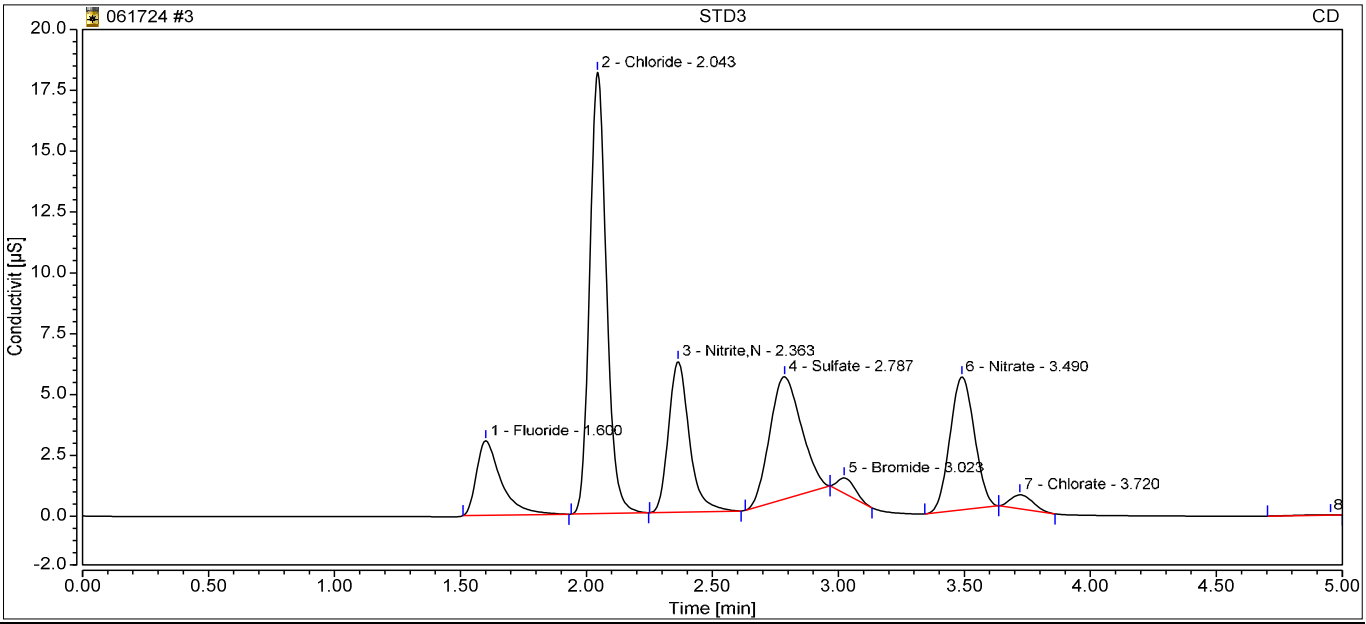
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.057	0.3374	0.3374	1.0000
2	2.05	Chloride	BMB	0.269	1.9284	1.9284	1.0000
3	2.36	Nitrite,N	BMB	0.112	0.3852	0.3852	1.0000
4	2.79	Sulfate	BMB	0.155	1.9264	1.9264	1.0000
5	3.03	Bromide	BMB	0.011	0.3972	0.3972	1.0000
6	3.50	Nitrate	BMB	0.110	0.3652	0.3652	1.0000
7	3.73	Chlorate	BMB	0.011	0.3668	0.3668	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.724**		**5.71**	

3 STD3

Sample Name:	**STD3**	*Injection Volume:*	**5.00**
Vial Number:	**RA3**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/10/2024 08:45**	*Sample Weight:*	**1.0000**

Run Time:



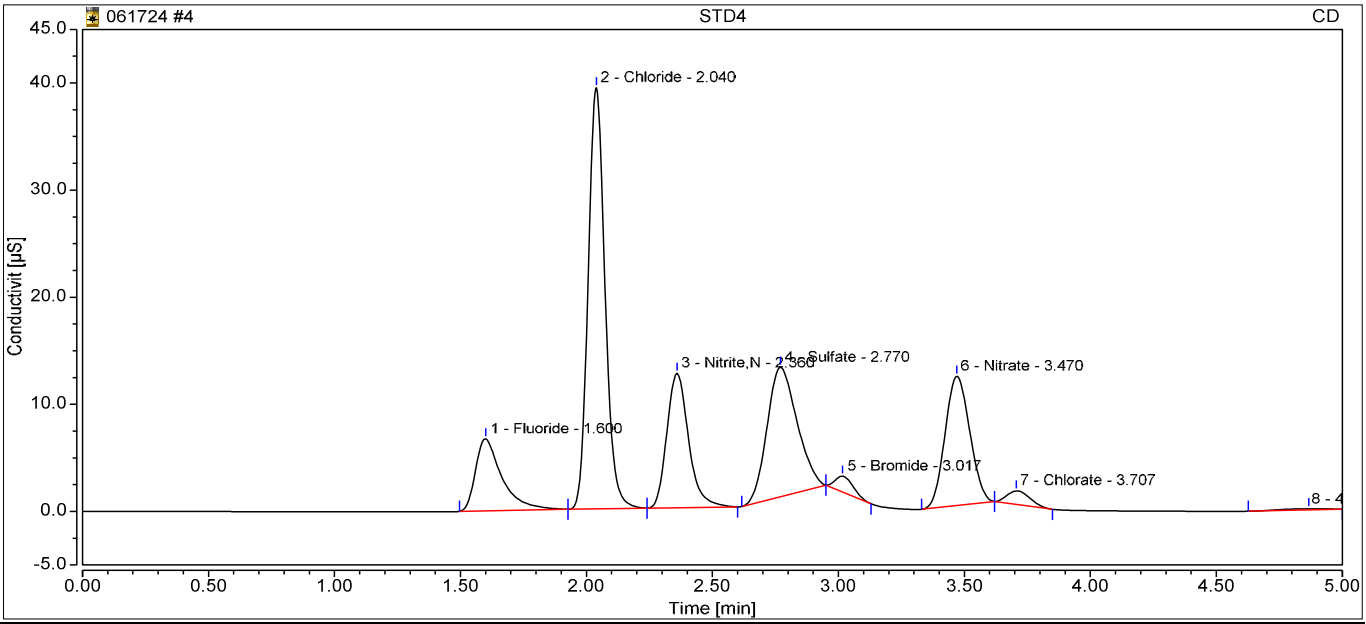
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.347	1.8192	1.8192	1.0000
2	2.04	Chloride	BMB	1.396	9.7030	9.7030	1.0000
3	2.36	Nitrite,N	BMB	0.592	1.9429	1.9429	1.0000
4	2.79	Sulfate	BMB	0.730	8.3126	8.3126	1.0000
5	3.02	Bromide	BMB	0.051	1.8316	1.8316	1.0000
6	3.49	Nitrate	BMB	0.615	1.8931	1.8931	1.0000
7	3.72	Chlorate	BMB	0.060	1.8595	1.8595	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**3.791**		**27.36**	

4 STD4

Sample Name:	**STD4**	*Injection Volume:*	**5.00**
Vial Number:	**RA4**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/10/2024 08:51**	*Sample Weight:*	**1.0000**

Run Time:



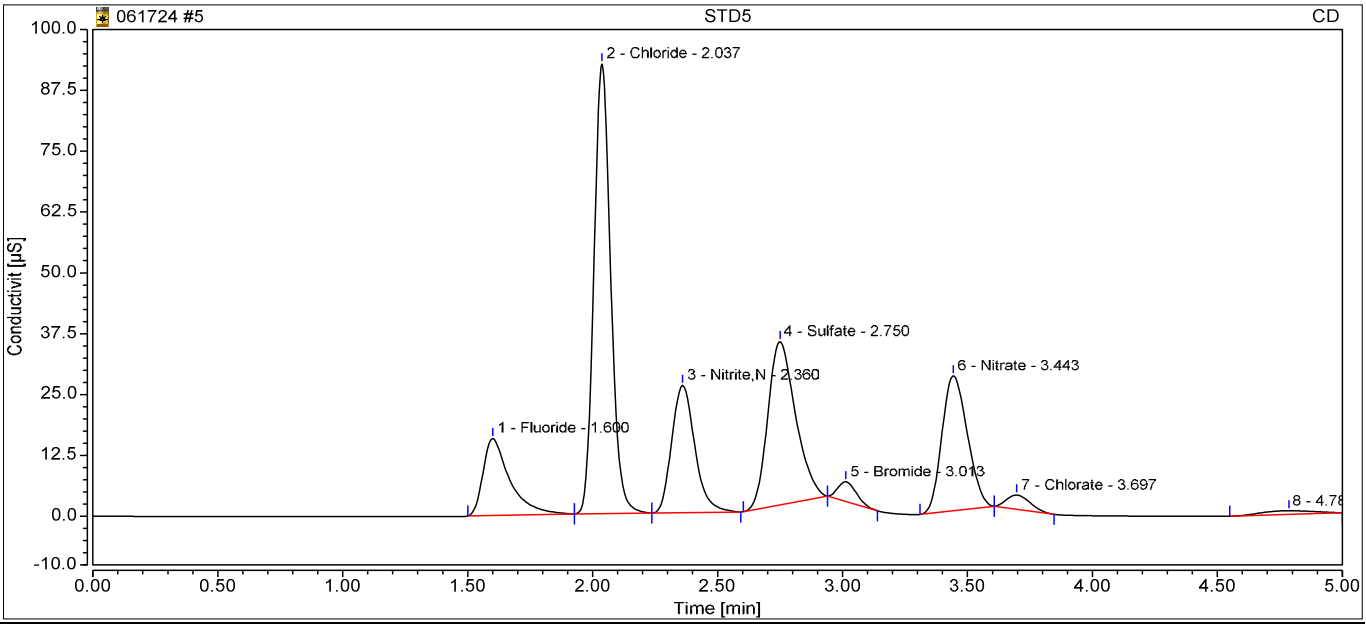
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.814	4.2112	4.2112	1.0000
2	2.04	Chloride	BMB	3.043	21.0692	21.0692	1.0000
3	2.36	Nitrite,N	BMB	1.258	4.1835	4.1835	1.0000
4	2.77	Sulfate	BMB	1.664	18.6880	18.6880	1.0000
5	3.02	Bromide	BMB	0.123	4.1358	4.1358	1.0000
6	3.47	Nitrate	BMB	1.372	4.1785	4.1785	1.0000
7	3.71	Chlorate	BMB	0.134	4.1704	4.1704	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.408**		**60.64**	

5 STD5

Sample Name:	**STD5**	*Injection Volume:*	**5.00**
Vial Number:	**RA5**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/10/2024 08:57**	*Sample Weight:*	**1.0000**

Run Time:



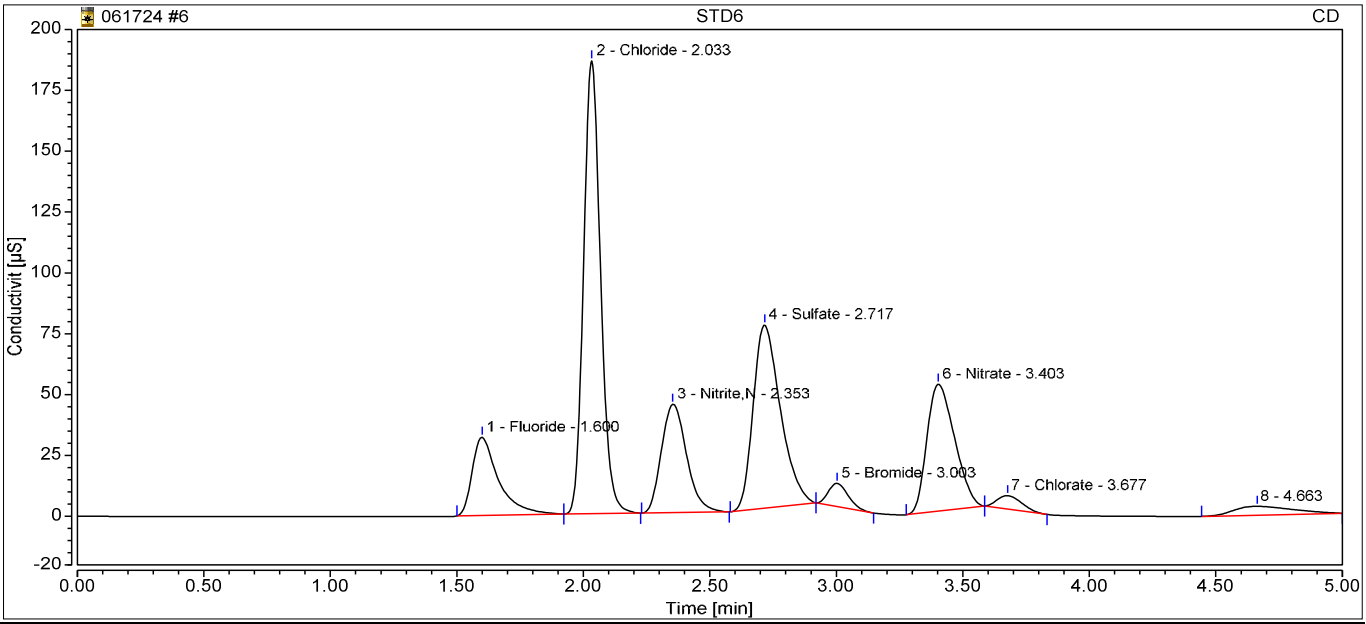
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	1.957	10.0736	10.0736	1.0000
2	2.04	Chloride	BMB	7.166	49.5272	49.5272	1.0000
3	2.36	Nitrite,N	BMB	2.804	9.8161	9.8161	1.0000
4	2.75	Sulfate	BMB	4.322	48.2165	48.2165	1.0000
5	3.01	Bromide	BMB	0.350	10.0368	10.0368	1.0000
6	3.44	Nitrate	BMB	3.270	9.9147	9.9147	1.0000
7	3.70	Chlorate	BMB	0.321	10.0275	10.0275	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**20.189**		**147.61**	

6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**5.00**
Vial Number:	**RA6**	*Channel:*	**CD**
Sample Type:	**Calibration Standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/10/2024 09:02**	*Sample Weight:*	**1.0000**

Run Time:



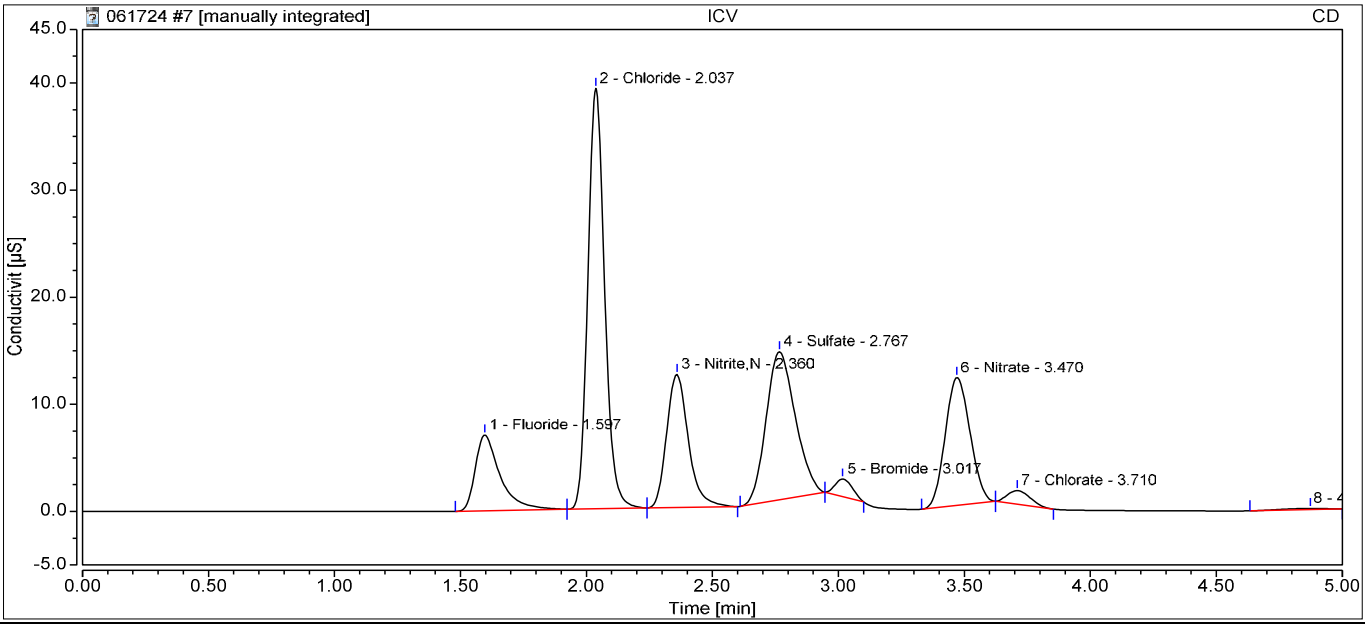
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	3.869	19.9398	19.9398	1.0000
2	2.03	Chloride	BMB	14.445	99.7602	99.7602	1.0000
3	2.35	Nitrite,N	BMB	5.148	20.0745	20.0745	1.0000
4	2.72	Sulfate	BMB	9.408	104.7267	104.7267	1.0000
5	3.00	Bromide	BMB	0.865	19.9801	19.9801	1.0000
6	3.40	Nitrate	BMB	6.620	20.0383	20.0383	1.0000
7	3.68	Chlorate	BMB	0.625	19.9647	19.9647	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**40.979**		**304.48**	

7 ICV

Sample Name:	**ICV**	*Injection Volume:*	**5.00**
Vial Number:	**RA7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/10/2024 09:44**	*Sample Weight:*	**1.0000**

Run Time:



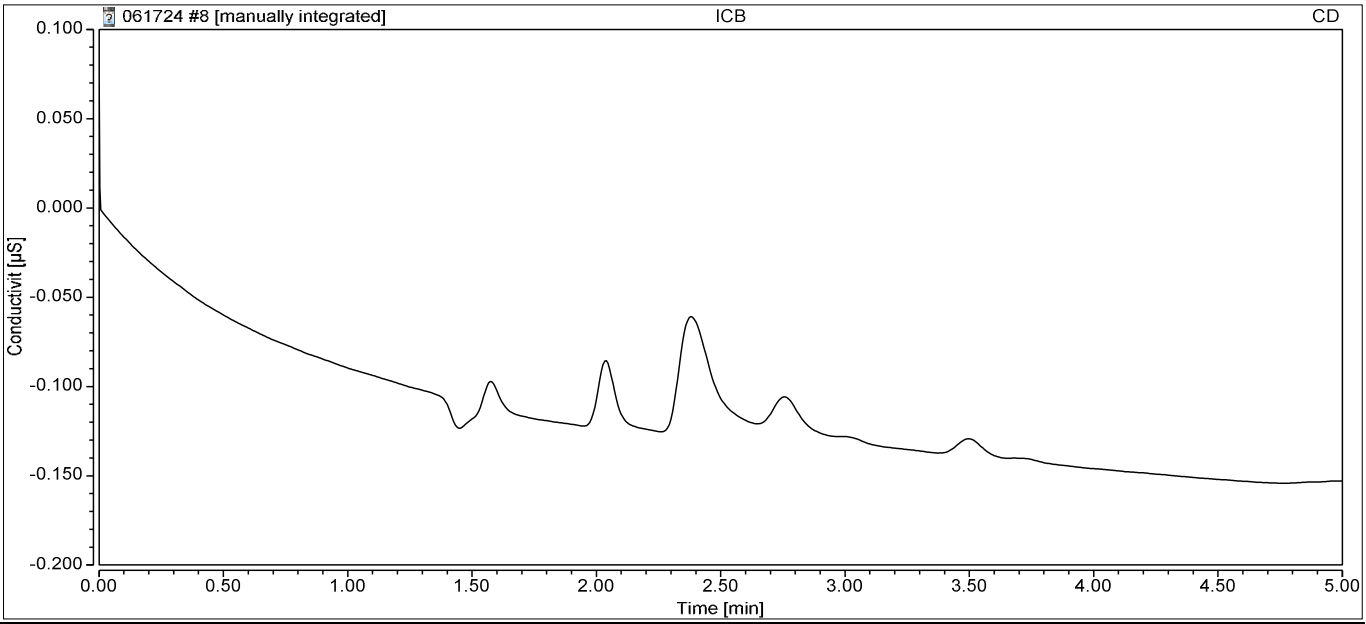
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.810	4.1902	4.1902	1.0000
2	2.04	Chloride	BMB	3.020	20.9108	20.9108	1.0000
3	2.36	Nitrite,N	BMB	1.243	4.1325	4.1325	1.0000
4	2.77	Sulfate	BMb*	1.853	20.7895	20.7895	1.0000
5	3.02	Bromide	bMB*	0.132	4.3818	4.3818	1.0000
6	3.47	Nitrate	BMB	1.359	4.1403	4.1403	1.0000
7	3.71	Chlorate	BMB	0.135	4.1789	4.1789	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.552**		**62.72**	

8 ICB

Sample Name:	**ICB**	*Injection Volume:*	**5.00**
Vial Number:	**RA8**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/10/2024 10:02**	*Sample Weight:*	**1.0000**

Run Time:



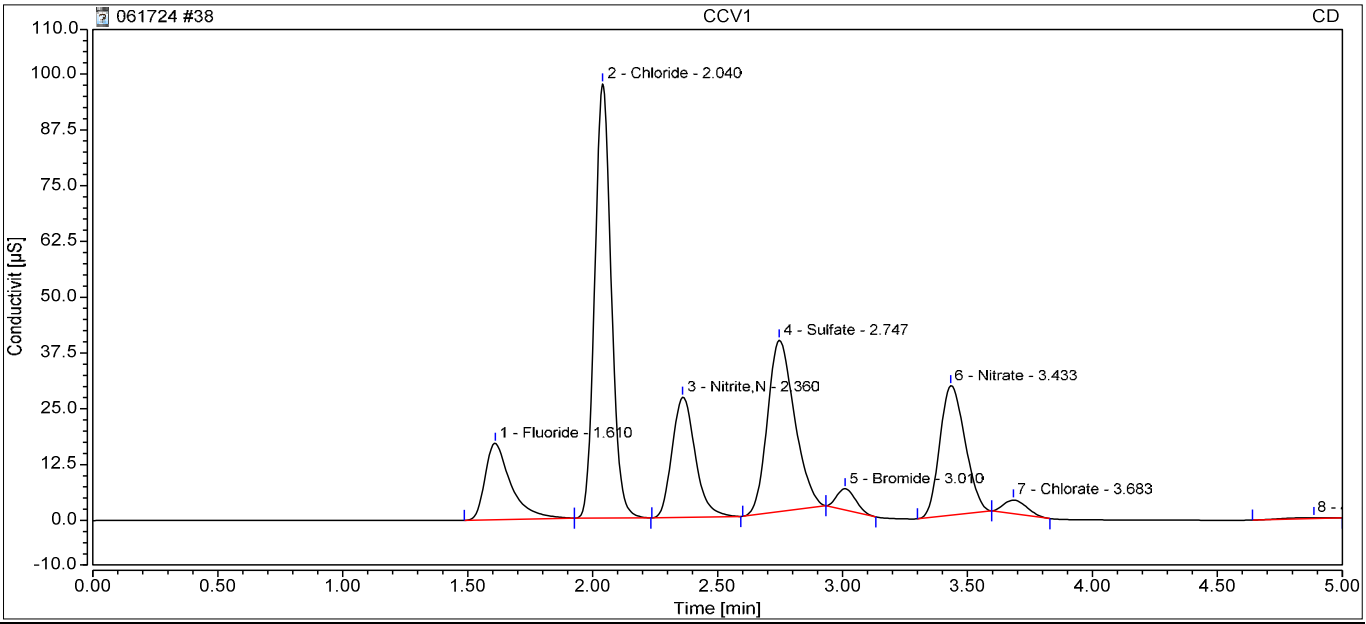
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.000**		**0.00**	

38 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 13:59**	*Sample Weight:*	**1.0000**

Run Time:



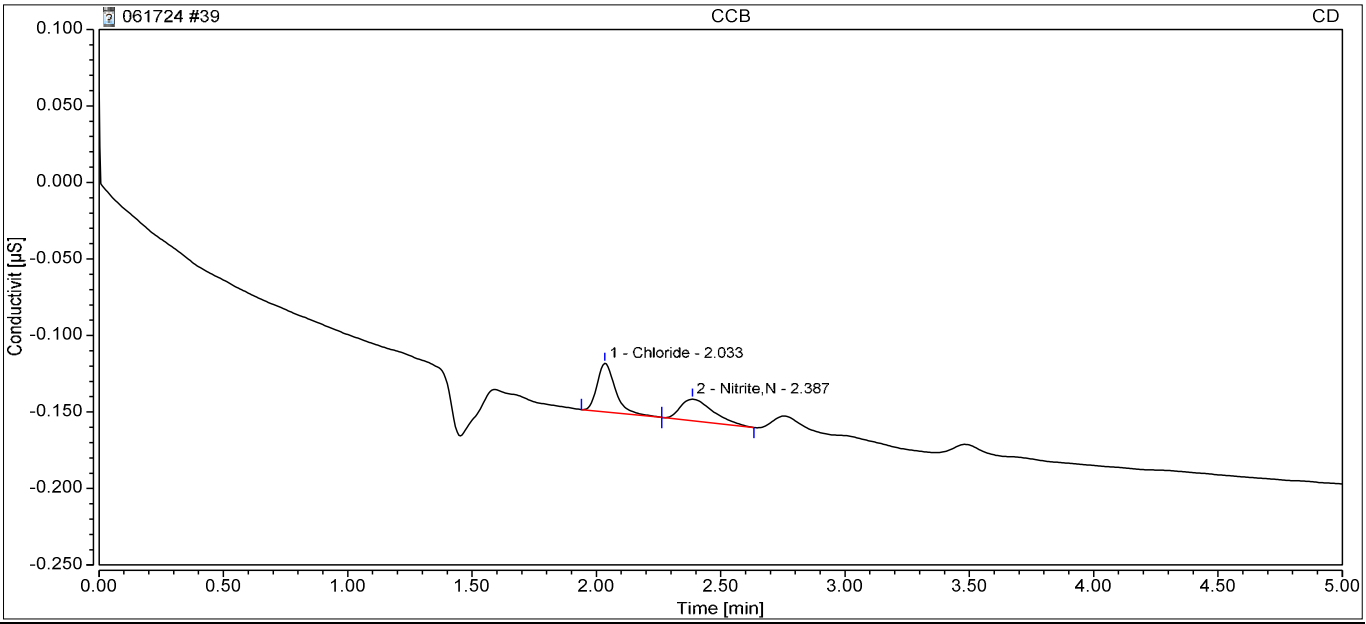
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	2.051	10.5600	10.5600	1.0000
2	2.04	Chloride	BMB	7.449	51.4789	51.4789	1.0000
3	2.36	Nitrite,N	BMB	2.899	10.1836	10.1836	1.0000
4	2.75	Sulfate	BMB	4.833	53.9033	53.9033	1.0000
5	3.01	Bromide	BMB	0.417	11.5520	11.5520	1.0000
6	3.43	Nitrate	BMB	3.407	10.3291	10.3291	1.0000
7	3.68	Chlorate	BMB	0.331	10.3467	10.3467	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**21.387**		**158.35**	

39 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 14:10**	*Sample Weight:*	**1.0000**

Run Time:



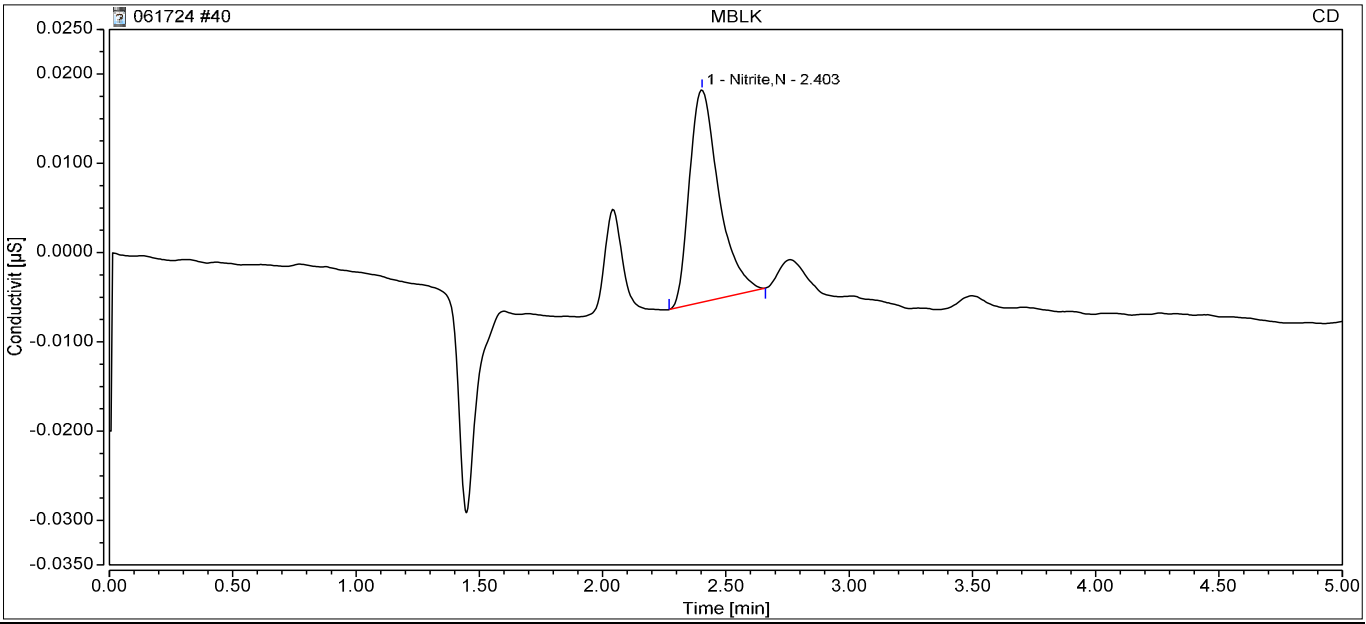
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.03	Chloride	BMB	0.003	0.0892	0.0892	1.0000
2	2.39	Nitrite,N	BMB	0.002	0.0354	0.0354	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.005**		**0.12**	

40 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**5.00**
Vial Number:	**R5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 14:22**	*Sample Weight:*	**1.0000**

Run Time:



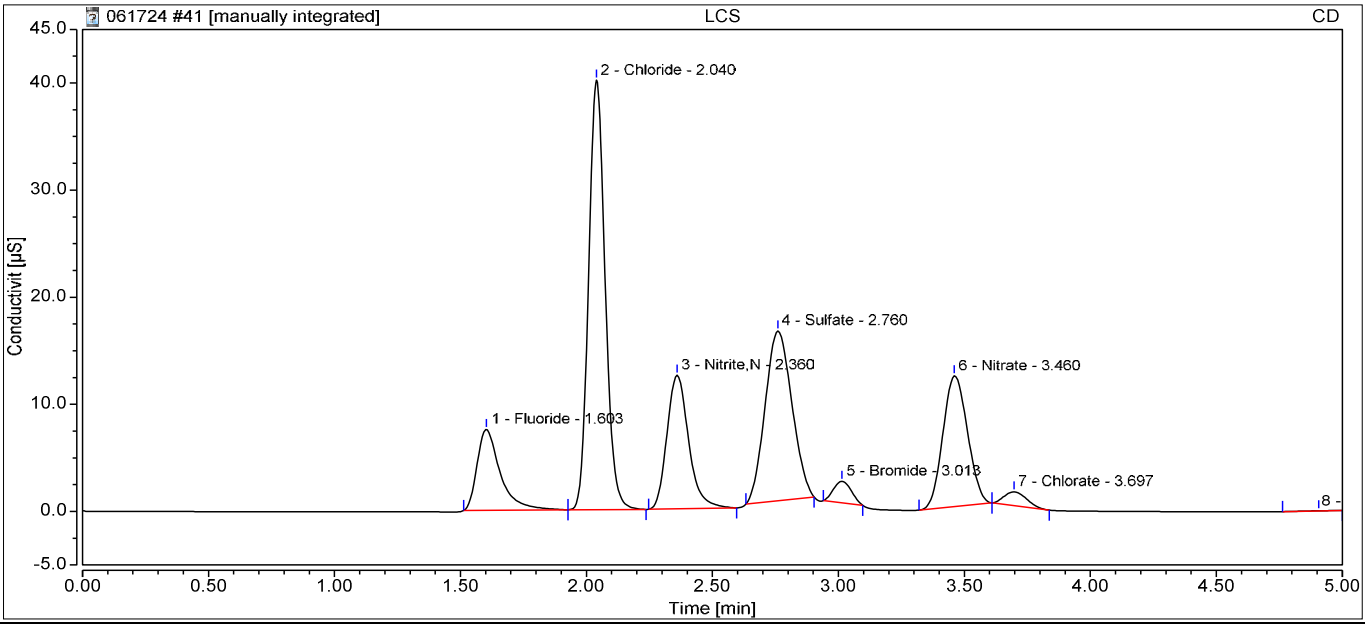
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.003	0.0389	0.0389	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.003**		**0.04**	

41 LCS

Sample Name:	**LCS**	*Injection Volume:*	**5.00**
Vial Number:	**R2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 14:34**	*Sample Weight:*	**1.0000**

Run Time:



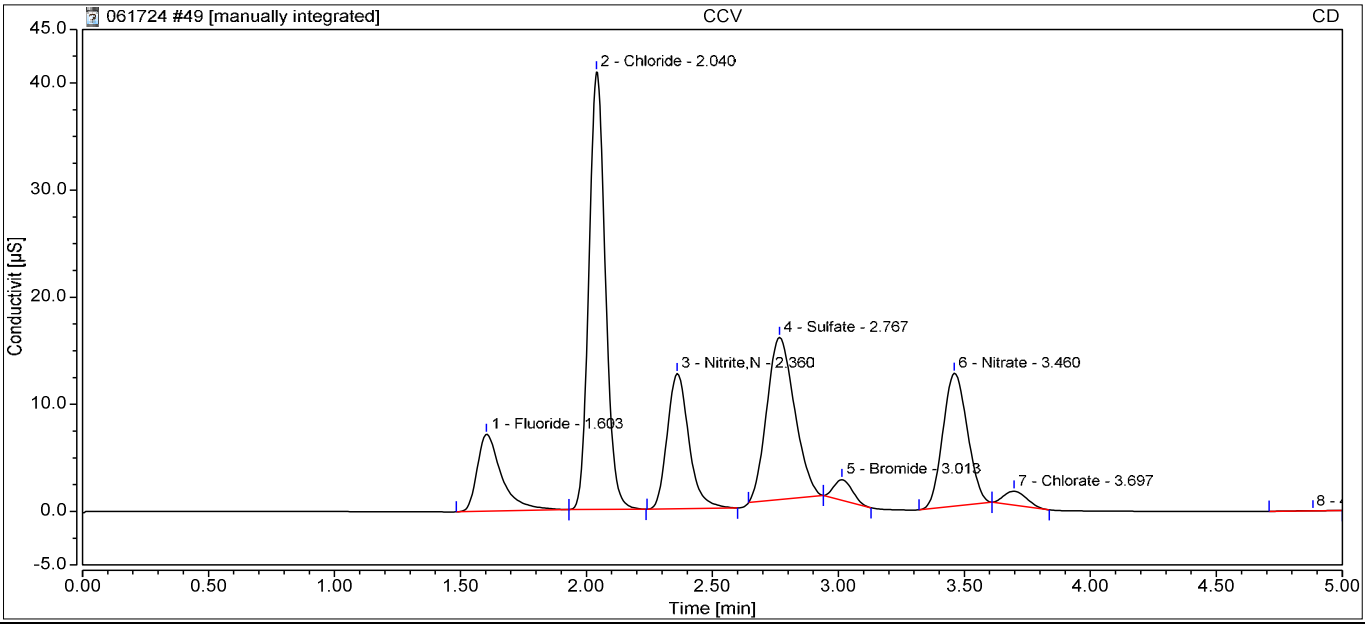
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.804	4.1583	4.1583	1.0000
2	2.04	Chloride	BMB	3.040	21.0499	21.0499	1.0000
3	2.36	Nitrite,N	BMB*	1.242	4.1286	4.1286	1.0000
4	2.76	Sulfate	BMB*	1.947	21.8398	21.8398	1.0000
5	3.01	Bromide	BMB*	0.165	5.3528	5.3528	1.0000
6	3.46	Nitrate	BMB	1.380	4.2042	4.2042	1.0000
7	3.70	Chlorate	BMB	0.134	4.1472	4.1472	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.713**		**64.88**	

49 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 15:27**	*Sample Weight:*	**1.0000**

Run Time:

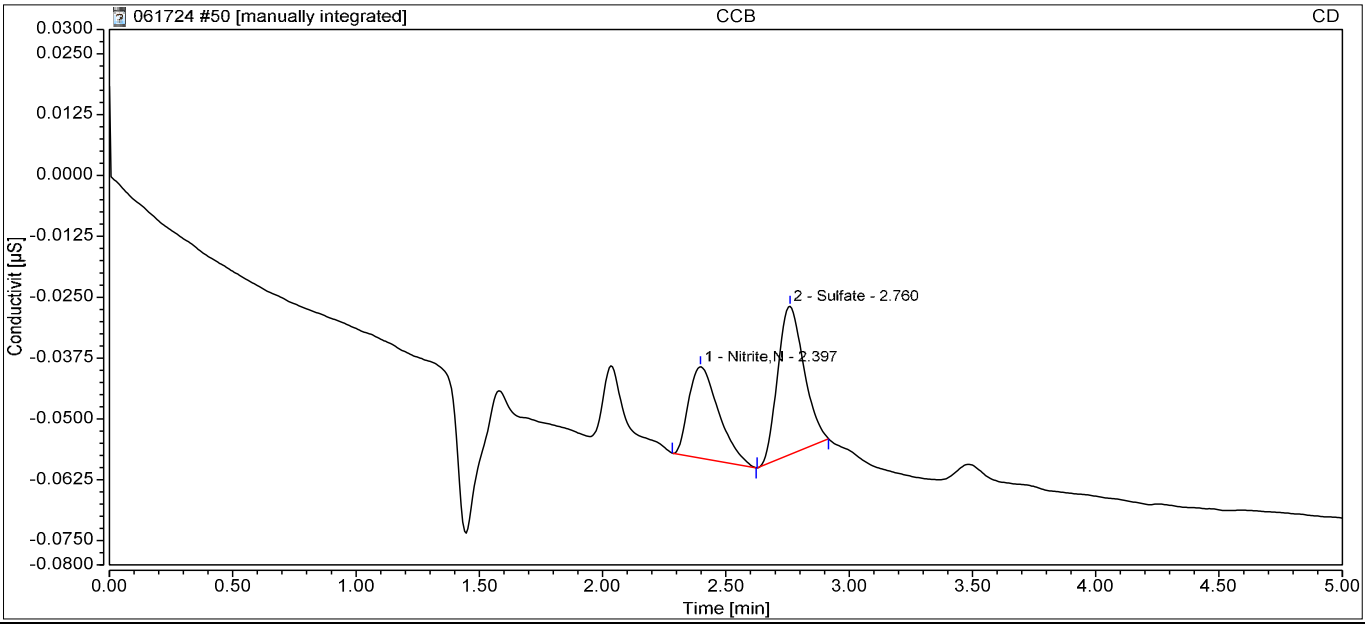


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.805	4.1652	4.1652	1.0000
2	2.04	Chloride	BMB	3.094	21.4216	21.4216	1.0000
3	2.36	Nitrite,N	BMB	1.259	4.1859	4.1859	1.0000
4	2.77	Sulfate	BMB*	1.931	21.6621	21.6621	1.0000
5	3.01	Bromide	BMB	0.164	5.3075	5.3075	1.0000
6	3.46	Nitrate	BMB	1.399	4.2605	4.2605	1.0000
7	3.70	Chlorate	BMB	0.136	4.2204	4.2204	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.788**		**65.22**	

50 CCB			
Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 15:39**	*Sample Weight:*	**1.0000**

Run Time:



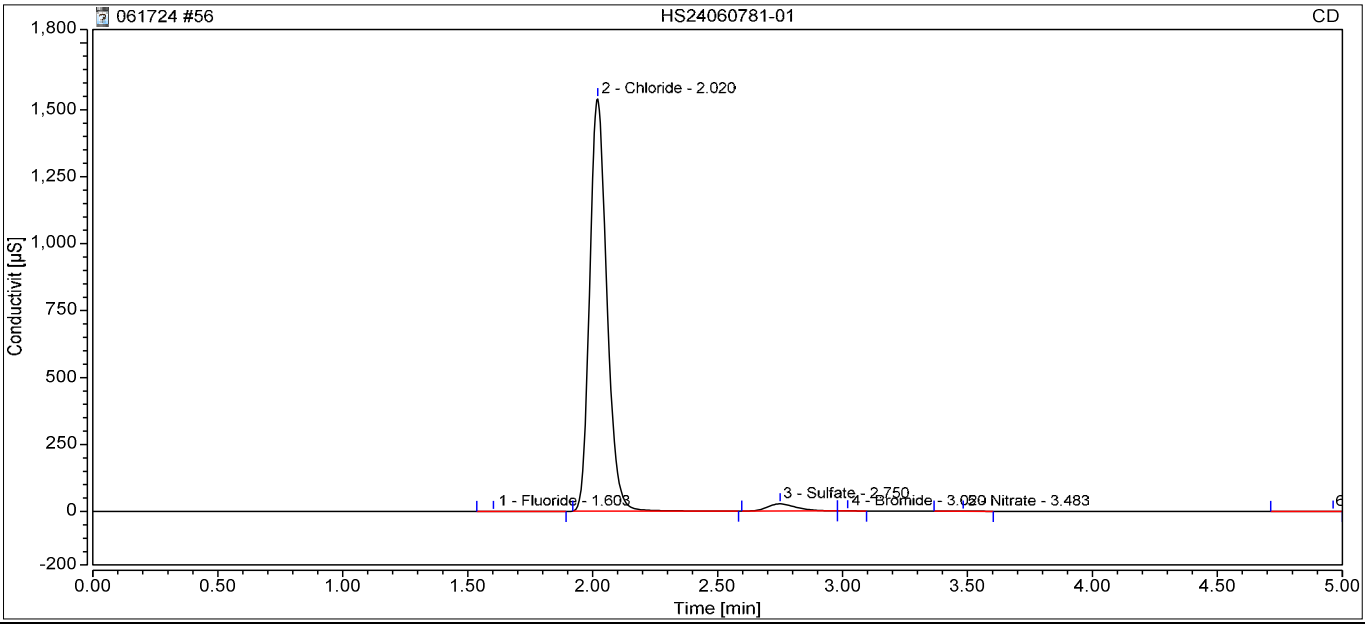
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.40	Nitrite,N	BMB	0.003	0.0369	0.0369	1.0000
2	2.76	Sulfate	BMB*	0.004	0.2496	0.2496	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.006**		**0.29**	

56 HS24060781-01

Sample Name:	**HS24060781-01**	*Injection Volume:*	**5.00**
Vial Number:	**GA1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 16:37**	*Sample Weight:*	**1.0000**

Run Time:



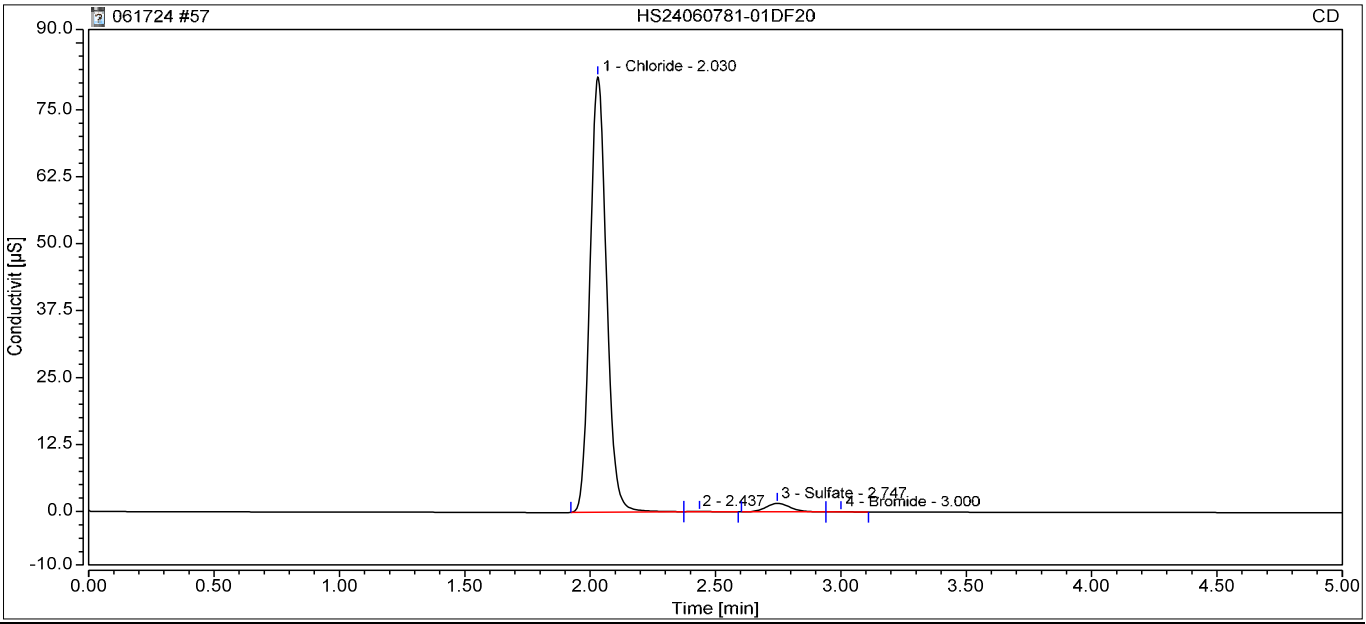
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.011	0.0989	0.0989	1.0000
2	2.02	Chloride	BMB	122.394	844.7431	844.7431	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.75	Sulfate	BMB	3.490	38.9823	38.9823	1.0000
4	3.02	Bromide	BMB	0.020	0.7290	0.7290	1.0000
5	3.48	Nitrate	BMB	0.002	0.0403	0.0403	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**125.917**		**884.59**	

57 HS24060781-01DF20

Sample Name:	**HS24060781-01DF20**	*Injection Volume:*	**5.00**
Vial Number:	**GA2**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**20.0000**
Recording Time:	**06/17/2024 16:43**	*Sample Weight:*	**1.0000**

Run Time:

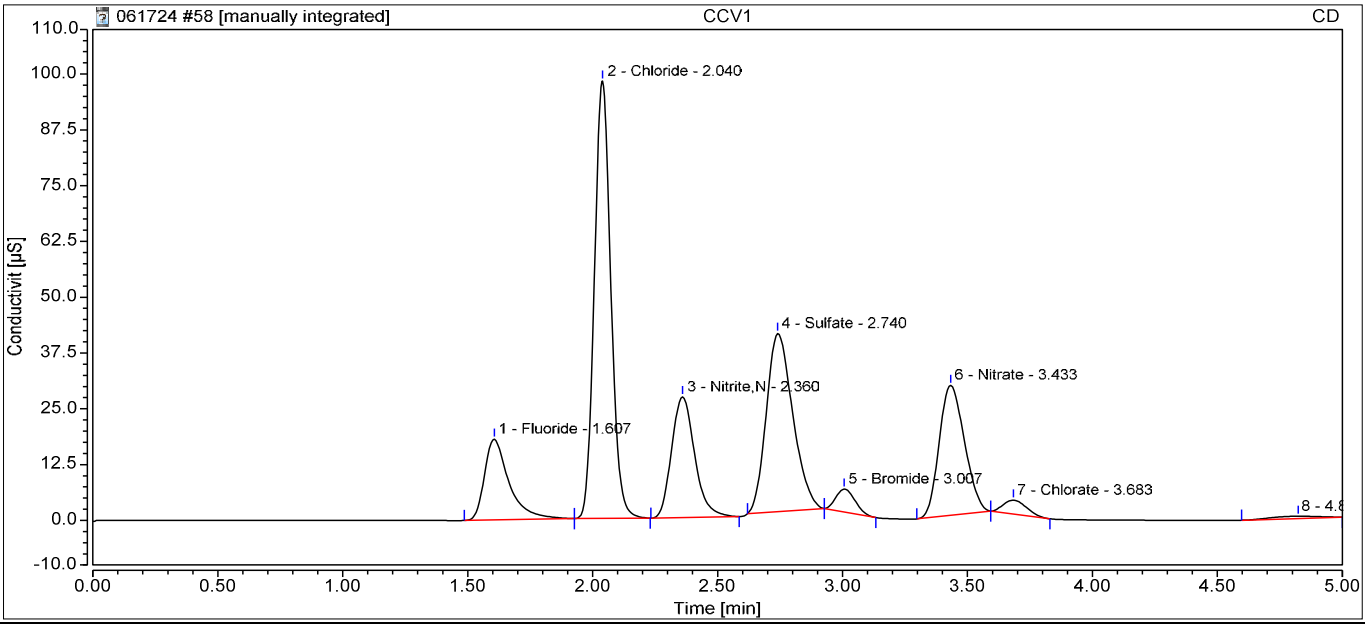


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	20.0000
1	2.03	Chloride	BMB	6.224	43.0231	860.4619	20.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	20.0000
3	2.75	Sulfate	BMB	0.178	2.1811	43.6230	20.0000
4	3.00	Bromide	BMB	0.002	0.0726	1.4526	20.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			**0.000**	**6.404**		**905.54**	

58 CCV1			
Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 16:48**	*Sample Weight:*	**1.0000**

Run Time:



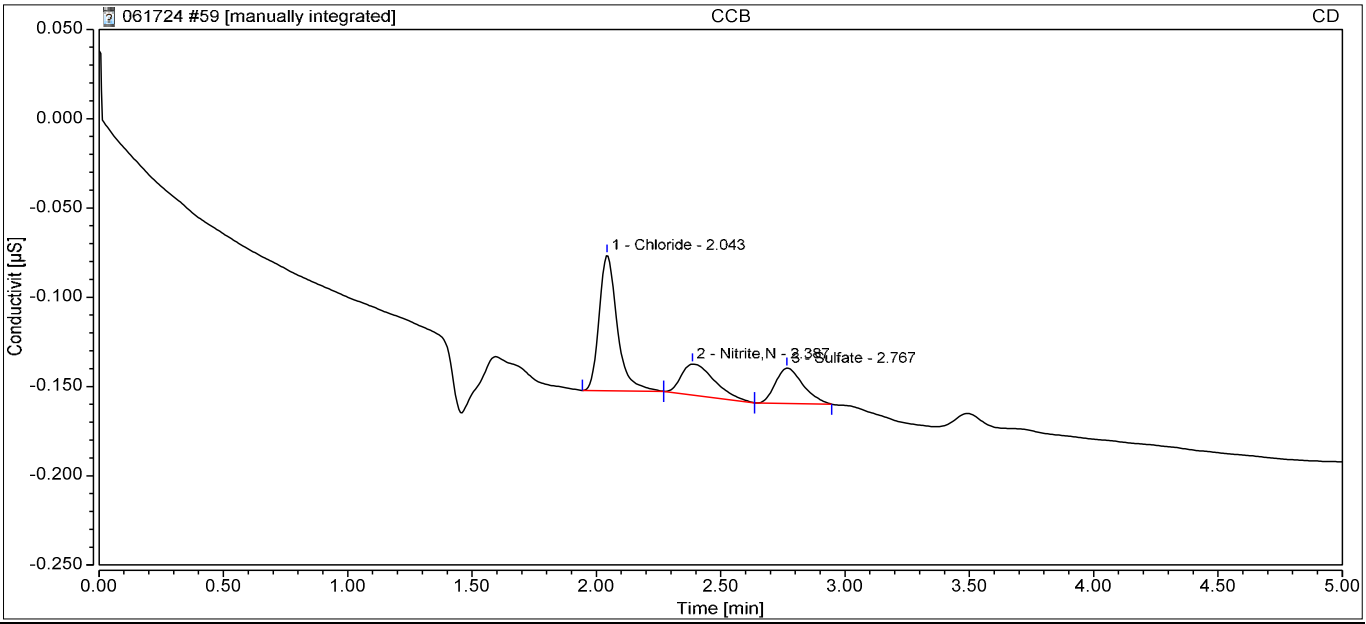
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.61	Fluoride	BMB	2.064	10.6241	10.6241	1.0000
2	2.04	Chloride	BMB	7.464	51.5793	51.5793	1.0000
3	2.36	Nitrite,N	BMB	2.898	10.1809	10.1809	1.0000
4	2.74	Sulfate	BMB*	4.908	54.7269	54.7269	1.0000
5	3.01	Bromide	BMB	0.459	12.4349	12.4349	1.0000
6	3.43	Nitrate	BMB	3.419	10.3652	10.3652	1.0000
7	3.68	Chlorate	BMB	0.337	10.5414	10.5414	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**21.547**		**160.45**	

59 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 17:00**	*Sample Weight:*	**1.0000**

Run Time:

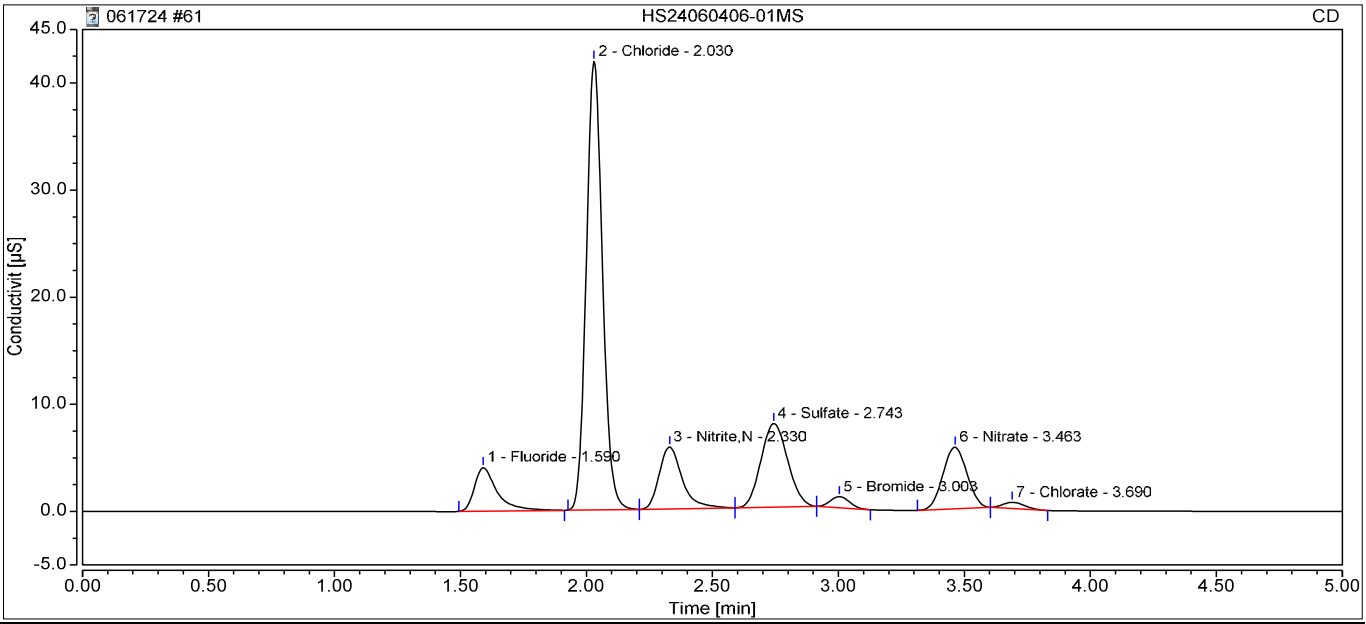


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.04	Chloride	BMB	0.006	0.1149	0.1149	1.0000
2	2.39	Nitrite,N	BMb*	0.003	0.0370	0.0370	1.0000
3	2.77	Sulfate	bMB*	0.003	0.2358	0.2358	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.012**		**0.39**	

61	*HS24060406-01MS*		
Sample Name:	**HS24060406-01MS**	*Injection Volume:*	**5.00**
Vial Number:	**GA4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 17:18**	*Sample Weight:*	**1.0000**

Run Time:



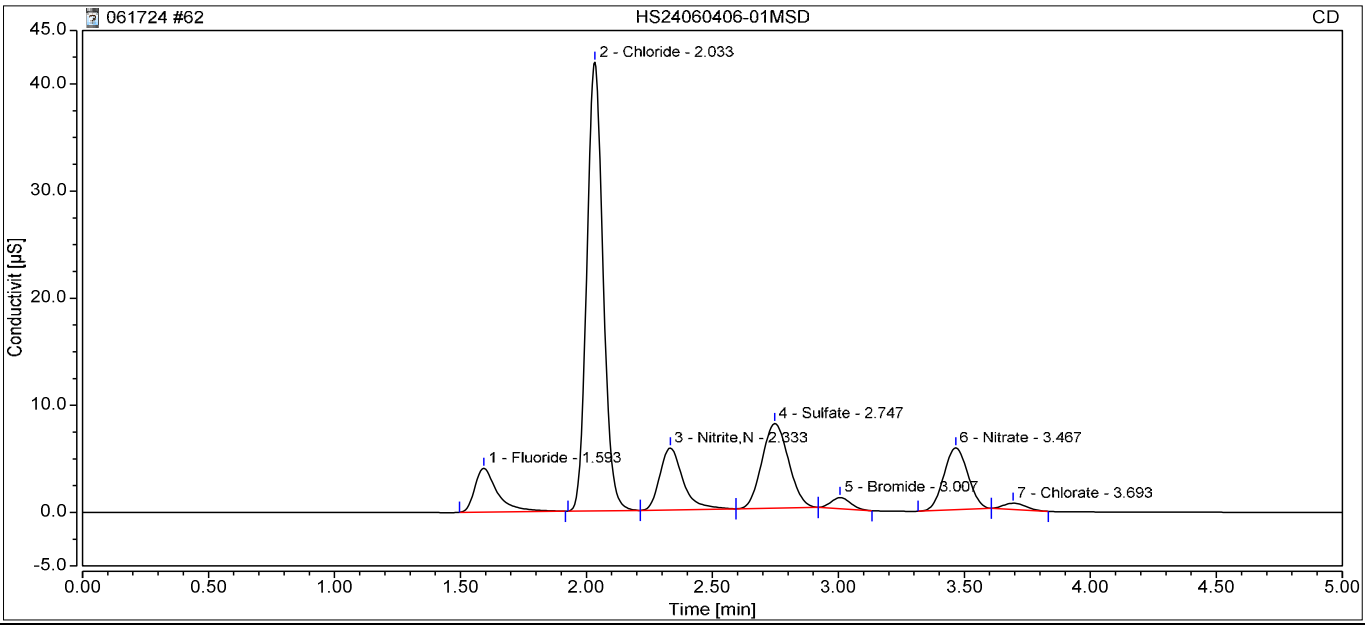
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.424	2.2140	2.2140	1.0000
2	2.03	Chloride	BMB	3.121	21.6106	21.6106	1.0000
3	2.33	Nitrite,N	BMB	0.614	2.0157	2.0157	1.0000
4	2.74	Sulfate	BMB	0.960	10.8716	10.8716	1.0000
5	3.00	Bromide	BMB	0.092	3.1693	3.1693	1.0000
6	3.46	Nitrate	BMB	0.638	1.9605	1.9605	1.0000
7	3.69	Chlorate	BMB	0.059	1.8355	1.8355	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**5.908**		**43.68**	

62 HS24060406-01MSD

Sample Name:	**HS24060406-01MSD**	*Injection Volume:*	**5.00**
Vial Number:	**GA5**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 17:24**	*Sample Weight:*	**1.0000**

Run Time:



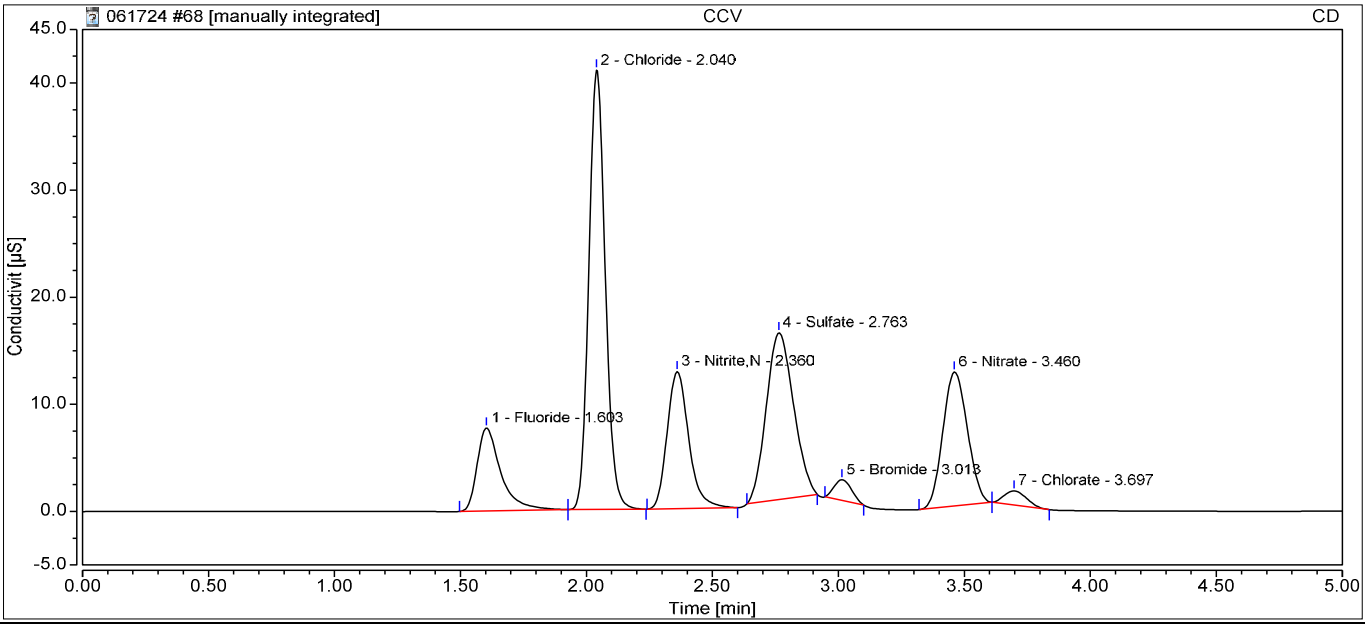
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.59	Fluoride	BMB	0.426	2.2228	2.2228	1.0000
2	2.03	Chloride	BMB	3.125	21.6357	21.6357	1.0000
3	2.33	Nitrite,N	BMB	0.614	2.0143	2.0143	1.0000
4	2.75	Sulfate	BMB	0.965	10.9289	10.9289	1.0000
5	3.01	Bromide	BMB	0.093	3.1879	3.1879	1.0000
6	3.47	Nitrate	BMB	0.639	1.9649	1.9649	1.0000
7	3.69	Chlorate	BMB	0.059	1.8545	1.8545	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**5.921**		**43.81**	

68 CCV

Sample Name:	**CCV**	*Injection Volume:*	**5.00**
Vial Number:	**R1**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 18:11**	*Sample Weight:*	**1.0000**

Run Time:



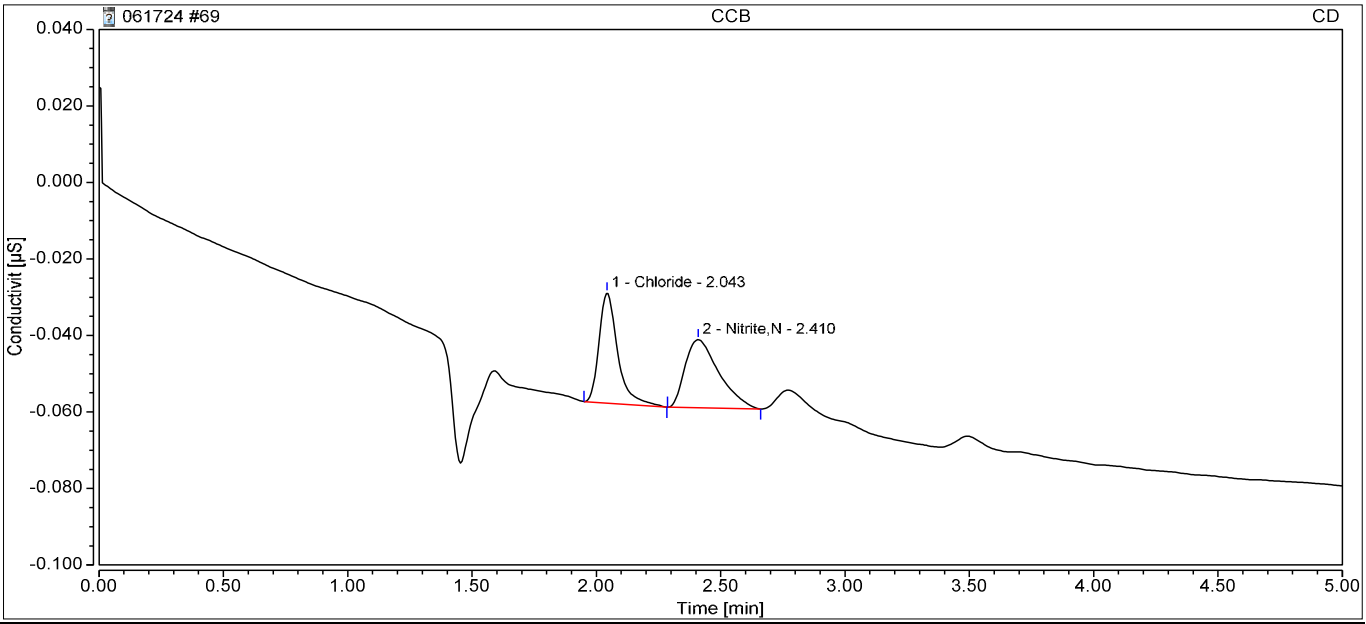
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	0.844	4.3616	4.3616	1.0000
2	2.04	Chloride	BMB	3.100	21.4674	21.4674	1.0000
3	2.36	Nitrite,N	BMB	1.274	4.2368	4.2368	1.0000
4	2.76	Sulfate	BMB*	1.949	21.8605	21.8605	1.0000
5	3.01	Bromide	BMB*	0.155	5.0597	5.0597	1.0000
6	3.46	Nitrate	BMB	1.413	4.3039	4.3039	1.0000
7	3.70	Chlorate	BMB	0.137	4.2487	4.2487	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.872**		**65.54**	

69 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R4**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 18:23**	*Sample Weight:*	**1.0000**

Run Time:



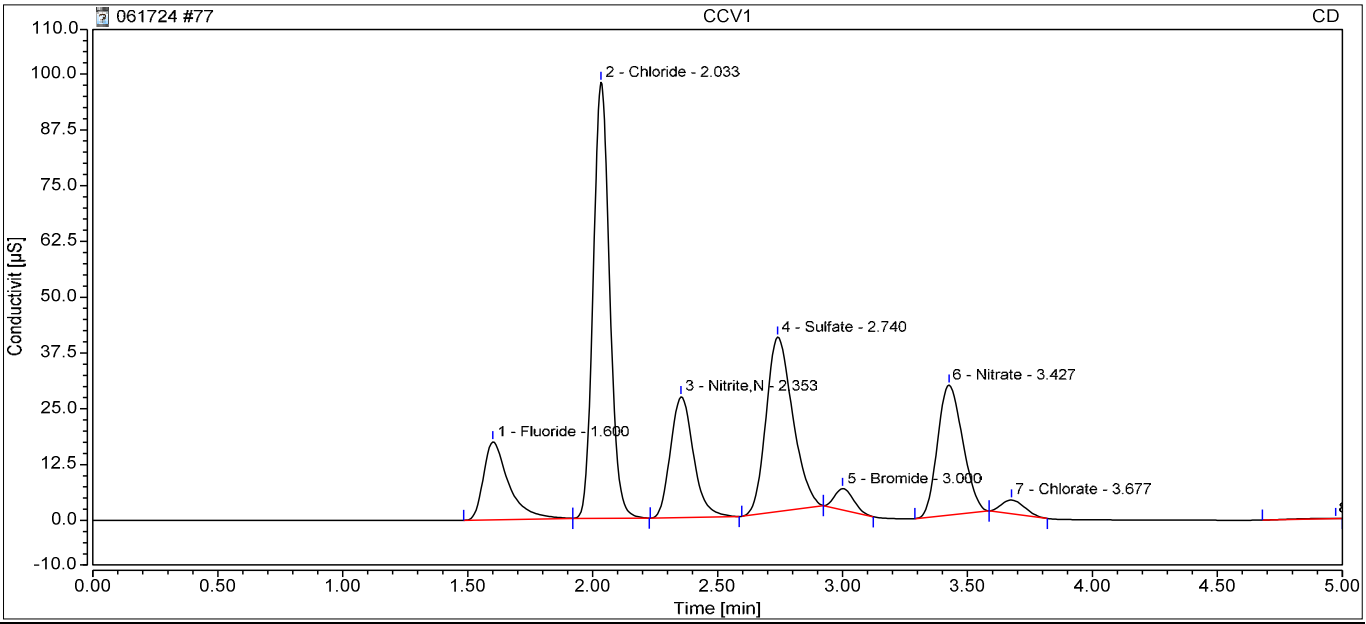
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.04	Chloride	BMB	0.003	0.0880	0.0880	1.0000
2	2.41	Nitrite,N	BMB	0.003	0.0374	0.0374	1.0000
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.005**		**0.13**	

77 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**5.00**
Vial Number:	**R3**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 19:27**	*Sample Weight:*	**1.0000**

Run Time:



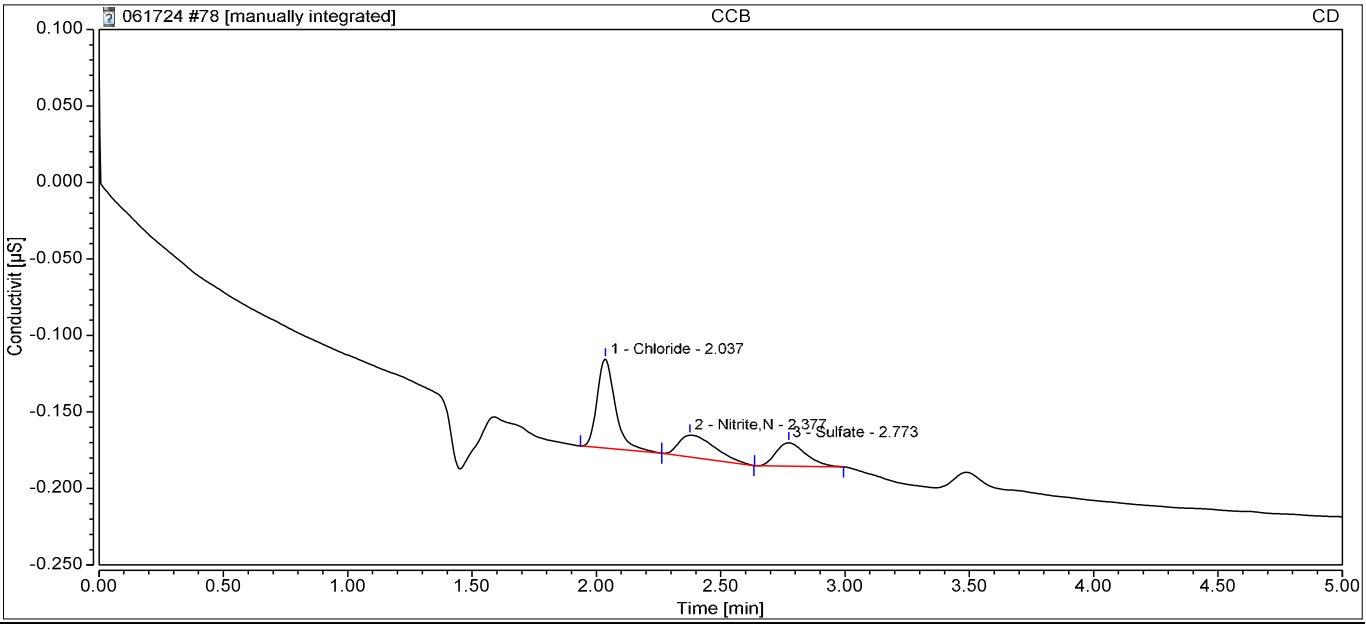
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.60	Fluoride	BMB	2.044	10.5256	10.5256	1.0000
2	2.03	Chloride	BMB	7.426	51.3219	51.3219	1.0000
3	2.35	Nitrite,N	BMB	2.896	10.1731	10.1731	1.0000
4	2.74	Sulfate	BMB	4.837	53.9424	53.9424	1.0000
5	3.00	Bromide	BMB	0.416	11.5323	11.5323	1.0000
6	3.43	Nitrate	BMB	3.407	10.3305	10.3305	1.0000
7	3.68	Chlorate	BMB	0.334	10.4633	10.4633	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**21.362**		**158.29**	

78 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**R7**	*Channel:*	**CD**
Sample Type:	**Unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Program ISO37mM 150mm short 0.4 Constant current**	*Bandwidth:*	**n.a.**
Quantif. Method:	**Anions Processing Method ISO**	*Dilution Factor:*	**1.0000**
Recording Time:	**06/17/2024 19:39**	*Sample Weight:*	**1.0000**

Run Time:



Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	1.0000
1	2.04	Chloride	BMB	0.005	0.1049	0.1049	1.0000
2	2.38	Nitrite,N	BMB	0.002	0.0362	0.0362	1.0000
3	2.77	Sulfate	BMB*	0.002	0.2311	0.2311	1.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.010**		**0.37**	

10450 Stancliff Rd. Suite 210
Houston, TX 77099
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F: +1 281 530 5887
alsglobal.com

WorkOrder: HS24061164

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

09-Jul-2024

WorkOrder: HS24061164

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
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HS24061164 Longhorn GW Treatment Plant Weekly Samples COVER PAGE

ALS WO# HS24061164

HS24061164 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS24061164

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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June 26, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24061164**

Laboratory Results for: **Longhorn GW Treatment Plant Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on Jun 19, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 26-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24061164

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24061164-01	LH18/24-SP650_061824	Water		18-Jun-2024 13:00	19-Jun-2024 10:05	☐
HS24061164-02	LH18/24-SP650_061824_BIX	Water		18-Jun-2024 13:00	19-Jun-2024 10:05	☐
HS24061164-03	LH18/24-SP650_061824_AIX	Water		18-Jun-2024 13:00	19-Jun-2024 10:05	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Jun-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24061164

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

WetChemistry by Method E415.1

Batch ID: R470000

Sample ID: HS24060812-01MS

• MS was for an unrelated sample

WetChemistry by Method E365.3

Batch ID: R469974

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E350.3

Batch ID: R469968

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 26-Jun-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24061164
Sample ID: LH18/24-SP650_061824
Lab ID:HS24061164-01
Collection Date: 18-Jun-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: HB
Nitrogen, Ammonia (As N)	**29**	a	**0.10**	**0.20**	**0.20**	**mg/L**	1	20-Jun-2024 11:00
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: JAC
Phosphorus, Total Orthophosphate (As P)	**6.40**	a	**0.500**	**1.25**	**1.25**	**mg/L**	50	20-Jun-2024 12:01
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**40.9**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	20-Jun-2024 13:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Jun-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24061164
Sample ID: LH18/24-SP650_061824_BIX
Lab ID:HS24061164-02
Collection Date: 18-Jun-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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ALS Houston, US Date: 26-Jun-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24061164
Sample ID: LH18/24-SP650_061824_AIX
Lab ID:HS24061164-03
Collection Date: 18-Jun-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	26-Jun-2024 15:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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ALS Houston, US Date: 26-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24061164

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R469968 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS24061164-01	LH18/24-SP650_061824	18 Jun 2024 13:00			20 Jun 2024 11:00	1
Batch ID: R469974 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS24061164-01	LH18/24-SP650_061824	18 Jun 2024 13:00			20 Jun 2024 12:01	50
Batch ID: R470000 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS24061164-01	LH18/24-SP650_061824	18 Jun 2024 13:00			20 Jun 2024 13:25	1
Batch ID: R470524 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24061164-02	LH18/24-SP650_061824_BIX	18 Jun 2024 13:00			26 Jun 2024 15:58	1
HS24061164-03	LH18/24-SP650_061824_AIX	18 Jun 2024 13:00			26 Jun 2024 15:58	1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24061164

QC BATCH REPORT

Batch ID: R469968 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R469968** Units: **mg/L** Analysis Date: **20-Jun-2024 11:00**
Client ID: Run ID: **WetChem_HS_469968** SeqNo: **8088162** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	0.20	0.20								U

LCS Sample ID: **LCS-R469968** Units: **mg/L** Analysis Date: **20-Jun-2024 11:00**
Client ID: Run ID: **WetChem_HS_469968** SeqNo: **8088161** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	9.517	0.20	10	0	95.2	80 - 120				

MS Sample ID: **HS24061164-01MS** Units: **mg/L** Analysis Date: **20-Jun-2024 11:00**
Client ID: **LH18/24-SP650_061824** Run ID: **WetChem_HS_469968** SeqNo: **8088164** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	39.48	0.20	10	29.15	103	80 - 120				

MSD Sample ID: **HS24061164-01MSD** Units: **mg/L** Analysis Date: **20-Jun-2024 11:00**
Client ID: **LH18/24-SP650_061824** Run ID: **WetChem_HS_469968** SeqNo: **8088163** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	38.98	0.20	10	29.15	98.2	80 - 120	39.48	1.29	20	

The following samples were analyzed in this batch: HS24061164-01

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ALS Houston, US Date: 26-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24061164

QC BATCH REPORT

Batch ID: R469974 (0) **Instrument: UV-2450** **Method: ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978**

MBLK Sample ID: **MBLK-R469974** Units: **mg/L** Analysis Date: **20-Jun-2024 12:01**
Client ID: Run ID: **UV-2450_469974** SeqNo: **8088248** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.0250	0.0250								U

LCS Sample ID: **LCS-R469974** Units: **mg/L** Analysis Date: **20-Jun-2024 12:01**
Client ID: Run ID: **UV-2450_469974** SeqNo: **8088247** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.241	0.0250	0.25	0	96.4	80 - 120				

LCSD Sample ID: **LCSD-R469974** Units: **mg/L** Analysis Date: **20-Jun-2024 12:01**
Client ID: Run ID: **UV-2450_469974** SeqNo: **8088246** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.239	0.0250	0.25	0	95.6	80 - 120	0.241	0.833	20	

MS Sample ID: **HS24061051-01MS** Units: **mg/L** Analysis Date: **20-Jun-2024 12:01**
Client ID: Run ID: **UV-2450_469974** SeqNo: **8088250** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.261	0.0250	0.25	0.009	101	80 - 120				

MSD Sample ID: **HS24061051-01MSD** Units: **mg/L** Analysis Date: **20-Jun-2024 12:01**
Client ID: Run ID: **UV-2450_469974** SeqNo: **8088249** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.269	0.0250	0.25	0.009	104	80 - 120	0.261	3.02	20	

The following samples were analyzed in this batch: HS24061164-01

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ALS Houston, US Date: 26-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24061164

QC BATCH REPORT

Batch ID: R470000 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-06202024** Units: **mg/L** Analysis Date: **20-Jun-2024 11:23**
Client ID: Run ID: **TOC_05_470000** SeqNo: **8088637** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-06202024** Units: **mg/L** Analysis Date: **20-Jun-2024 11:36**
Client ID: Run ID: **TOC_05_470000** SeqNo: **8088638** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.802	1.00	10	0	98.0	85 - 115				

LCSD Sample ID: **LCSD-06202024** Units: **mg/L** Analysis Date: **20-Jun-2024 12:21**
Client ID: Run ID: **TOC_05_470000** SeqNo: **8088639** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.753	1.00	10	0	97.5	85 - 115	9.802	0.501	20	

MS Sample ID: **HS24060812-01MS** Units: **mg/L** Analysis Date: **20-Jun-2024 13:11**
Client ID: Run ID: **TOC_05_470000** SeqNo: **8088643** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	31.4	1.00	10	23.64	77.6	80 - 120				S

The following samples were analyzed in this batch: HS24061164-01

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ALS Houston, US Date: 26-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS24061164**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Maryland	343; 2023-2024	30-Jun-2024
Michigan	9971	30-Apr-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

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ALS Houston, US Date: 26-Jun-24

Sample Receipt Checklist

Work Order ID: HS24061164 **Date/Time Received:** **19-Jun-2024 10:05**

Client Name: Bhate Environmental **Received by:** **Belinda Gomez**

Completed By: */S/ Belinda Gomez* (eSignature) 19-Jun-2024 13:34 (Date/Time) **Reviewed by:** */S/ sebastian.lugo* (eSignature) 19-Jun-2024 15:27 (Date/Time)

Matrices: **w** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	3.4uc/3.5c	ir31	
Cooler(s)/Kit(s):	sm red		
Date/Time sample(s) sent to storage:	6/19/2024 1335		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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CHAIN OF CUSTODY

HS24061164

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 530-5656 ATTN: James Guin

Bhate Environmental Associates, Inc.
Longhorn GW Treatment Plant Weekly Samples

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O. Number

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE	Analy						Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_061824	Water	06/18/24 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_061824	Water	06/18/24 / 13:00		1			X								NONE	
LH18/24–SP650_061824_BIX	Water	06/18/24 / 13:00		1				X							NONE	
LH18/24- SP650_061824_AIX	Water	06/18/24 / 13:00		1				X							NONE	

Additional Remarks: **24 HR. TAT on Perchlorate Samples. Standard TAT on all other parameters**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	06/18/24	13:30								6/19/24	1005

For Lab Use Only

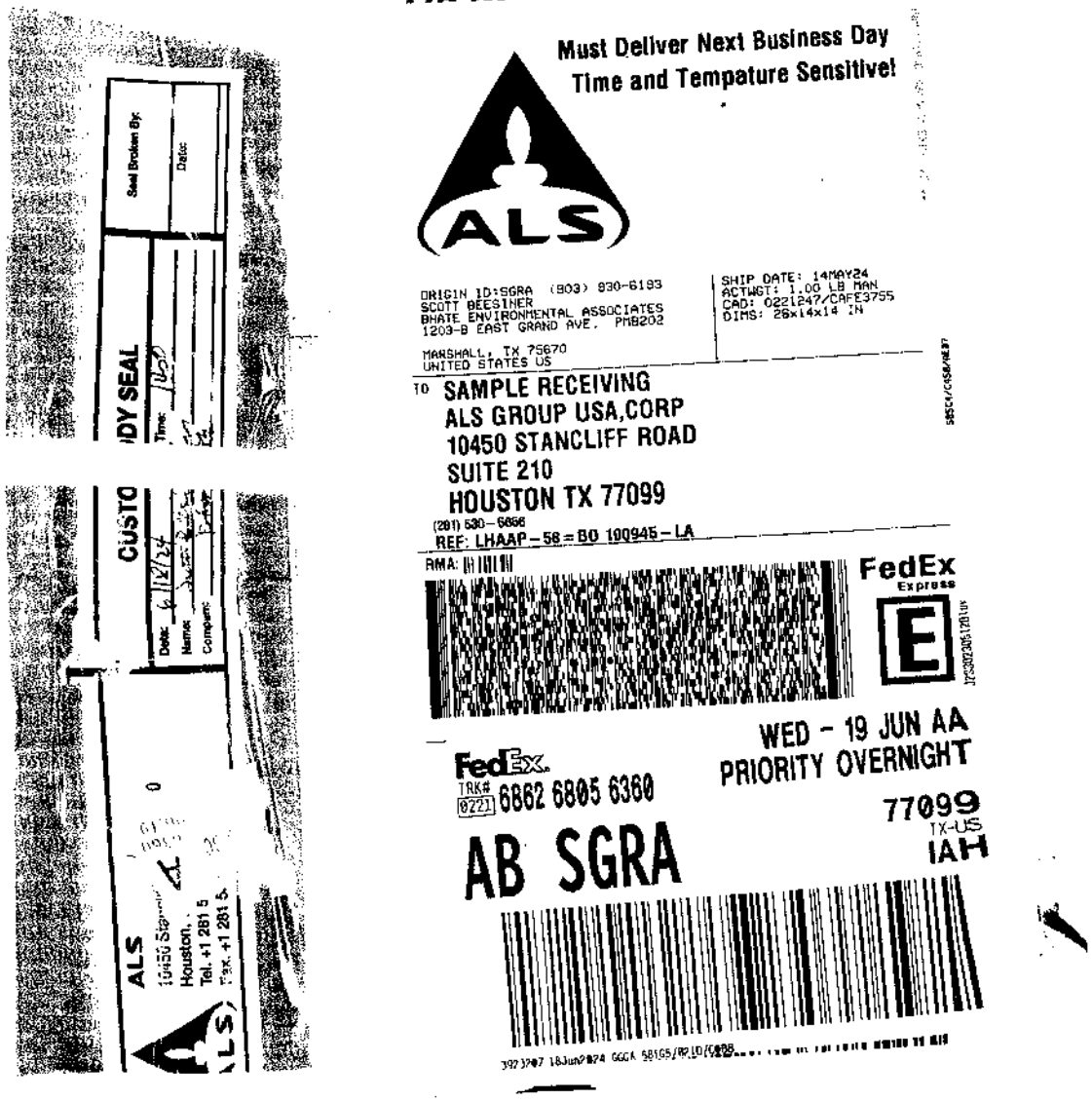
Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition
							3.4		Red IR31 6.E01

Remarks:

(Word) S:\I-ces\Forms\Chain of Custody - BiWeekly

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(15) 6/19/24



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June 26, 2024 Service Request No:E2400706

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: Perchlorates

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2024
For your reference, these analyses have been assigned our service request number **E2400706.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

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Client:	ALS Environmental - US	**Service Request No.:**	E2400706
Project:	Perchlorates	**Date Received:**	06/19/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two samples were received for analysis at ALS Environmental in Houston on 06/19/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400335: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400706
Project: Perchlorates

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400706-001	LH18/24-SP650_061824_BIX	6/18/2024	1300
E2400706-002	LH18/24-SP650_061824_AIX	6/18/2024	1300

Service Request Summary

Folder #: **E2400706**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5E
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400706-001	LH18/24-SP650_061824_BIX	Water	06/18/24 1300	**IV**
E2400706-002	LH18/24-SP650_061824_AIX	Water	06/18/24 1300	**IV**

Service Request Summary

Folder #: **E2400706**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5E
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

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Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

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Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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ALS Laboratory Group
Perchlorates

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **26072**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24061164
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24061164-02**	**LH18/24-SP650_061824_BIX**	**Water**	**18 Jun 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			26 Jun 2024
2.	**HS24061164-03**	**LH18/24-SP650_061824_AIX**	**Water**	**18 Jun 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			26 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6/19/24 1404

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

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Sample Receipt Checklist

Work Order ID: HS24061164 **Date/Time received:** 19 Jun 2024 10:05

Client name: Bhate Environmental Associates, Inc. **Received by:** Belinda Gomez

Completed/By: 19 Jun 2024 13:34 (Date/Time) Belinda Gomez (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: w **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	1 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 3.4uc/3.5c ir31

Cooler Information: 1 Cooler(s), sm red

Date/Time sample(s) sent to storage: 6/19/2024 1335

Water - VOA vials have zero headspace?	☐ Yes	☐ No	☑ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400685-001	18CPTMW06_06224	.01	6850/ClO4 DOD			Water	10mL	
2	E2400685-002	MW22_061224	.01	6850/ClO4 DOD			Water	10mL	
3	E2400685-003	MW22_06224_a	.01	6850/ClO4 DOD			Water	10mL	
4	E2400685-004	MW6_06224	.01	6850/ClO4 DOD			Water	10mL	
5	E2400685-005	109_06224	.01	6850/ClO4 DOD			Water	10mL	
6	E2400685-006	MW21_06224	.01	6850/ClO4 DOD			Water	10mL	
7	E2400685-007	18CPTMW22SW_06224	.01	6850/ClO4 DOD			Water	10mL	
8	E2400685-008	MW20_06224	.01	6850/ClO4 DOD			Water	10mL	
9	E2400691-001	MW12_061324	.01	6850/ClO4 DOD			Water	10mL	
10	E2400691-002	1824DPTMW06_061324	.01	6850/ClO4 DOD			Water	10mL	
11	E2400691-003	AWD4_061324	.01	6850/ClO4 DOD			Water	10mL	
12	E2400691-004	18CPTMW15_061324	.01	6850/ClO4 DOD			Water	10mL	
13	E2400691-005	18WW09_061324	.01	6850/ClO4 DOD			Water	10mL	
14	E2400691-006	18WW08_061324	.01	6850/ClO4 DOD			Water	10mL	
15	E2400691-007	18WW22_061324	.01	6850/ClO4 DOD			Water	10mL	
16	E2400691-008	CO4_061324	.01	6850/ClO4 DOD			Water	10mL	
17	E2400702-001	2406120956A ST-3-735	.04	6850/ClO4			Water	10mL	
18	E2400702-002	2406121437A ST-3-586	.01	6850/ClO4			Water	10mL	
19	E2400706-001	LH18/24-SP650_061824_BIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400706-002	LH18/24-SP650_061824_AIX	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400335-01	MB		6850/ClO4			Liquid	10mL	
22	EQ2400335-02	LCS		6850/ClO4			Liquid	10mL	
23	EQ2400335-03	DLCS		6850/ClO4			Liquid	10mL	
24	EQ2400335-04	ICS		6850/ClO4			Liquid	10mL	
25	EQ2400335-05	MW12_061324 MS	.01	6850/ClO4 DOD			Liquid	10mL	
26	EQ2400335-06	MW12_061324 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400335-02 10.00µL EQ2400335-02 10.00µL EQ2400335-03 10.00µL EQ2400335-03 10.00µL EQ2400335-04 10.00µL EQ2400335-04 10.00µL
EQ2400335-05 10.00µL EQ2400335-06 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

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Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped

Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

E2400685-001	100.00µL	E2400685-002	100.00µL	E2400685-003	100.00µL	E2400685-004	100.00µL	E2400685-005	100.00µL	E2400685-006	100.00µL
E2400685-007	100.00µL	E2400685-008	100.00µL	E2400691-001	100.00µL	E2400691-002	100.00µL	E2400691-003	100.00µL	E2400691-004	100.00µL
E2400691-005	100.00µL	E2400691-006	100.00µL	E2400691-007	100.00µL	E2400691-008	100.00µL	E2400702-001	100.00µL	E2400702-002	100.00µL
E2400706-001	100.00µL	E2400706-002	100.00µL	EQ2400335-01	100.00µL	EQ2400335-01	100.00µL	EQ2400335-02	100.00µL	EQ2400335-02	100.00µL
EQ2400335-03	100.00µL	EQ2400335-03	100.00µL	EQ2400335-04	100.00µL	EQ2400335-04	100.00µL	EQ2400335-05	100.00µL	EQ2400335-06	100.00µL

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/21/24 08:25
Finished: 6/21/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Collected:**	6/18/24 1300
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	LH18/24-SP650_061824_BIX	**Units:**	µg/L
Lab Code:	E2400706-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 14:03	440426	845357	

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Collected:**	6/18/24 1300
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	LH18/24-SP650_061824_AIX	**Units:**	µg/L
Lab Code:	E2400706-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1.17**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 14:09	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400335-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 10:17	440426	845357	

Accuracy & Precision

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dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Analyzed:**	06/21/24
Sample Matrix:	Water	**Date Extracted:**	06/21/24

Duplicate Lab Control Sample Summary

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	845357

	Lab Control Sample EQ2400335-02			Duplicate Lab Control Sample EQ2400335-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0934 J	0.100	93	0.0974 J	0.100	97	84-119	4	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0934**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:36	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0974**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:42	440426	845357	

HS24061164 Wetchem NIT-AMM_W- E350.3 - ISE

ALS WO# HS24061164

ISE_W_350.3

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Logbook **32521**

Ion Selective Electrode Logbook

Analyst: HB

Date: 6-20-24

Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F

Probe Calibration Date: 6-20-24

Cal Std ID: 325105908

Probe ID: NH3 -10

Std Level	mV	Conc., mg/L:
STD 1 (mg/L): 0.2	136.4	0.20
STD 2 (mg/L): 1	94.8	1.00
STD 3 (mg/L): 5	55.0	5.00

Sodium Thiosulfate ID:

Std Level	mV	Conc., mg/L:
STD 4 (mg/L): 10	37.6	10.00
STD 5 (mg/L): 50	-1.0	50.00

LSC / MS Spike ID: 3100609W2

ICV Cal STD ID: 3100609W1

DPD Reagent ID: 3100609W4

ICAL Date & Slope: 102.0% -60.2 MV

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/ –)	Comments
CCV		50	50		9.430			
CCB		"	"		0.008			
MBLK					0.008			
LCS					9.517			
1164-01					29.152		–	
-01 MS					39.482		–	
-01 MSD					38.915		–	
1088-01					0.772		–	
-02					0.651		–	
1023-01					0.659		–	
-02					0.654		–	
CCV					9.682			
CCB		"	"		0.009			

Batch ID: 469968

Reported By HB

Reviewed By:

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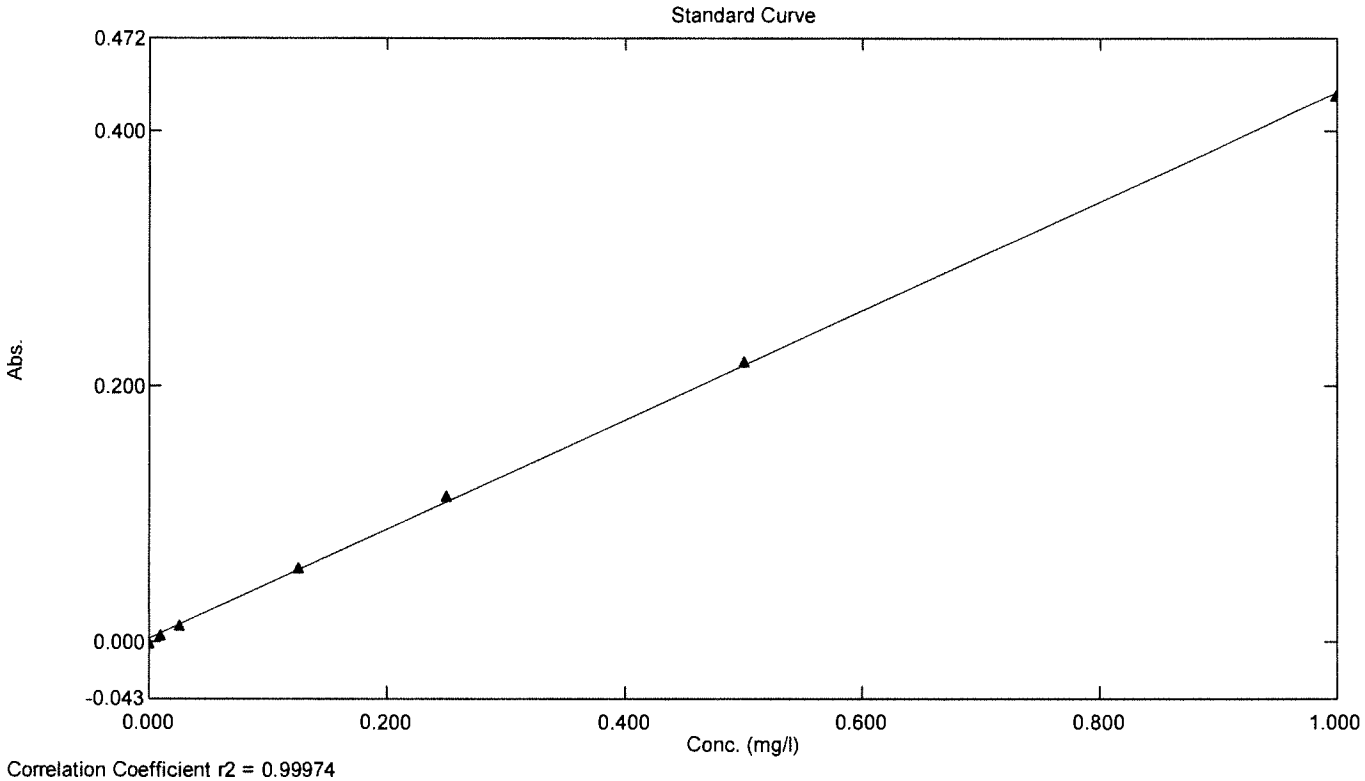
HS24061164 Wetchem P-ORTHO

ALS WO# HS24061164

Standard Table Report

07/05/2024 05:33:45 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\06202024P_ORTHO .pho



Correlation Coefficient r2 = 0.99974

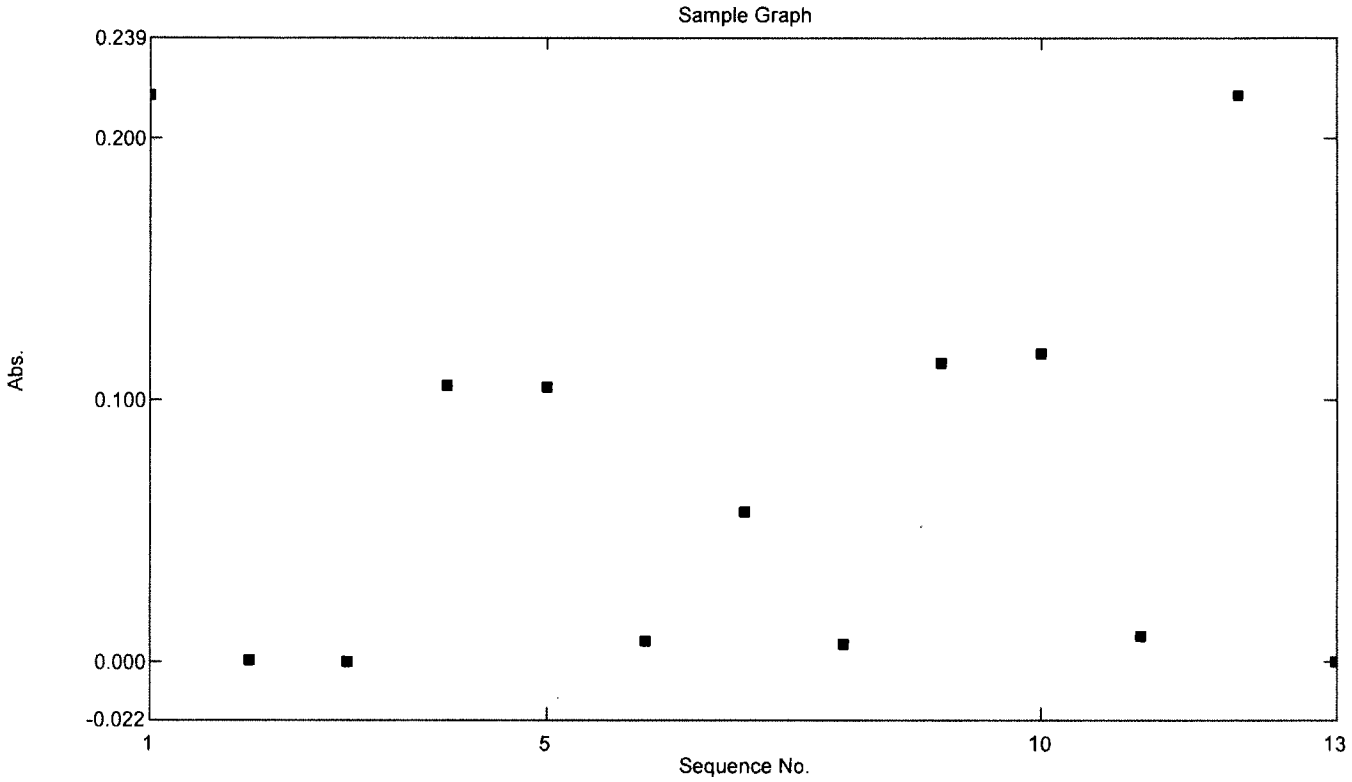
Standard Table

	Sample ID	Type	Ex	Conc	WL650.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.000	1.000	
2	STD2	Standard		0.010	0.006	1.000	
3	STD3	Standard		0.025	0.013	1.000	
4	STD4	Standard		0.125	0.058	1.000	
5	STD5	Standard		0.250	0.113	1.000	
6	STD6	Standard		0.500	0.218	1.000	
7	STD7	Standard		1.000	0.428	1.000	09/07/24
8							

Sample Table Report

07/05/2024 05:34:36 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\06202024P_ORTHO .pho



Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	06/20/2024	12:01:07 PM	0.501	0.217	325106003
2	CCB	06/20/2024	12:01:19 PM	-0.006	0.000	325106001
3	MBLK	06/20/2024	12:01:40 PM	-0.008	-0.000	WC030
4	LCS	06/20/2024	12:02:49 PM	0.241	0.106	325106002
5	LCSD	06/20/2024	12:04:35 PM	0.239	0.105	
6	LOQ	06/20/2024	12:07:09 PM	0.011	0.008	
7	HS24061164.01	06/20/2024	12:07:27 PM	0.128	0.058	PF= 50X
8	HS24061051.01	06/20/2024	12:07:58 PM	0.009	0.007	
9	HS24061051.01MS	06/20/2024	12:08:26 PM	0.261	0.114	
10	HS24061051.01MSD	06/20/2024	12:09:26 PM	0.269	0.118	
11	HS24061164.03	06/20/2024	12:14:25 PM	0.016	0.010	
12	CCV2	06/20/2024	12:14:39 PM	0.501	0.217	
13	CCB2	06/20/2024	12:14:48 PM	-0.007	0.000	
14						

HS24061164 Wetchem TOC_W ICAL TABLE

ALS WO# HS24061164

C:\TOC-L\Data\2024_04_25_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Standard	NPOC	CAL	3100608307	04.25.2024.	1.000		
2	Unknown	NPOC	ICV	3100607917	04.25.2024.	1.000	NPOC:9.687mg/L	
3	Unknown	NPOC	ICB		04.25.2024.	1.000	NPOC:0.2979mg/L	
4	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.03mg/L	
5	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06766mg/	
6	Unknown	NPOC	MBLK-04252024		04.25.2024.	1.000	NPOC:0.1478mg/L	
7	Unknown	NPOC	LCS-04252024	3100607917	04.25.2024.	1.000	NPOC:5.144mg/L	
8	Unknown	NPOC	LCSD-04052024		04.25.2024.	1.000	NPOC:5.082mg/L	
9	Unknown	NPOC	HS24041423-01		04.25.2024.	1.000	NPOC:6.750mg/L	
10	Unknown	NPOC	HS24041423-01MS		04.25.2024.	1.000	NPOC:15.86mg/L	
11	Unknown	NPOC	HS24041558-01		04.25.2024.	1.000	NPOC:0.01517mg/	
12	Unknown	NPOC	HS24040953-01		04.25.2024.	1.000	NPOC:10.42mg/L	
13	Unknown	NPOC	HS24040953-04		04.25.2024.	1.000	NPOC:7.332mg/L	
14	Unknown	NPOC	HS24040954-01		04.25.2024.	1.000	NPOC:4.335mg/L	
15	Unknown	NPOC	HS24040954-02		04.25.2024.	1.000	NPOC:8.586mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09033mg/	
18	Unknown	NPOC	HS24040954-04		04.25.2024.	1.000	NPOC:4.829mg/L	
19	Unknown	NPOC	HS24040954-05		04.25.2024.	1.000	NPOC:0.8624mg/L	
20	Unknown	NPOC	HS24041487-01		04.25.2024.	1.000	NPOC:22.80mg/L	
21	Unknown	NPOC	HS24041698-01DF10		04.25.2024.	1.000	NPOC:0.9665mg/L	
22	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.13mg/L	
23	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09643mg/	
24	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.67mg/L	
25	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1426mg/L	
26	Unknown	NPOC	MBLK-04252024		TOC_W 906	1.000	NPOC:0.1161mg/L	
27	Unknown	NPOC	LCS-04252024	3100607917	TOC_W 906	1.000	NPOC:5.011mg/L	
28	Unknown	NPOC	LCSD-04052024		TOC_W 906	1.000	NPOC:5.047mg/L	
29	Unknown	NPOC	HS24041538-14DF10		TOC_W 906	1.000	NPOC:5.009mg/L	
30	Unknown	NPOC	HS24041538-15DF10		TOC_W 906	1.000	NPOC:3.637mg/L	
31	Unknown	NPOC	HS24041538-16DF10		TOC_W 906	1.000	NPOC:3.855mg/L	
32	Unknown	NPOC	HS24041538-17DF10		TOC_W 906	1.000	NPOC:6.520mg/L	
33	Unknown	NPOC	HS24040801-07		TOC_W 906	1.000	NPOC:4.786mg/L	
34	Unknown	NPOC	HS24040801-07MS		TOC_W 906	1.000	NPOC:12.22mg/L	
35	Unknown	NPOC	HS24040885-01		TOC_W 906	1.000	NPOC:59.40mg/L	
36	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.81mg/L	
37	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2311mg/L	
38	Unknown	NPOC	HS24040885-02		TOC_W 906	1.000	NPOC:40.86mg/L	
39	Unknown	NPOC	HS24040885-03		TOC_W 906	1.000	NPOC:44.30mg/L	
40	Unknown	NPOC	HS24040885-06		TOC_W 906	1.000	NPOC:76.29mg/L	
41	Unknown	NPOC	HS24041341-11DF10		TOC_W 906	1.000	NPOC:9.155mg/L	
42	Unknown	NPOC	HS24041341-12DF10		TOC_W 906	1.000	NPOC:2.129mg/L	
43	Unknown	NPOC	HS24041341-13DF10		TOC_W 906	1.000	NPOC:20.08mg/L	
44	Unknown	NPOC	HS24041341-14DF10		TOC_W 906	1.000	NPOC:2.533mg/L	
45	Unknown	NPOC	HS24041604-08DF10		TOC_W 906	1.000	NPOC:1.071mg/L	
46	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.86mg/L	
47	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1935mg/L	

	Status	Date / Time	Vial
1	Completed	4/25/2024 8:19:26	1, 2, 3, 4, 5,
2	Completed	4/25/2024 8:31:26	8
3	Completed	4/25/2024 8:51:24	1
4	Completed	4/25/2024 9:14:05	9
5	Completed	4/25/2024 9:23:12	10
6	Completed	4/25/2024 9:33:46	11
7	Completed	4/25/2024 9:45:46	12
8	Completed	4/25/2024 9:57:15	13
9	Completed	4/25/2024 10:08:5	14
10	Completed	4/25/2024 10:21:0	15
11	Completed	4/25/2024 10:29:5	16
12	Completed	4/25/2024 10:42:5	17
13	Completed	4/25/2024 10:54:4	18
14	Completed	4/25/2024 11:05:5	19
15	Completed	4/25/2024 11:17:2	20
16	Completed	4/25/2024 11:40:1	9
17	Completed	4/25/2024 11:49:1	10
18	Completed	4/26/2024 12:11:1	21
19	Completed	4/26/2024 12:21:3	22
20	Completed	4/26/2024 12:33:5	23
21	Completed	4/26/2024 12:44:1	24
22	Completed	4/26/2024 1:06:44	9
23	Completed	4/26/2024 1:15:39	10
24	Completed	4/26/2024 1:34:03	25
25	Completed	4/26/2024 1:45:52	26
26	Completed	4/26/2024 2:00:42	11
27	Completed	4/26/2024 2:14:48	12
28	Completed	4/26/2024 2:29:16	13
29	Completed	4/26/2024 2:46:43	27
30	Completed	4/26/2024 3:00:36	28
31	Completed	4/26/2024 3:14:21	29
32	Completed	4/26/2024 3:28:38	30
33	Completed	4/26/2024 3:42:41	31
34	Completed	4/26/2024 3:57:39	32
35	Completed	4/26/2024 4:13:23	33
36	Completed	4/26/2024 4:31:56	25
37	Completed	4/26/2024 4:43:46	26
38	Completed	4/26/2024 5:02:09	34
39	Completed	4/26/2024 5:17:31	35
40	Completed	4/26/2024 5:33:05	36
41	Completed	4/26/2024 5:47:28	37
42	Completed	4/26/2024 6:00:56	38
43	Completed	4/26/2024 6:16:22	39
44	Completed	4/26/2024 6:29:56	40
45	Completed	4/26/2024 6:42:50	41
46	Completed	4/26/2024 7:01:22	25
47	Completed	4/26/2024 7:12:55	26

HS24061164 Wetchem TOC_W ICAL

ALS WO# HS24061164

TOC-Control L Report

2024_04_25_001.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/Sparge Kit/
Catalyst	Regular Sensitivity

Cal. Curve

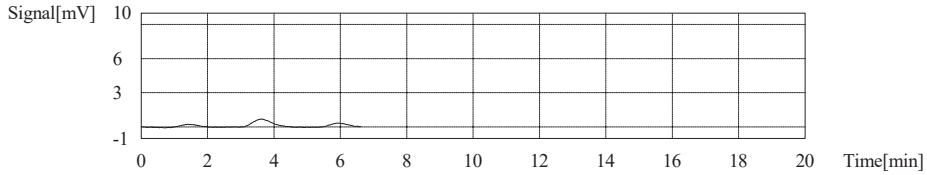
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.25.2024.2024_04_25_18_47_38.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.030	50uL	1.000	*******		4/25/2024 7:02:15 PM
2	2.685	50uL	1.000	*******		4/25/2024 7:05:10 PM
3	1.273	50uL	1.000	*******		4/25/2024 7:07:50 PM

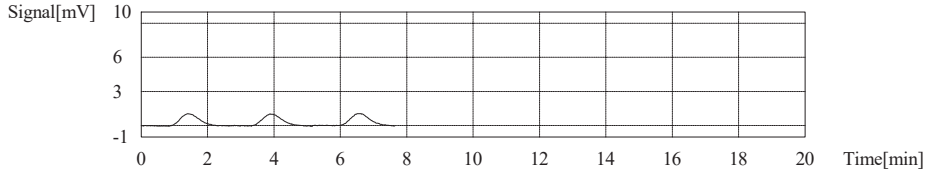
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 1.663



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.254	50uL	1.000	*******		4/25/2024 7:12:34 PM
2	4.362	50uL	1.000	*******		4/25/2024 7:15:50 PM
3	4.292	50uL	1.000	*******		4/25/2024 7:18:54 PM

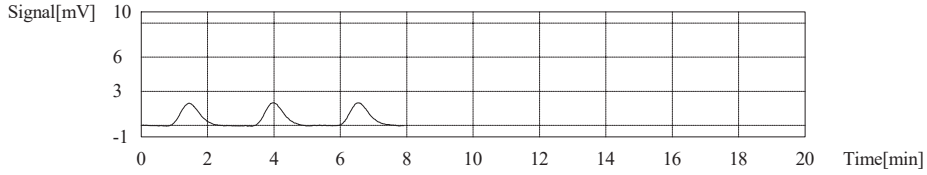
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 4.303



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.991	50uL	1.000	*******		4/25/2024 7:23:28 PM
2	8.033	50uL	1.000	*******		4/25/2024 7:26:37 PM
3	8.185	50uL	1.000	*******		4/25/2024 7:29:59 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 8.070



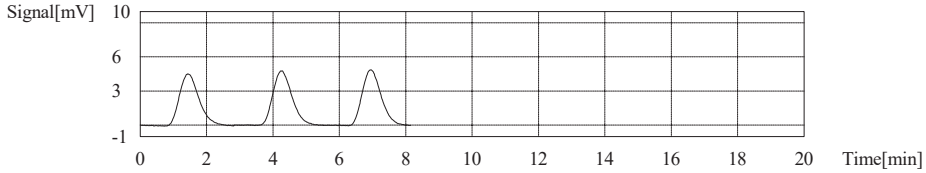
TOC-Control L Report

2024_04_25_001.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.78	50uL	1.000	*******		4/25/2024 7:34:48 PM
2	19.04	50uL	1.000	*******		4/25/2024 7:38:05 PM
3	19.36	50uL	1.000	*******		4/25/2024 7:41:18 PM

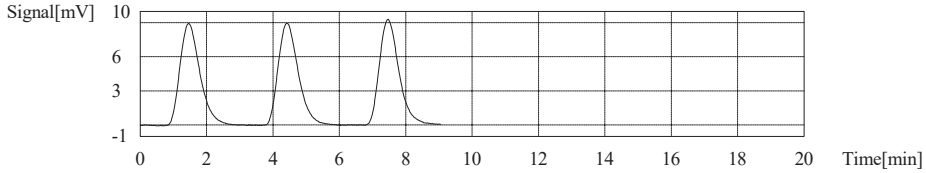
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 19.06



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.50	50uL	1.000	*******		4/25/2024 7:46:16 PM
2	37.56	50uL	1.000	*******		4/25/2024 7:49:55 PM
3	37.73	50uL	1.000	*******		4/25/2024 7:53:31 PM

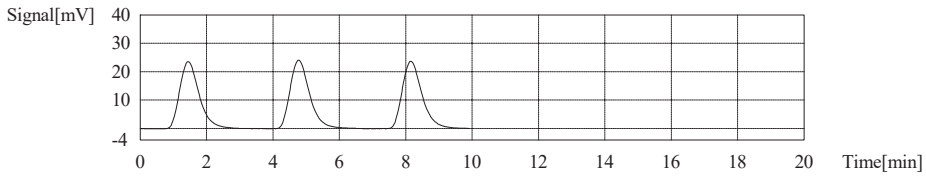
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 37.60



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	96.41	50uL	1.000	*******		4/25/2024 7:58:51 PM
2	97.85	50uL	1.000	*******		4/25/2024 8:02:48 PM
3	97.79	50uL	1.000	*******		4/25/2024 8:06:36 PM

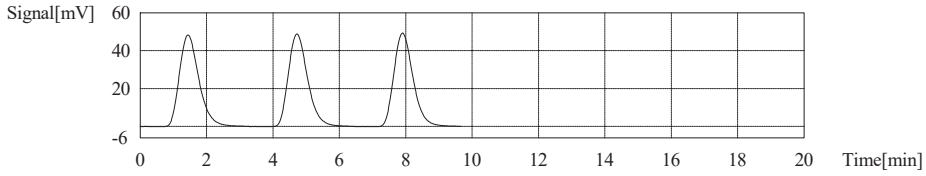
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 97.35



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.6	50uL	1.000	*******		4/25/2024 8:11:53 PM
2	196.0	50uL	1.000	*******		4/25/2024 8:15:38 PM
3	197.2	50uL	1.000	*******		4/25/2024 8:19:26 PM

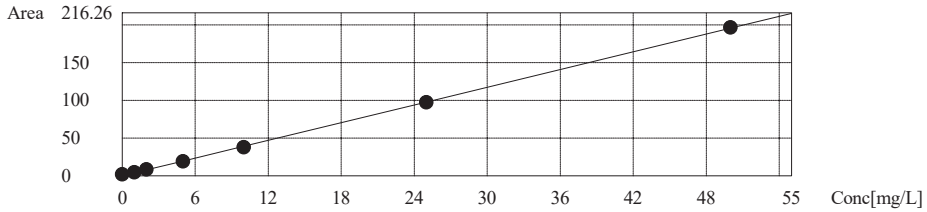
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 196.6



TOC-Control L Report

2024_04_25_001.tlx

Slope:	3.917
Intercept	0.000
r^2	0.9998
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

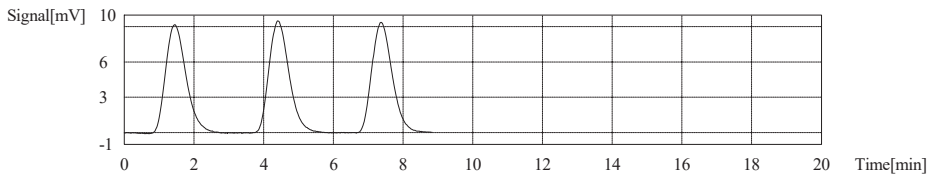
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.687mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.83	9.657mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:24:23 PM
2	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:27:56 PM
3	37.78	9.644mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:31:26 PM

Mean Area	37.95
Mean Conc.	9.687mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2979mg/L

1. Det

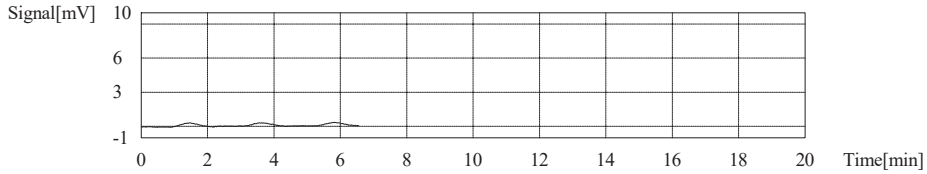
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.387	0.3541mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:45:53 PM
2	1.077	0.2749mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:48:39 PM
3	1.037	0.2647mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:51:24 PM

TOC-Control L Report

2024_04_25_001.tlx

Mean Area	1.167
Mean Conc.	0.2979mg/L



HS24061164 Wetchem TOC_W INJECT TABLE

ALS WO# HS24061164

C:\TOC-L\Data\2024_06_20_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	325105406	04.25.2024.	1.000	NPOC:25.63mg/L	
2	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.2422mg/L	
3	Unknown	NPOC	MBLK-06202024		04.25.2024.	1.000	NPOC:0.1170mg/L	
4	Unknown	NPOC	LCS-06202024	3100607917	04.25.2024.	1.000	NPOC:9.802mg/L	
5	Unknown	NPOC	LCSD-06202024		04.25.2024.	1.000	NPOC:9.753mg/L	
6	Unknown	NPOC	HS24060770-01DF10		04.25.2024.	1.000	NPOC:2.227mg/L	
7	Unknown	NPOC	HS24060659-01		04.25.2024.	1.000	NPOC:2.653mg/L	
8	Unknown	NPOC	HS24060812-01		04.25.2024.	1.000	NPOC:23.64mg/L	
9	Unknown	NPOC	HS24060812-01MS		04.25.2024.	1.000	NPOC:31.40mg/L	
10	Unknown	NPOC	HS24061164-01		04.25.2024.	1.000	NPOC:40.88mg/L	
11	Unknown	NPOC	CCV	325105406	04.25.2024.	1.000	NPOC:24.46mg/L	
12	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.7061mg/L	
13	Unknown	NPOC	CCV	325105406	04.25.2024.	1.000	NPOC:24.65mg/L	
14	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.3145mg/L	
15	Unknown	NPOC	MBLK-06202024		04.25.2024.	1.000	NPOC:0.1461mg/L	
16	Unknown	NPOC	LCS-06202024	3100607917	04.25.2024.	1.000	NPOC:9.322mg/L	
17	Unknown	NPOC	LCSD-06202024		04.25.2024.	1.000	NPOC:9.376mg/L	
18	Unknown	NPOC	HS24060430-01		04.25.2024.	1.000	NPOC:185.6mg/L	
19	Unknown	NPOC	HS24060430-01MS		04.25.2024.	1.000	NPOC:189.8mg/L	
20	Unknown	NPOC	HS24060430-02		04.25.2024.	1.000	NPOC:40.39mg/L	
21	Unknown	NPOC	HS24060430-03		04.25.2024.	1.000	NPOC:41.92mg/L	
22	Unknown	NPOC	CCV	325105406	04.25.2024.	1.000	NPOC:24.75mg/L	
23	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.2989mg/L	

	Status	Date / Time	Vial
1	Completed	6/20/2024 11:03:4	1
2	Completed	6/20/2024 11:13:5	2
3	Completed	6/20/2024 11:23:5	3
4	Completed	6/20/2024 11:36:5	4
5	Completed	6/20/2024 12:21:5	5
6	Completed	6/20/2024 12:33:4	6
7	Completed	6/20/2024 12:45:2	7
8	Completed	6/20/2024 12:58:3	8
9	Completed	6/20/2024 1:11:42	9
10	Completed	6/20/2024 1:25:05	10
11	Completed	6/20/2024 1:48:11	1
12	Completed	6/20/2024 1:59:02	2
13	Completed	6/20/2024 6:58:42	1
14	Completed	6/20/2024 7:09:11	2
15	Completed	6/20/2024 7:19:09	3
16	Completed	6/20/2024 7:31:27	4
17	Completed	6/20/2024 7:43:45	5
18	Completed	6/20/2024 8:08:12	11
19	Completed	6/20/2024 8:22:16	12
20	Completed	6/20/2024 8:35:36	13
21	Completed	6/20/2024 8:49:00	14
22	Completed	6/20/2024 9:12:21	1
23	Completed	6/20/2024 9:22:48	2

HS24061164 Wetchem TOC_W INJECT

ALS WO# HS24061164

TOC-Control L Report

Instr.Information

Instrument Options TOC/ASI/IC Unit/Sparge Kit/
Catalyst Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 325105406
Origin: 04.25.2024.cal
Status Completed
Chk. Result

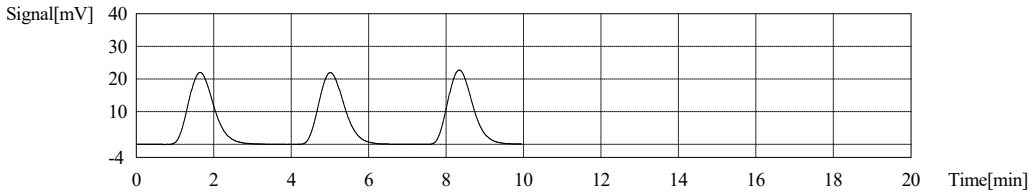
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.63mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	99.99	25.52mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 10:55:59 AM
2	100.3	25.60mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 10:59:54 AM
3	100.9	25.76mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 11:03:43 AM

Mean Area 100.4
Mean Conc. 25.63mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2422mg/L

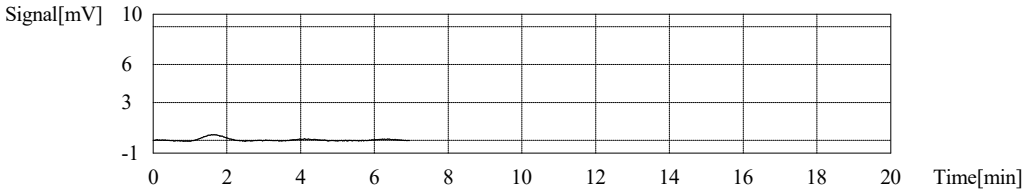
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.120	0.5412mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 11:08:15 AM
2	0.3110	0.07939mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 11:11:00 AM
3	0.4156	0.1061mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 11:13:51 AM

TOC-Control L Report

Mean Area 0.9489
Mean Conc. 0.2422mg/L



Sample

Sample Name: MBLK-06202024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

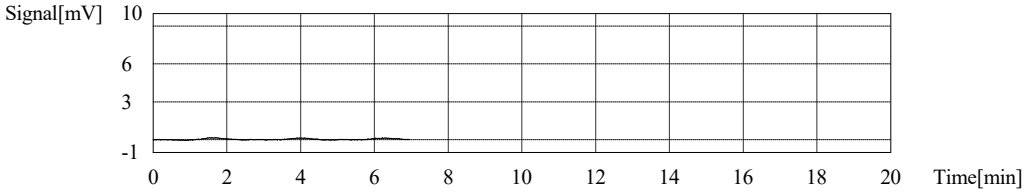
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1170mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6797	0.1735mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 11:18:13 AM
2	0.2537	0.06476mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 11:21:01 AM
3	0.4415	0.1127mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 11:23:57 AM

Mean Area 0.4583
Mean Conc. 0.1170mg/L



Sample

Sample Name: LCS-06202024
Sample ID: 3100607917
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.802mg/L

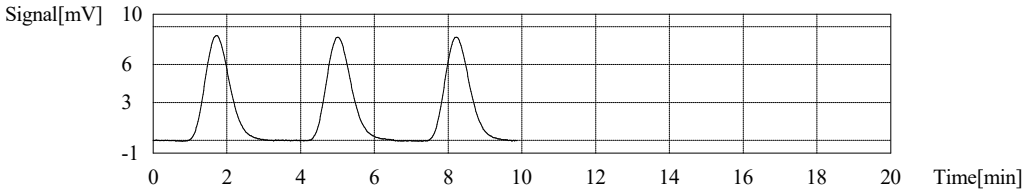
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.84	9.915mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 11:29:16 AM
2	38.00	9.700mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 11:33:04 AM
3	38.35	9.790mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 11:36:59 AM

TOC-Control L Report

Mean Area 38.40
Mean Conc. 9.802mg/L



Sample

Sample Name: LCSD-06202024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

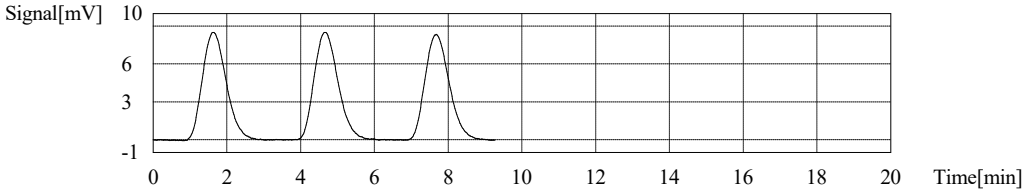
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.753mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.57	9.846mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 12:14:32 PM
2	37.99	9.698mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 12:18:07 PM
3	38.06	9.716mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 12:21:56 PM

Mean Area 38.21
Mean Conc. 9.753mg/L



Sample

Sample Name: HS24060812-01MS
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:31.40mg/L

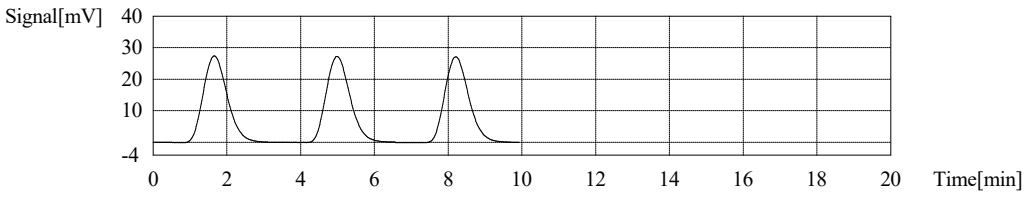
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	124.1	31.68mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:03:59 PM
2	122.2	31.19mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:07:47 PM
3	122.7	31.32mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:11:42 PM

TOC-Control L Report

Mean Area 123.0
Mean Conc. 31.40mg/L



Sample

Sample Name: HS24061164-01
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

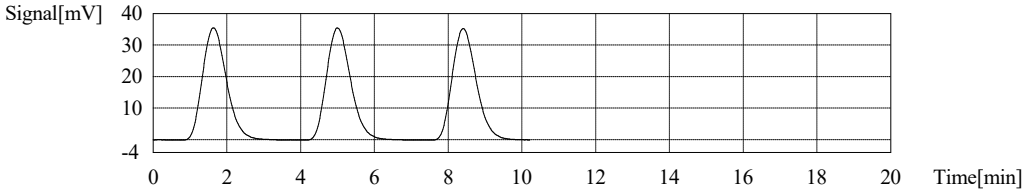
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:40.88mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	160.0	40.84mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:17:04 PM
2	161.0	41.10mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:21:03 PM
3	159.4	40.69mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:25:05 PM

Mean Area 160.1
Mean Conc. 40.88mg/L



Sample

Sample Name: CCV
Sample ID: 325105406
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.46mg/L

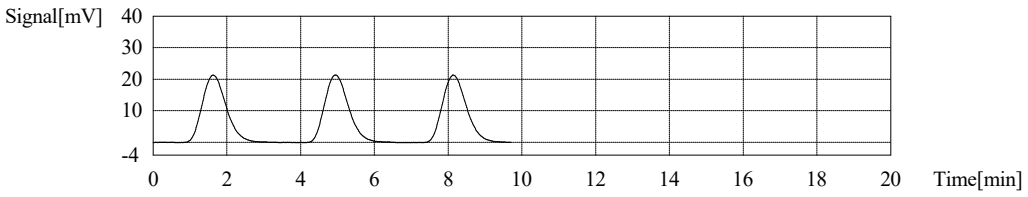
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	96.07	24.52mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:40:39 PM
2	95.26	24.32mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:44:25 PM
3	96.09	24.53mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:48:11 PM

TOC-Control L Report

Mean Area 95.81
Mean Conc. 24.46mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

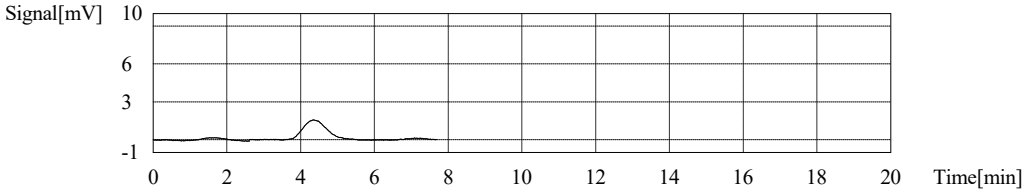
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7061mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9392	0.2398mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:52:47 PM
2	6.955	1.775mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:56:18 PM
3	0.4041	0.1032mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	6/20/2024 1:59:02 PM

Mean Area 2.766
Mean Conc. 0.7061mg/L



HS24061164 E2400706 Perch Level IV Report

ALS WO# HS24061164

June 26, 2024 Service Request No:E2400706

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: Perchlorates

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2024
For your reference, these analyses have been assigned our service request number **E2400706.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400706
Project:	Perchlorates	**Date Received:**	06/19/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two samples were received for analysis at ALS Environmental in Houston on 06/19/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400335: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400706
Project: Perchlorates

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400706-001	LH18/24-SP650_061824_BIX	6/18/2024	1300
E2400706-002	LH18/24-SP650_061824_AIX	6/18/2024	1300

Service Request Summary

Folder #: **E2400706**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5E
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400706-001	LH18/24-SP650_061824_BIX	Water	06/18/24 1300	**IV**
E2400706-002	LH18/24-SP650_061824_AIX	Water	06/18/24 1300	**IV**

Service Request Summary

Folder #: **E2400706**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/19/24
Internal Due Date: 7/1/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5E
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

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Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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ALS Laboratory Group
Perchlorates

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **26072**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24061164
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24061164-02**	**LH18/24-SP650_061824_BIX**	**Water**	**18 Jun 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			26 Jun 2024
2.	**HS24061164-03**	**LH18/24-SP650_061824_AIX**	**Water**	**18 Jun 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			26 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6/19/24 1404

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

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Sample Receipt Checklist

Work Order ID: HS24061164 **Date/Time received:** 19 Jun 2024 10:05

Client name: Bhate Environmental Associates, Inc. **Received by:** Belinda Gomez

Completed/By: 19 Jun 2024 13:34 (Date/Time) Belinda Gomez (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: w **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	1 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 3.4uc/3.5c ir31

Cooler Information: 1 Cooler(s), sm red

Date/Time sample(s) sent to storage: 6/19/2024 1335

Water - VOA vials have zero headspace?	☐ Yes	☐ No	☑ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400685-001	18CPTMW06_06224	.01	6850/ClO4 DOD			Water	10mL	
2	E2400685-002	MW22_061224	.01	6850/ClO4 DOD			Water	10mL	
3	E2400685-003	MW22_06224_a	.01	6850/ClO4 DOD			Water	10mL	
4	E2400685-004	MW6_06224	.01	6850/ClO4 DOD			Water	10mL	
5	E2400685-005	109_06224	.01	6850/ClO4 DOD			Water	10mL	
6	E2400685-006	MW21_06224	.01	6850/ClO4 DOD			Water	10mL	
7	E2400685-007	18CPTMW22SW_06224	.01	6850/ClO4 DOD			Water	10mL	
8	E2400685-008	MW20_06224	.01	6850/ClO4 DOD			Water	10mL	
9	E2400691-001	MW12_061324	.01	6850/ClO4 DOD			Water	10mL	
10	E2400691-002	1824DPTMW06_061324	.01	6850/ClO4 DOD			Water	10mL	
11	E2400691-003	AWD4_061324	.01	6850/ClO4 DOD			Water	10mL	
12	E2400691-004	18CPTMW15_061324	.01	6850/ClO4 DOD			Water	10mL	
13	E2400691-005	18WW09_061324	.01	6850/ClO4 DOD			Water	10mL	
14	E2400691-006	18WW08_061324	.01	6850/ClO4 DOD			Water	10mL	
15	E2400691-007	18WW22_061324	.01	6850/ClO4 DOD			Water	10mL	
16	E2400691-008	CO4_061324	.01	6850/ClO4 DOD			Water	10mL	
17	E2400702-001	2406120956A ST-3-735	.04	6850/ClO4			Water	10mL	
18	E2400702-002	2406121437A ST-3-586	.01	6850/ClO4			Water	10mL	
19	E2400706-001	LH18/24-SP650_061824_BIX	.01	6850/ClO4 DOD			Water	10mL	
20	E2400706-002	LH18/24-SP650_061824_AIX	.01	6850/ClO4 DOD			Water	10mL	
21	EQ2400335-01	MB		6850/ClO4			Liquid	10mL	
22	EQ2400335-02	LCS		6850/ClO4			Liquid	10mL	
23	EQ2400335-03	DLCS		6850/ClO4			Liquid	10mL	
24	EQ2400335-04	ICS		6850/ClO4			Liquid	10mL	
25	EQ2400335-05	MW12_061324 MS	.01	6850/ClO4 DOD			Liquid	10mL	
26	EQ2400335-06	MW12_061324 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400335-02 10.00µL EQ2400335-02 10.00µL EQ2400335-03 10.00µL EQ2400335-03 10.00µL EQ2400335-04 10.00µL EQ2400335-04 10.00µL
EQ2400335-05 10.00µL EQ2400335-06 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

Preparation Information Benchsheet

Prep Run#: 440426 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/21/24 08:25

E2400685-001	100.00µL	E2400685-002	100.00µL	E2400685-003	100.00µL	E2400685-004	100.00µL	E2400685-005	100.00µL	E2400685-006	100.00µL
E2400685-007	100.00µL	E2400685-008	100.00µL	E2400691-001	100.00µL	E2400691-002	100.00µL	E2400691-003	100.00µL	E2400691-004	100.00µL
E2400691-005	100.00µL	E2400691-006	100.00µL	E2400691-007	100.00µL	E2400691-008	100.00µL	E2400702-001	100.00µL	E2400702-002	100.00µL
E2400706-001	100.00µL	E2400706-002	100.00µL	EQ2400335-01	100.00µL	EQ2400335-01	100.00µL	EQ2400335-02	100.00µL	EQ2400335-02	100.00µL
EQ2400335-03	100.00µL	EQ2400335-03	100.00µL	EQ2400335-04	100.00µL	EQ2400335-04	100.00µL	EQ2400335-05	100.00µL	EQ2400335-06	100.00µL

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/21/24 08:25
Finished: 6/21/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Collected:**	6/18/24 1300
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	LH18/24-SP650_061824_BIX	**Units:**	µg/L
Lab Code:	E2400706-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 14:03	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Collected:**	6/18/24 1300
Sample Matrix:	Water	**Date Received:**	6/19/24
Sample Name:	LH18/24-SP650_061824_AIX	**Units:**	µg/L
Lab Code:	E2400706-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1.17**		0.100	0.0500	0.0250	1	6/21/24	6/21/24 14:09	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400335-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/21/24	6/21/24 10:17	440426	845357	

Accuracy & Precision

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Analyzed:**	06/21/24
Sample Matrix:	Water	**Date Extracted:**	06/21/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	845357

	Lab Control Sample EQ2400335-02			Duplicate Lab Control Sample EQ2400335-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0934 J	0.100	93	0.0974 J	0.100	97	84-119	4	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0934**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:36	440426	845357	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400706
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400335-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0974**	J	0.100	0.0500	0.0250	1	6/21/24	6/21/24 12:42	440426	845357	

Initial Calibration

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843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

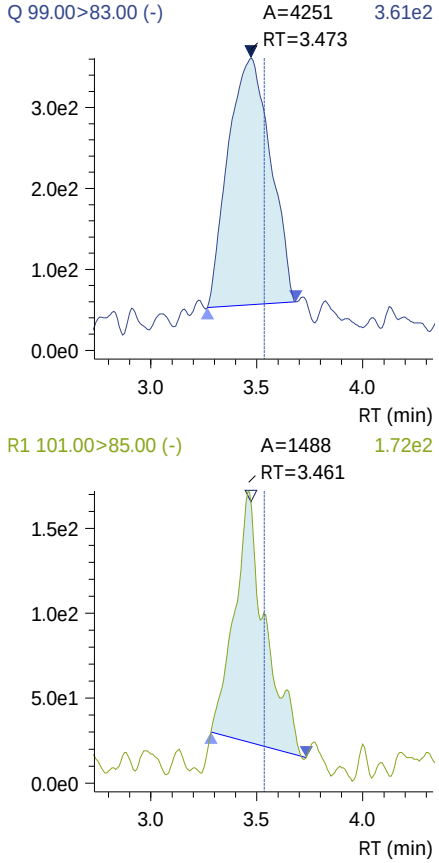
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

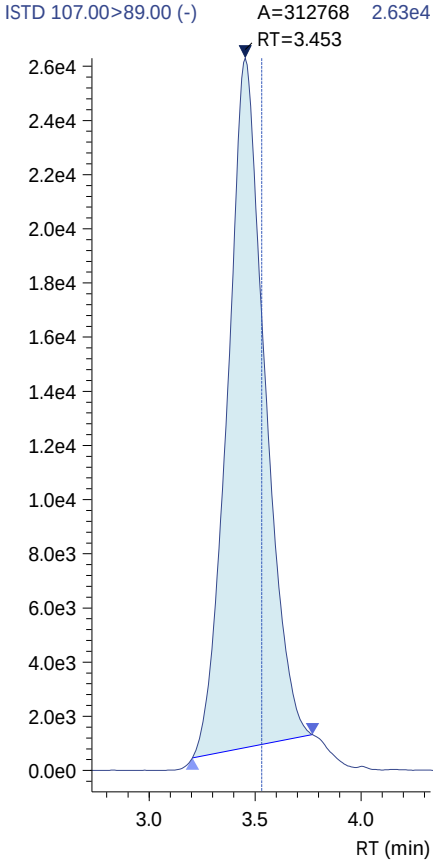
Perchlorate

Conc 0.0931
R#1 35.01 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

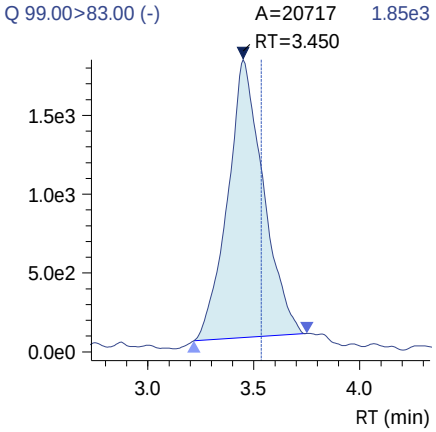
Perchlorate ICAL 2

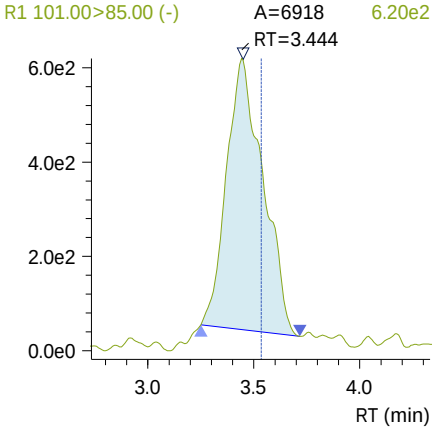
Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

Perchlorate

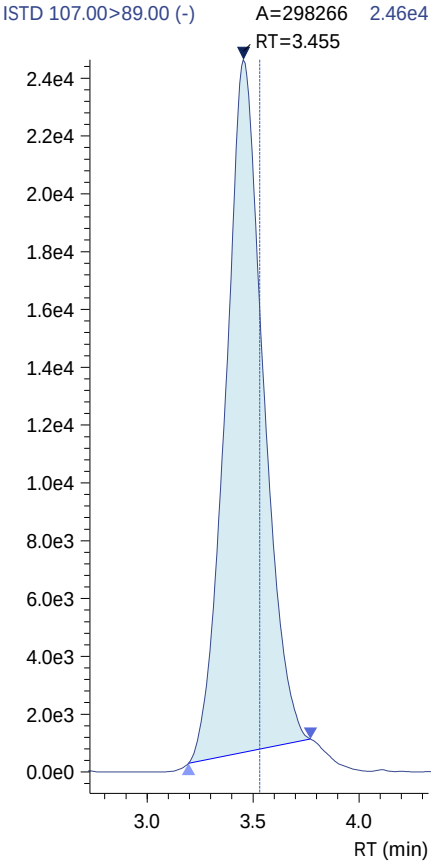
Conc 0.4757
R#1 33.39 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

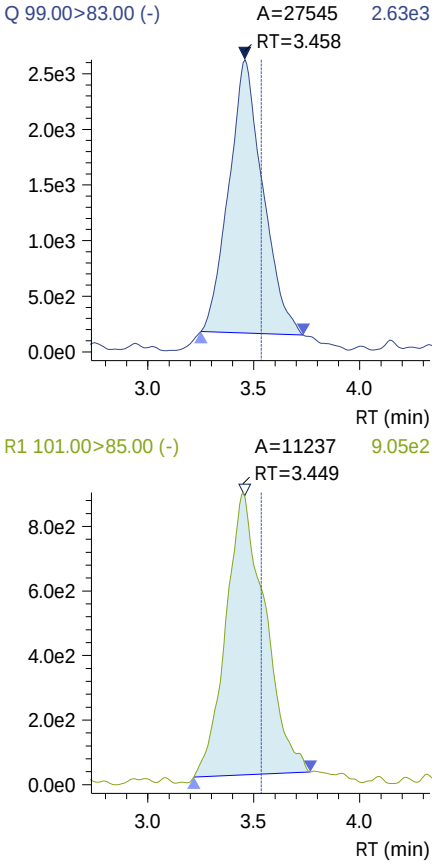
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

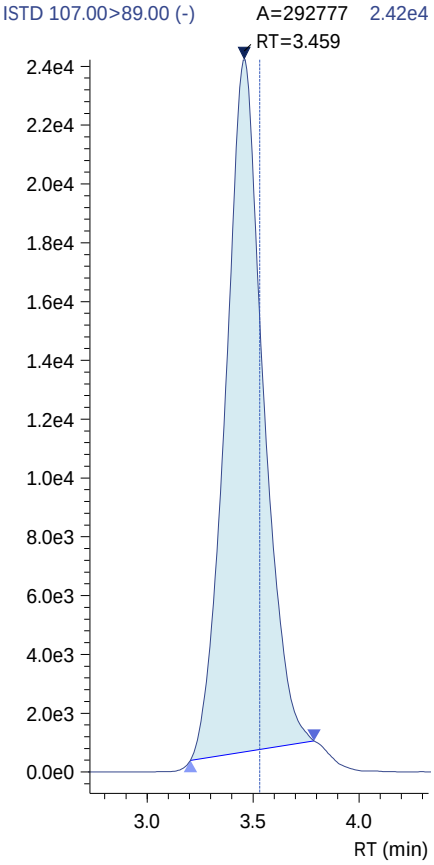
Perchlorate

Conc 0.6444
R#1 40.79 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

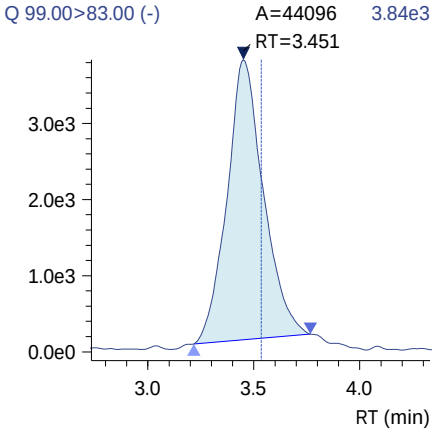
Perchlorate ICAL 4

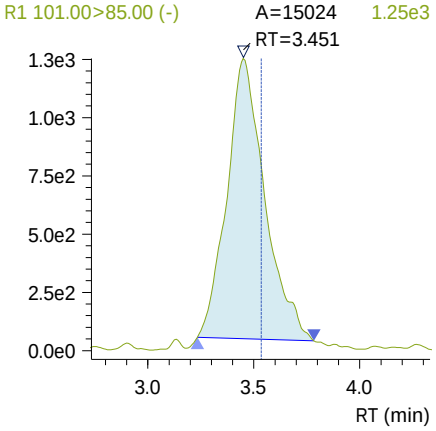
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

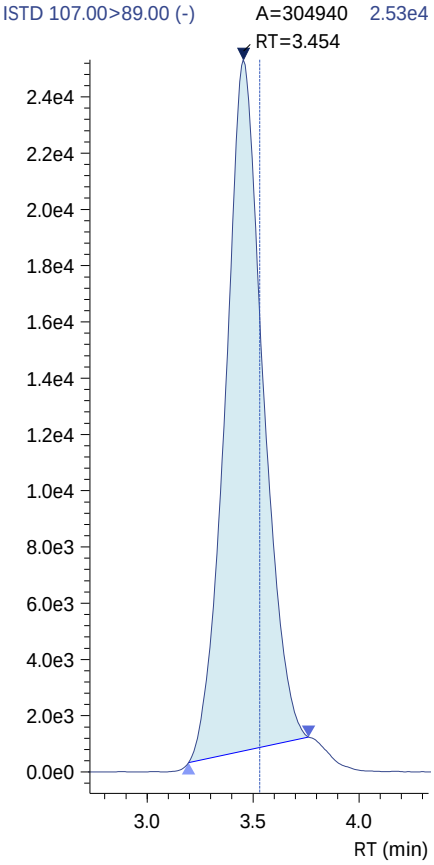
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

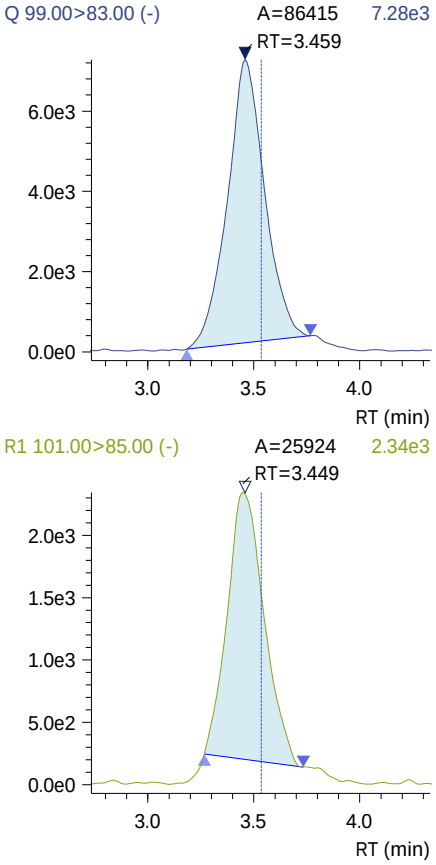
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

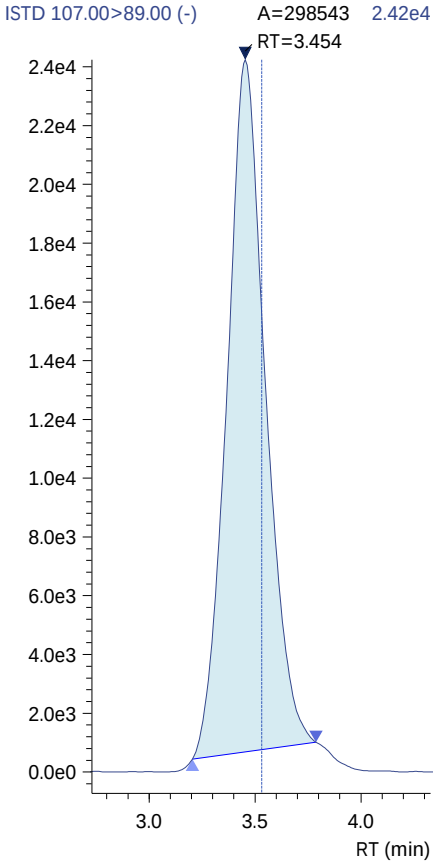
Perchlorate

Conc 1.9825
R#1 30.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

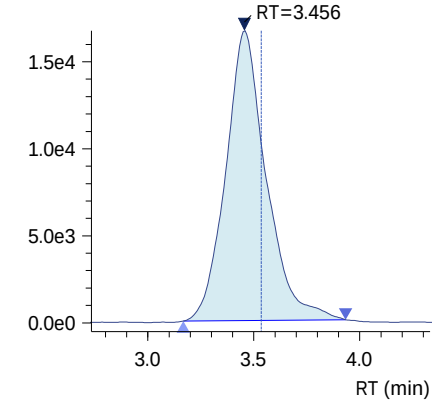
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

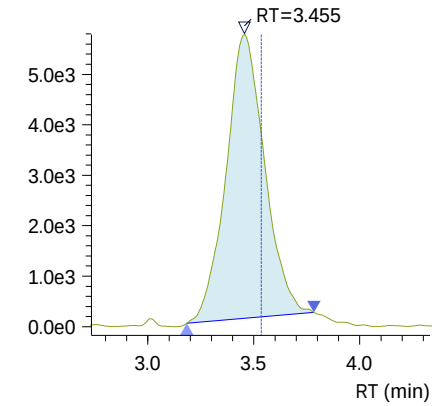
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4 RT=3.456



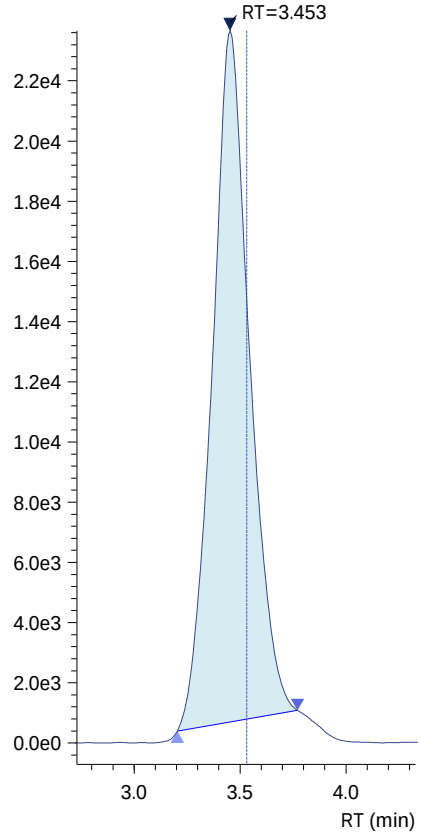
R1 101.00>85.00 (-) A=71270 5.79e3 RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4 RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

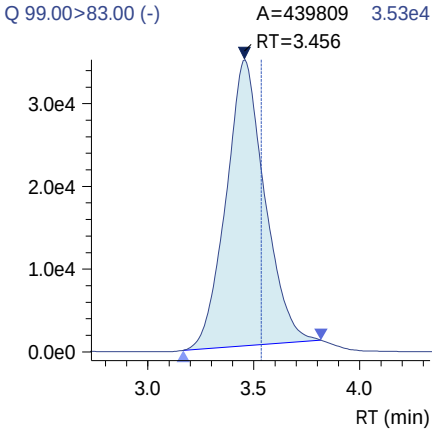
Perchlorate ICAL 7

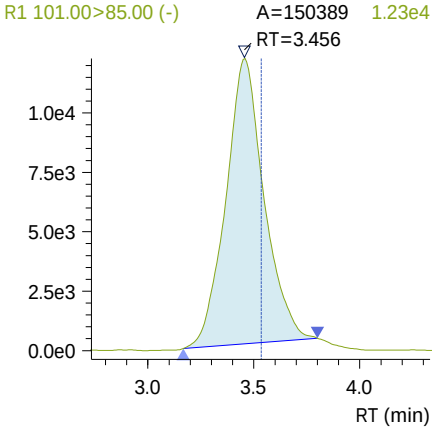
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

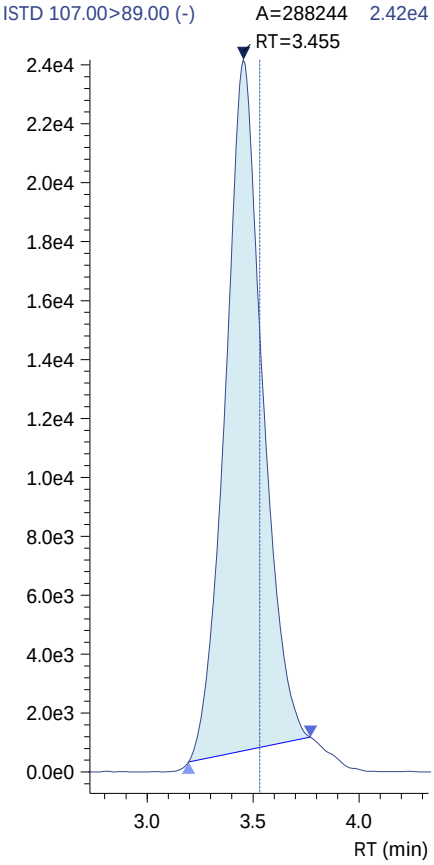
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

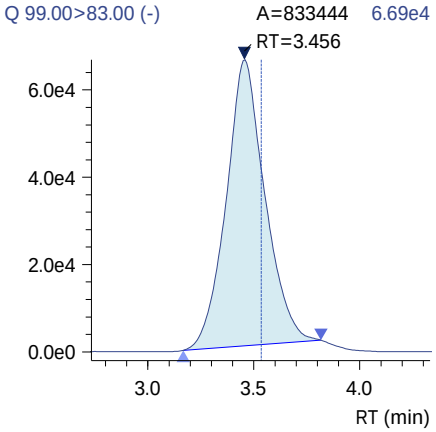
Perchlorate ICAL 8

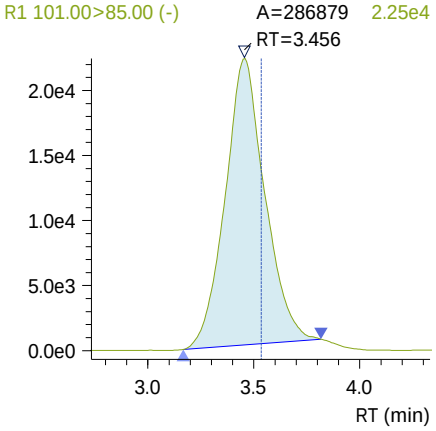
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9 364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

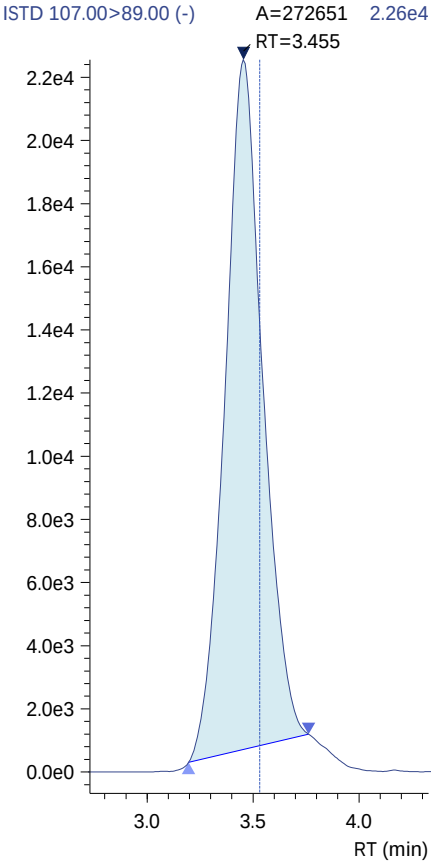
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

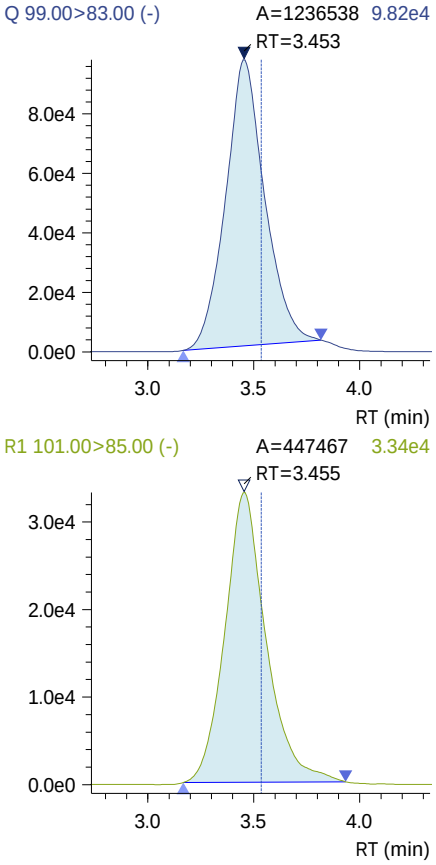
Perchlorate ICAL 9

Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365	276997	30.5	ng/mL	101.00	36.19	23.50
			38		749		>85.00		-43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

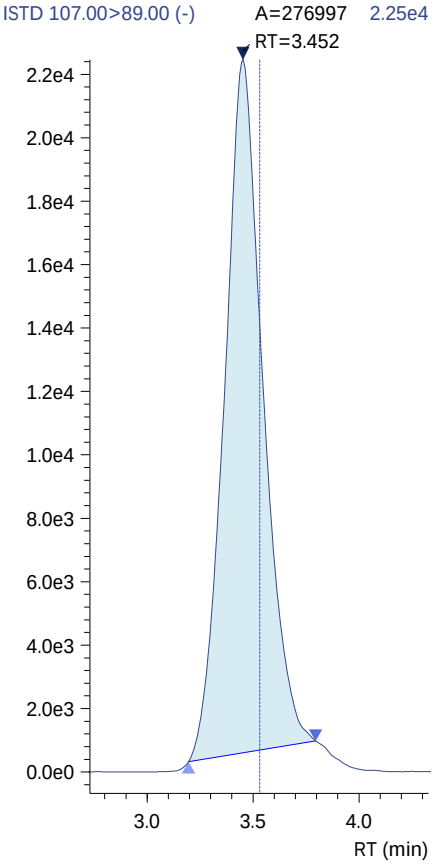
Perchlorate

Conc 30.5749
R#1 36.19 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

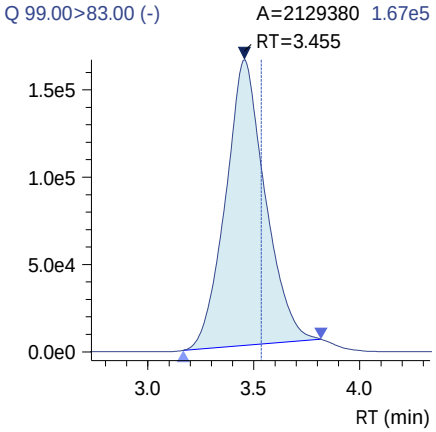
Perchlorate ICAL 10

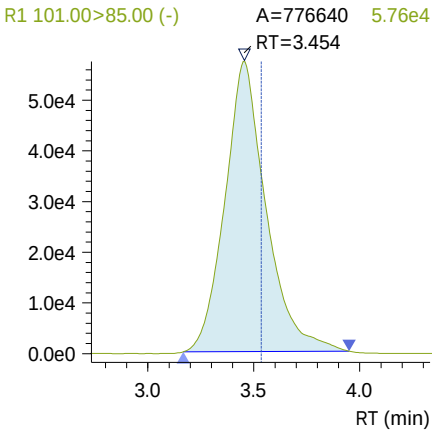
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

Perchlorate

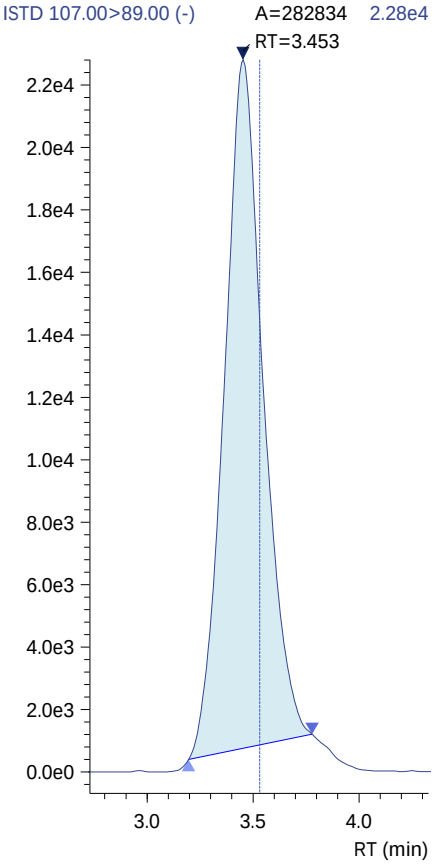
Conc 51.5649
R#1 36.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

PerchlorateICV

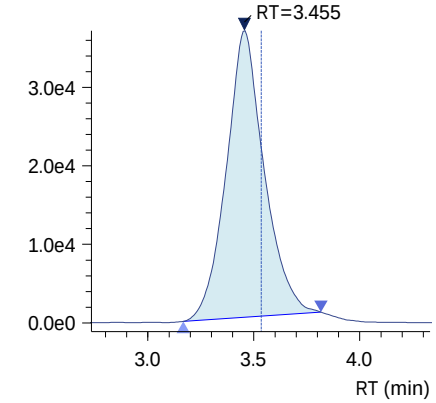
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2 823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

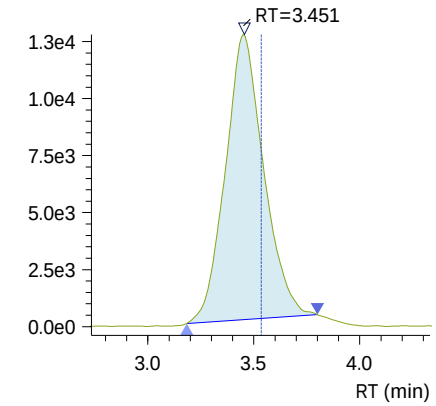
Perchlorate

Conc 10.2823
R#1 34.53 (34.10)

Q 99.00>83.00 (-) A=455590 3.72e4
RT=3.455



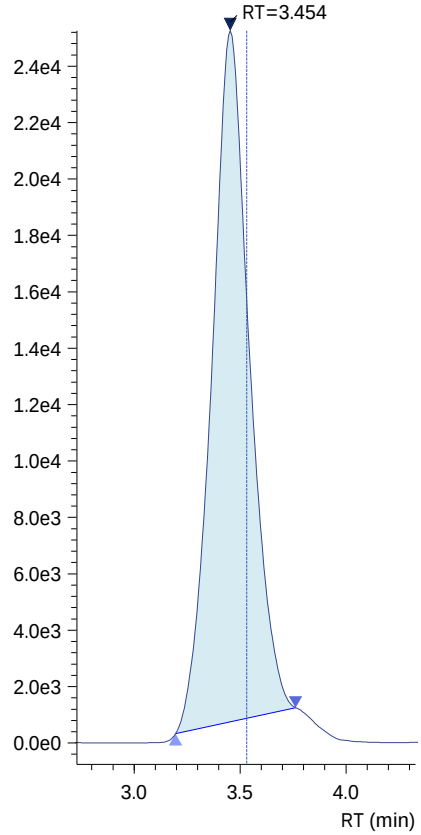
R1 101.00>85.00 (-) A=157312 1.28e4
RT=3.451



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=303470 2.53e4
RT=3.454



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240621-001	IB	Perchlorate6850c.lcm	1x		6/21/2024 8:56
2	20240621-002	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:01
3	20240621-003	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:07
4	20240621-004	LODV	Perchlorate6850c.lcm	1x		6/21/2024 9:12
5	20240621-005	ICS	Perchlorate6850c.lcm	1x	DNU	6/21/2024 9:18
6	20240621-006	CCV	Perchlorate6850c.lcm	1x		6/21/2024 9:23
7	20240621-007	IB	Perchlorate6850c.lcm	1x		6/21/2024 9:29
8	20240621-008	EQ2400335-01MB	Perchlorate6850c.lcm	1x		6/21/2024 10:17
9	20240621-009	EQ2400335-02LCS	Perchlorate6850c.lcm	1x		6/21/2024 12:36
10	20240621-010	EQ2400335-03DLCS	Perchlorate6850c.lcm	1x		6/21/2024 12:42
11	20240621-011	EQ2400335-04ICS	Perchlorate6850c.lcm	1x		6/21/2024 12:47
12	20240621-012	E2400687-007x10	Perchlorate6850c.lcm	10x		6/21/2024 12:53
13	20240621-013	E2400687-008x10	Perchlorate6850c.lcm	10x		6/21/2024 12:58
14	20240621-014	E2400687-009x10	Perchlorate6850c.lcm	10x		6/21/2024 13:04
15	20240621-015	EQ2400332-05MSx10	Perchlorate6850c.lcm	10x		6/21/2024 13:13
16	20240621-016	EQ2400332-06DMSx10	Perchlorate6850c.lcm	10x		6/21/2024 13:19
17	20240621-017	EQ2400335-05MS	Perchlorate6850c.lcm	1x		6/21/2024 13:24
18	20240621-018	EQ2400335-06DMS	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:30
19	20240621-019	CCV	Perchlorate6850c.lcm	1x		6/21/2024 13:36
20	20240621-020	IB	Perchlorate6850c.lcm	1x		6/21/2024 13:41
21	20240621-021	EQ2400335-06DMS	Perchlorate6850c.lcm	1x		6/21/2024 13:47
22	20240621-022	E2400702-001	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:52
23	20240621-023	E2400702-002	Perchlorate6850c.lcm	1x	DNU	6/21/2024 13:58
24	20240621-024	E2400706-001	Perchlorate6850c.lcm	1x		6/21/2024 14:03
25	20240621-025	E2400706-002	Perchlorate6850c.lcm	1x		6/21/2024 14:09
26	20240621-026	E2400685-001	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:14
27	20240621-027	E2400685-002	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:20
28	20240621-028	E2400685-003	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:25
29	20240621-029	E2400685-004	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:31
30	20240621-030	E2400685-005	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:37
31	20240621-031	CCV	Perchlorate6850c.lcm	1x		6/21/2024 14:42
32	20240621-032	IB	Perchlorate6850c.lcm	1x		6/21/2024 14:48
33	20240621-033	E2400685-006	Perchlorate6850c.lcm	1x	DNU	6/21/2024 14:57
34	20240621-034	E2400685-007	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:02
35	20240621-035	E2400685-008	Perchlorate6850c.lcm	1x		6/21/2024 15:08
36	20240621-036	E2400691-001	Perchlorate6850c.lcm	1x		6/21/2024 15:13
37	20240621-037	E2400691-002	Perchlorate6850c.lcm	1x		6/21/2024 15:19
38	20240621-038	E2400691-003	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:24
39	20240621-039	E2400691-004	Perchlorate6850c.lcm	1x	DNU	6/21/2024 15:30
40	20240621-040	E2400691-005	Perchlorate6850c.lcm	1x		6/21/2024 15:35
41	20240621-041	E2400691-006	Perchlorate6850c.lcm	1x		6/21/2024 15:41

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
42	20240621-042	E2400691-007	Perchlorate6850c.lcm	1x		6/21/2024 15:46
43	20240621-043	CCV	Perchlorate6850c.lcm	1x		6/21/2024 15:52
44	20240621-044	IB	Perchlorate6850c.lcm	1x		6/21/2024 15:57
45	20240621-045	E2400691-008	Perchlorate6850c.lcm	1x		6/21/2024 16:03
46	20240621-046	E2400702-001x10	Perchlorate6850c.lcm	10x		6/21/2024 16:09
47	20240621-047	E2400702-002x10	Perchlorate6850c.lcm	10x		6/21/2024 16:14
48	20240621-048	E2400685-002x100	Perchlorate6850c.lcm	100x		6/21/2024 16:20
49	20240621-049	E2400685-003x100	Perchlorate6850c.lcm	100x		6/21/2024 16:25
50	20240621-050	E2400685-004x100	Perchlorate6850c.lcm	100x		6/21/2024 16:31
51	20240621-051	E2400685-005x200	Perchlorate6850c.lcm	200x		6/21/2024 16:36
52	20240621-052	CCV	Perchlorate6850c.lcm	1x		6/21/2024 16:42
53	20240621-053	IB	Perchlorate6850c.lcm	1x		6/21/2024 16:47

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400706
Date Analyzed: 6/21/24 09:23

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-006
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-01
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-01	179,641	3.45
Method Blank	EQ2400335-01	176,581	3.45
Lab Control Sample	EQ2400335-02	212,039	3.45
Duplicate Lab Control Sample	EQ2400335-03	210,352	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400706
Date Analyzed: 6/21/24 13:36

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-019
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-02
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-02	205,946	3.44
LH18/24-SP650_061824_BIX	E2400706-001	232,095	3.45
LH18/24-SP650_061824_AIX	E2400706-002	221,763	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400706
Date Analyzed: 6/21/24 14:42

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-031
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-03
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-03	211,144	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US **Service Request:** E2400706
Project: Perchlorates **Date Analyzed:** 6/21/24 15:52

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-043 **Lab Code:** EQ2400348-04
Instrument ID: E-LCMS-01 **Analysis Lot:** 845357
Analytical Method: 6850 **Signal ID:** 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-04	202,336	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400706
Date Analyzed: 6/21/24 16:42

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240621\20240621-052
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400348-05
Analysis Lot: 845357
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400348-05	207,383	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400706
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-006

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.83	0.1460	0.1436	-1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400706
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-019

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1460	0.1482	1.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400706
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-031

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.32	0.1460	0.1361	-6.8	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400706
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-043

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.46	0.1460	0.1382	-5.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400706
Date Analyzed: 6/21/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240621\20240621-052

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845357
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.16	0.1460	0.1338	-8.4	NA	± 15 %	Average RF

Insight Report

Printed at 6/25/2024 12:31:04 PM

Method File: I:\LCMS01\DATA\20240621\20240621.lcm
Project File: I:\LCMS01\DATA\20240621\20240621.damlp

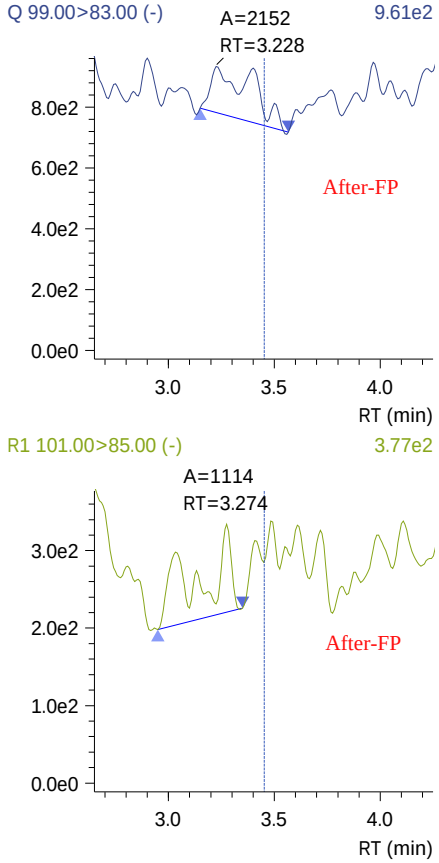
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:07:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	173255	----	ng/mL	101.00 >85.00	51.76	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.454	173255	173255	1.0000	ng/mL	----	----	

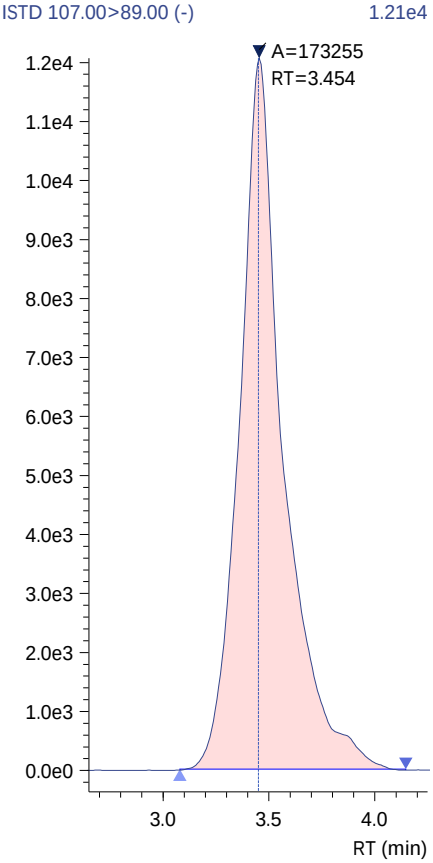
Perchlorate

Conc ----
R#1 51.76 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

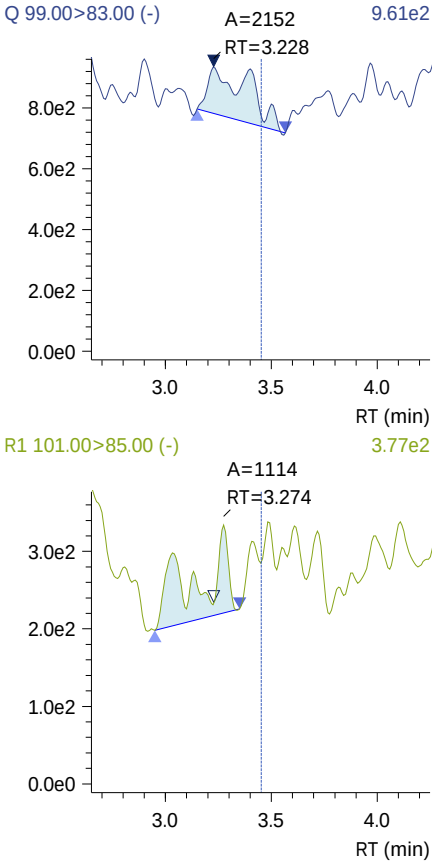
Method File: I:\LCMS01\DATA\20240621\20240621.lcm
Project File: I:\LCMS01\DATA\20240621\20240621.damlp

IB

Sample ID: IB
Date Acquired: 6/21/2024 9:07:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

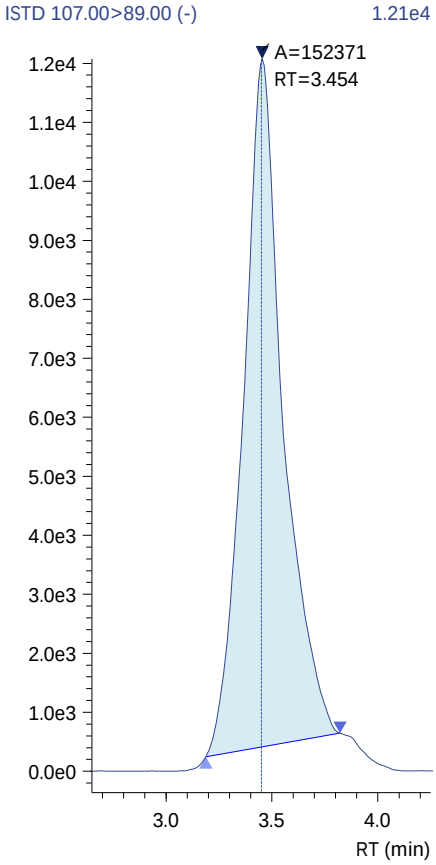
Perchlorate

Conc 0.0967
R#1 51.76 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:04 PM

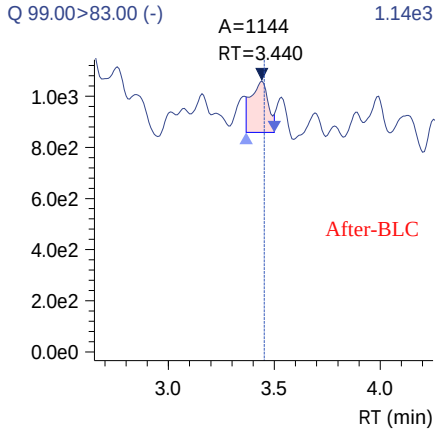
LODV

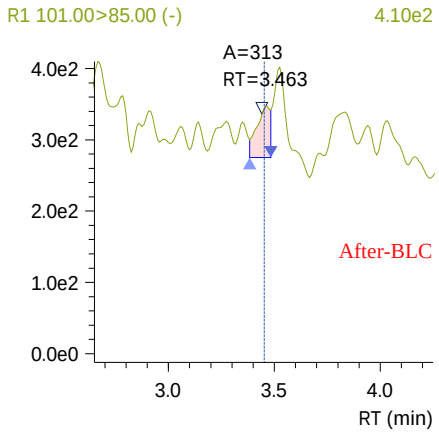
Sample ID: LODV
Date Acquired: 6/21/2024 9:12:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.440	1144	164052	0.0477	ng/mL	101.00 >85.00	27.42	23.46 -43.30
Sodium Perchlorate-18O4 _IS	Auto	3.457	1640 52	164052	1.0000	ng/mL	----	----	

Perchlorate

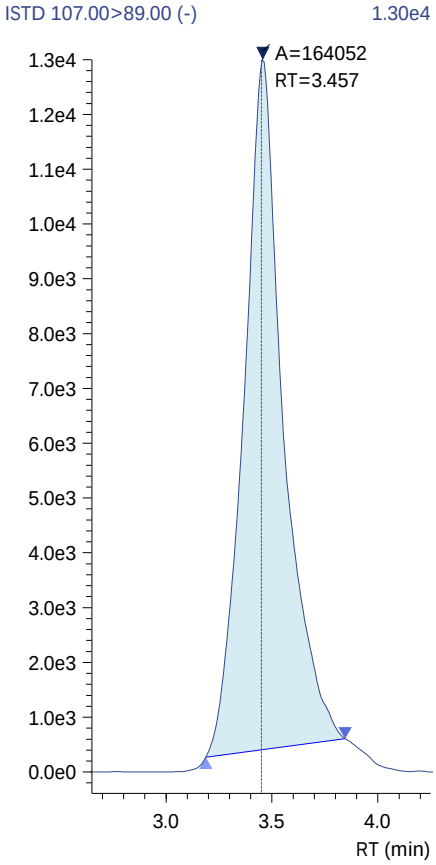
Conc 0.0477
R#1 27.42 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

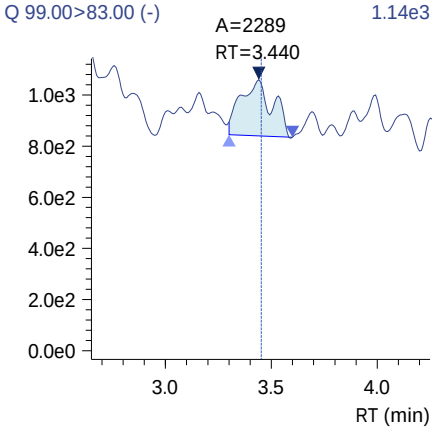
LODV

Sample ID: LODV
Date Acquired: 6/21/2024 9:12:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

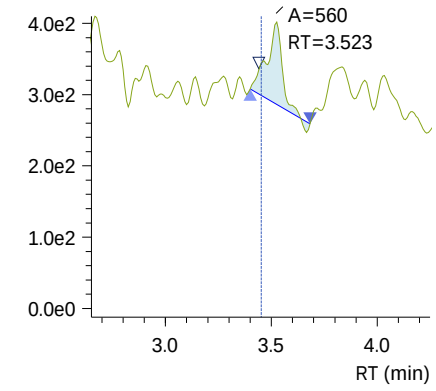
Perchlorate

Conc 0.0956
R#1 24.48 (35.24)

Q 99.00>83.00 (-) 1.14e3



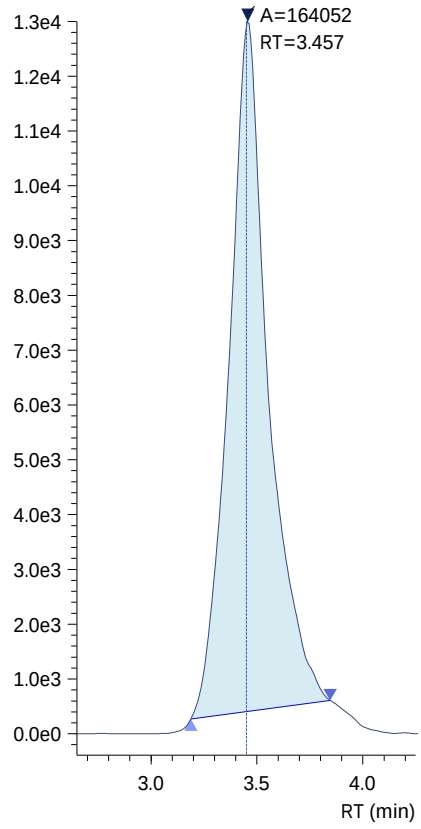
R1 101.00>85.00 (-) 4.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.30e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

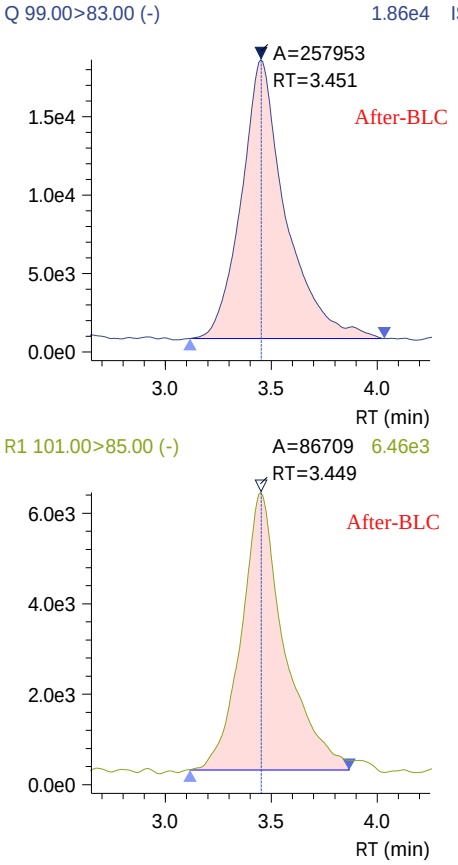
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 9:23:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.451	257953	179641	9.8348	ng/mL	101.00 >85.00	33.61	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	179641	179641	1.0000	ng/mL	----	----	

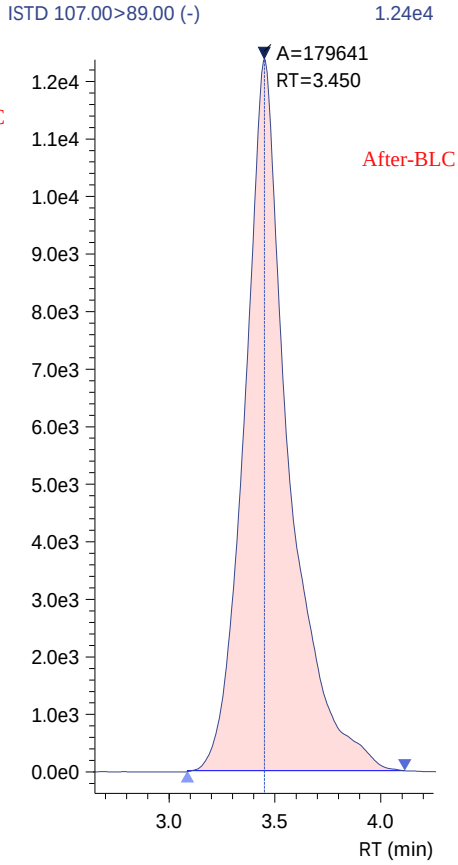
Perchlorate

Conc 9.8348
R#1 33.61 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

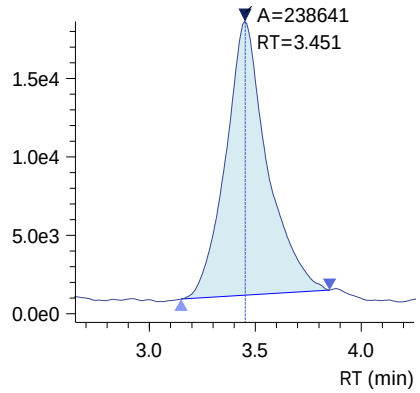
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 9:23:39 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

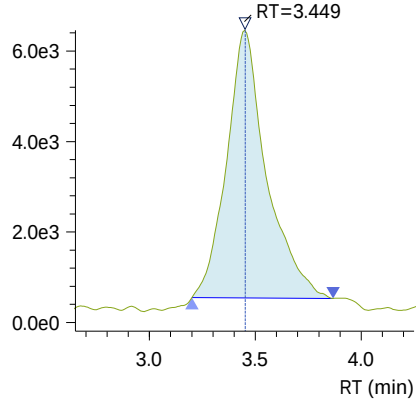
Perchlorate

Conc 10.3651
R#1 32.58 (35.24)

Q 99.00>83.00 (-) 1.86e4



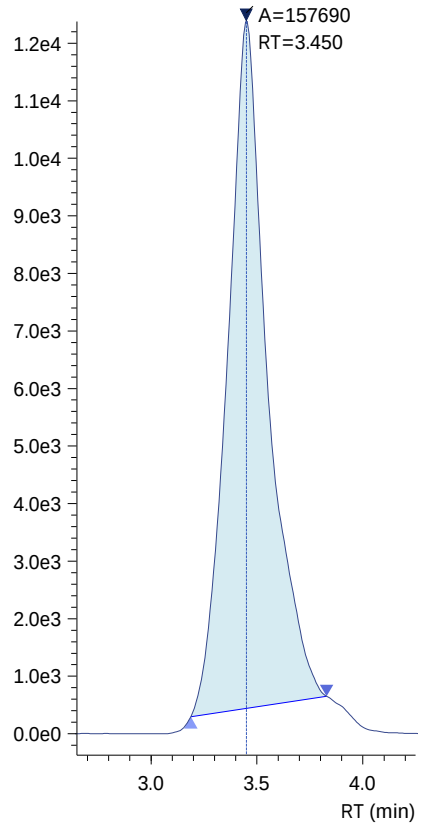
R1 101.00>85.00 (-) A=77739 6.46e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

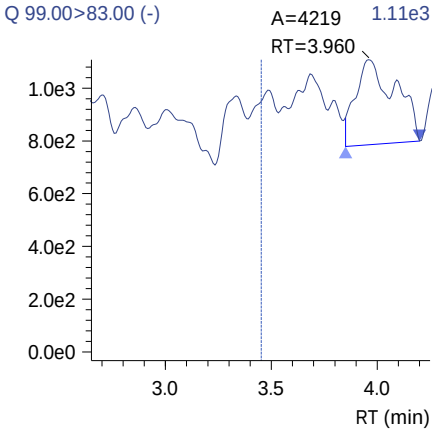
IB

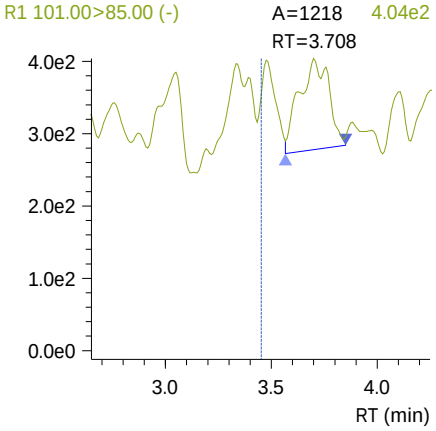
Sample ID: IB
Date Acquired: 6/21/2024 9:29:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	179856	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	179856	179856	1.0000	ng/mL	----	----	

Perchlorate

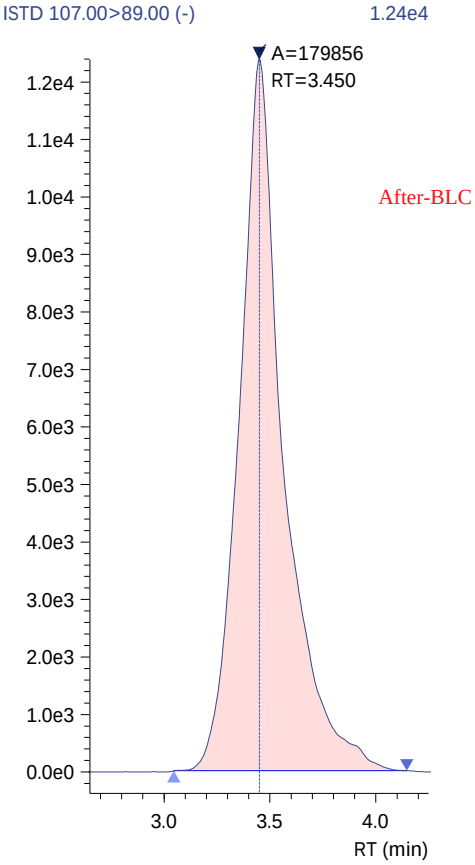
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/25/2024 12:31:43 PM

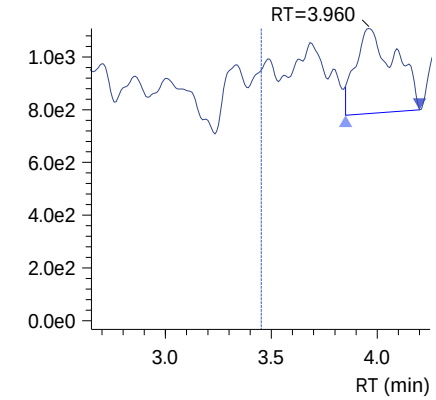
IB

Sample ID: IB
Date Acquired: 6/21/2024 9:29:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

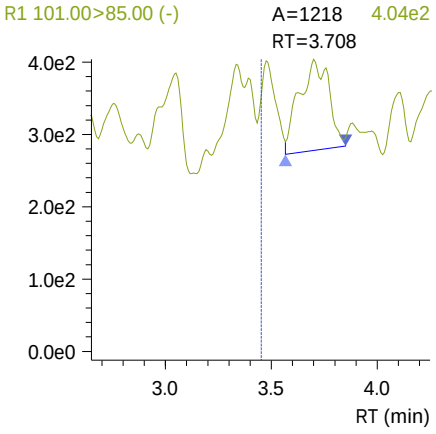
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=4219 1.11e3



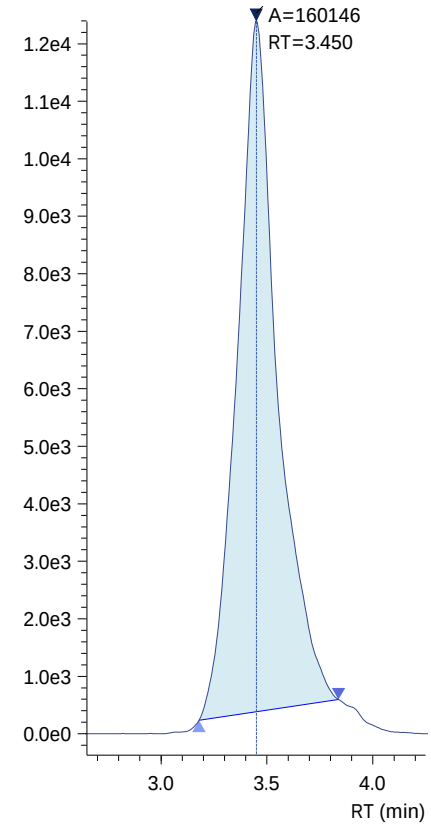
R1 101.00>85.00 (-) A=1218 4.04e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.24e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

EQ2400335-01MB

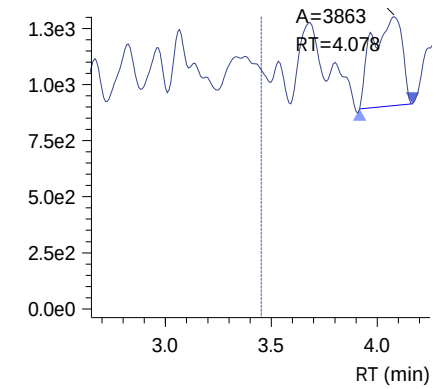
Sample ID: EQ2400335-01MB
Date Acquired: 6/21/2024 10:17:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	176581	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.449	176581	176581	1.0000	ng/mL	----	----	

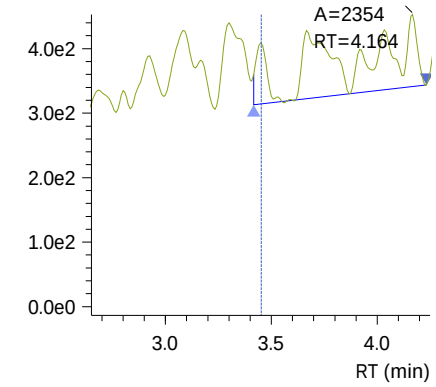
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.30e3



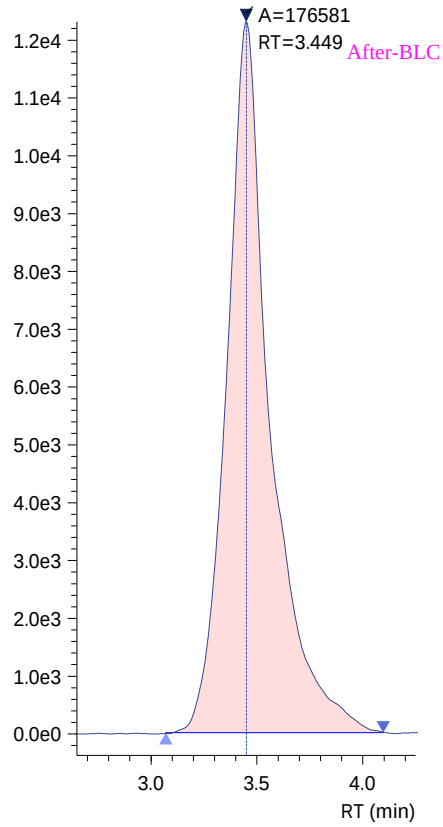
R1 101.00>85.00 (-) 4.53e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.23e4



Insight Report

Printed at 6/26/2024 11:50:37 AM

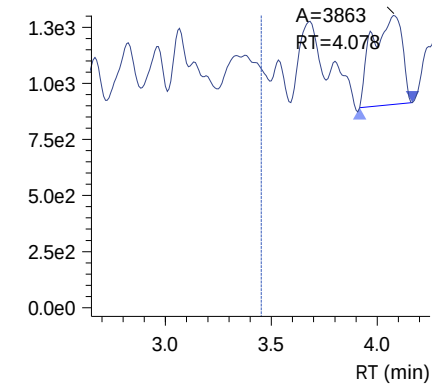
EQ2400335-01MB

Sample ID: EQ2400335-01MB
Date Acquired: 6/21/2024 10:17:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 3

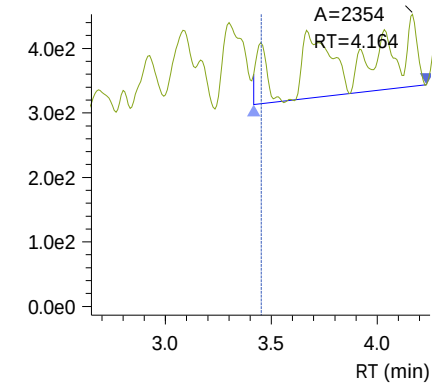
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.30e3



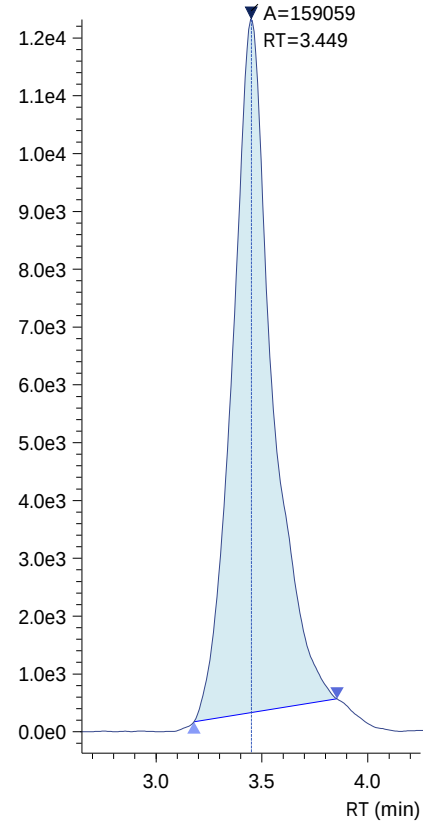
R1 101.00>85.00 (-) 4.53e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.23e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

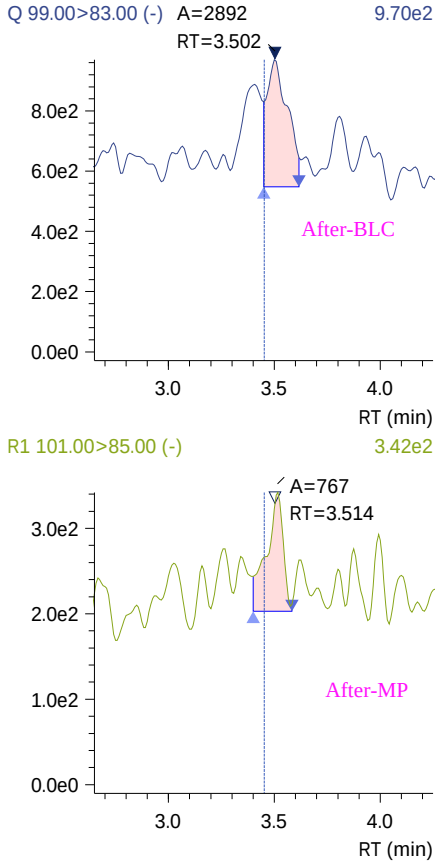
EQ2400335-02LCS

Sample ID: EQ2400335-02LCS
Date Acquired: 6/21/2024 12:36:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.502	2892	212039	0.0934	ng/mL	101.00 >85.00	26.52	23.46 -43.30
Sodium Perchlorate-18O4 _IS	M	3.445	2120 39	212039	1.0000	ng/mL	----	----	

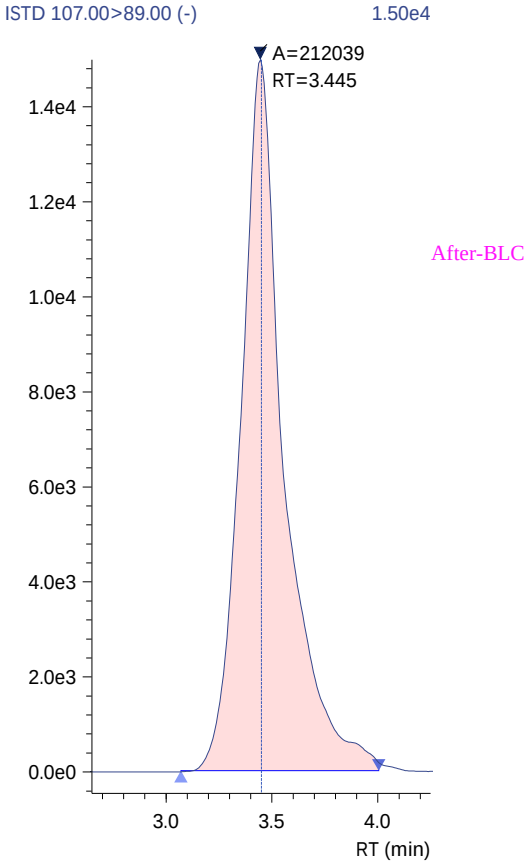
Perchlorate

Conc 0.0934
R#1 26.52 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

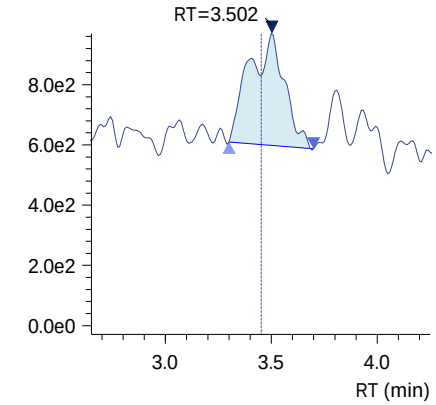
EQ2400335-02LCS

Sample ID: EQ2400335-02LCS
Date Acquired: 6/21/2024 12:36:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 3

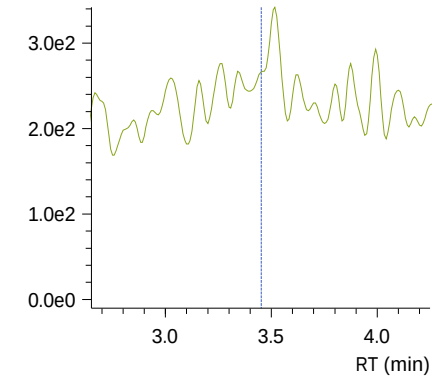
Perchlorate

Conc 0.1556
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=4308 9.70e2



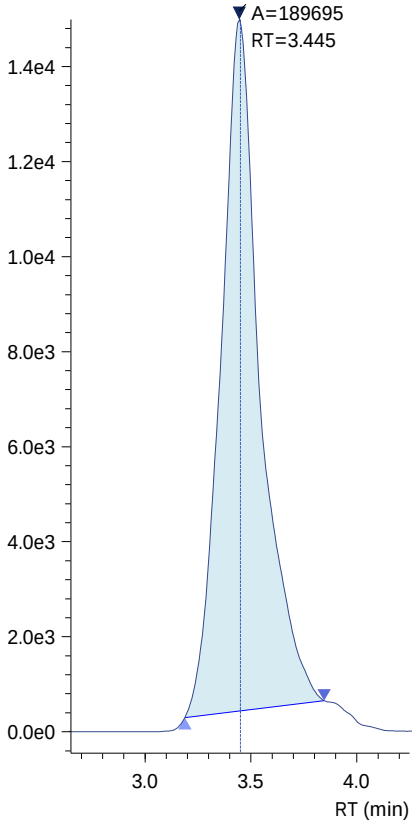
R1 101.00>85.00 (-) 3.42e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

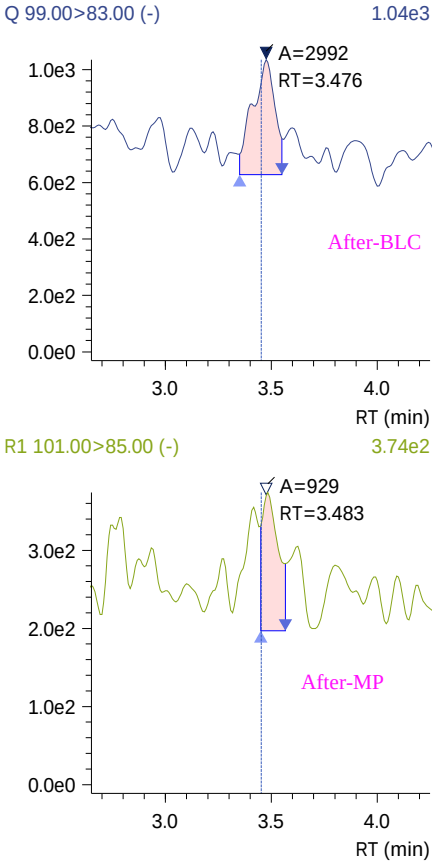
EQ2400335-03DLCS

Sample ID: EQ2400335-03DLCS
Date Acquired: 6/21/2024 12:42:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.476	2992	210352	0.0974	ng/mL	101.00 >85.00	31.05	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.444	210352	210352	1.0000	ng/mL	----	----	

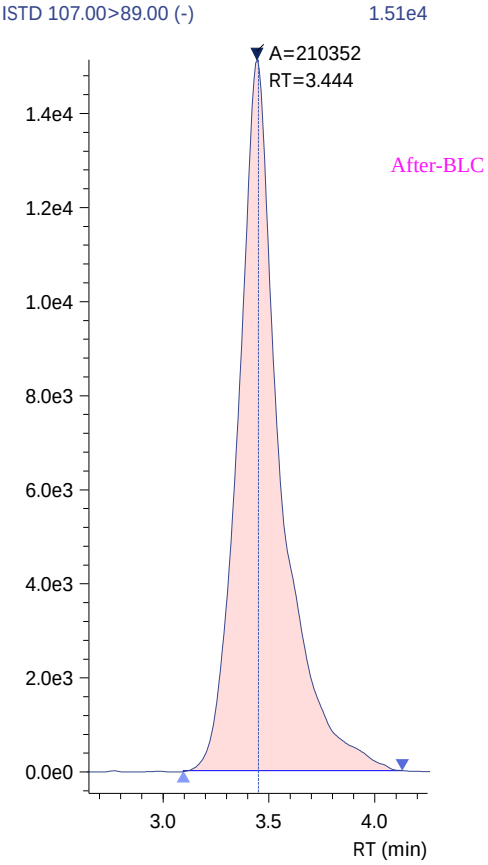
Perchlorate

Conc 0.0974
R#1 31.05 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

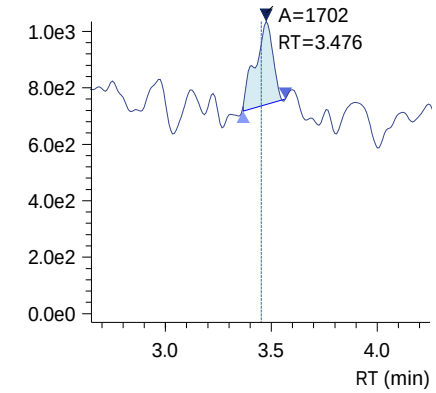
EQ2400335-03DLCS

Sample ID: EQ2400335-03DLCS
Date Acquired: 6/21/2024 12:42:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 3

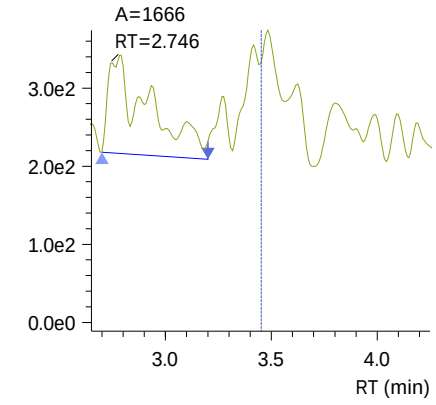
Perchlorate

Conc 0.0625
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.04e3



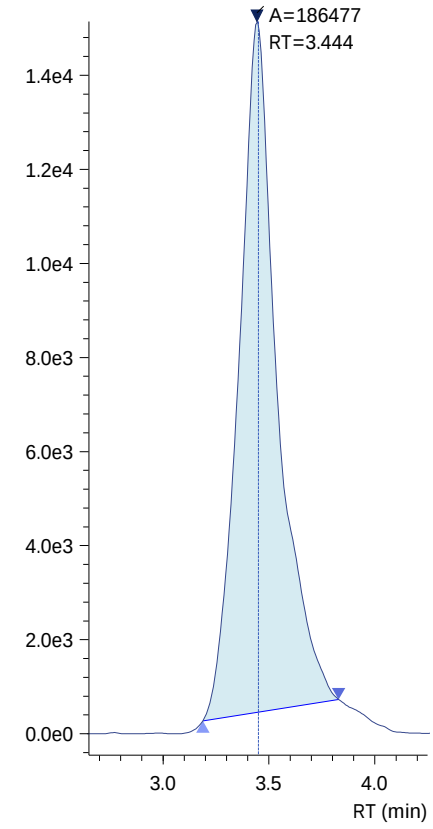
R1 101.00>85.00 (-) 3.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.51e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

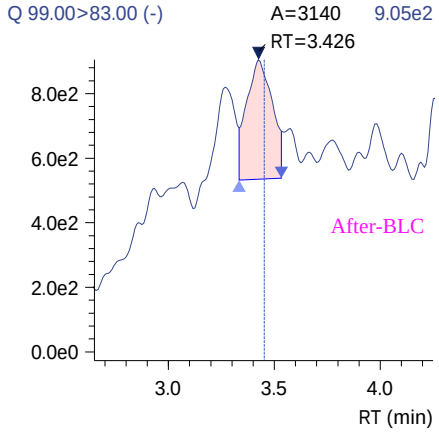
EQ2400335-04ICS

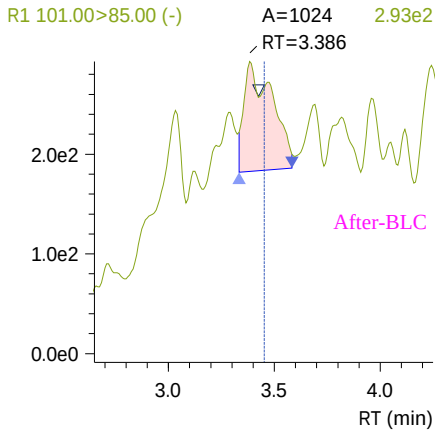
Sample ID: EQ2400335-04ICS
Date Acquired: 6/21/2024 12:47:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.426	3140	203937	0.1055	ng/mL	101.00 >85.00	32.61	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.443	203937	203937	1.0000	ng/mL	----	----	

Perchlorate

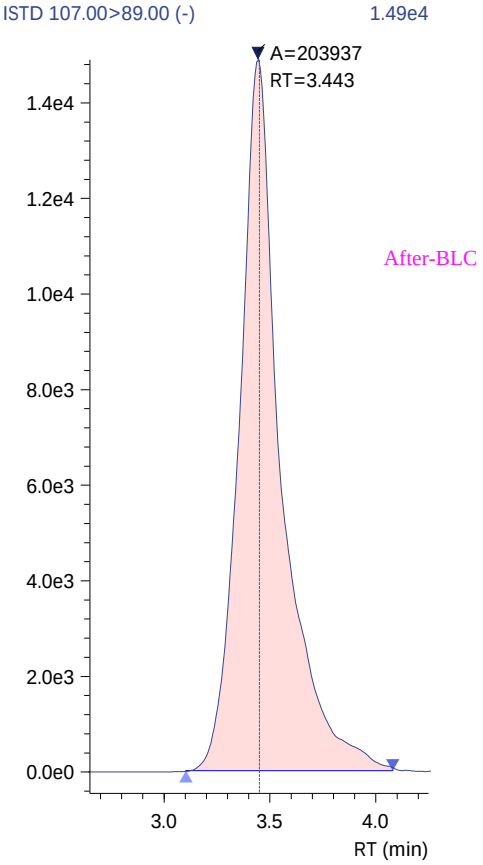
Conc 0.1055
R#1 32.61 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/26/2024 11:50:37 AM

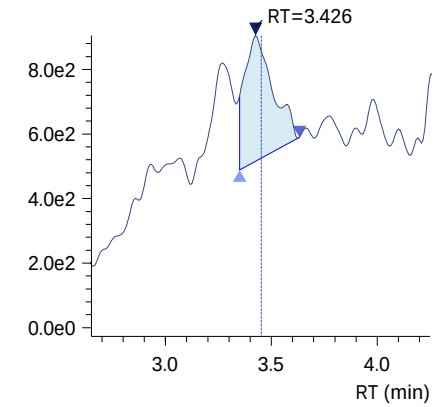
EQ2400335-04ICS

Sample ID: EQ2400335-04ICS
Date Acquired: 6/21/2024 12:47:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 3

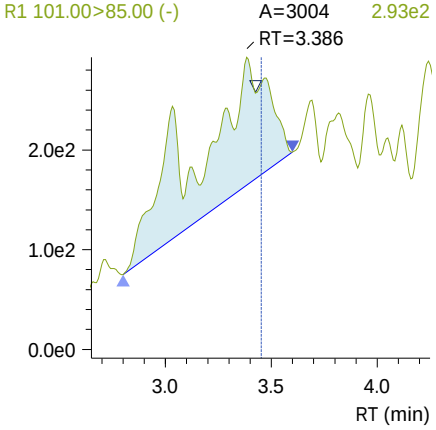
Perchlorate

Conc 0.1361
R#1 83.13 (35.24)

Q 99.00>83.00 (-) A=3614 9.05e2



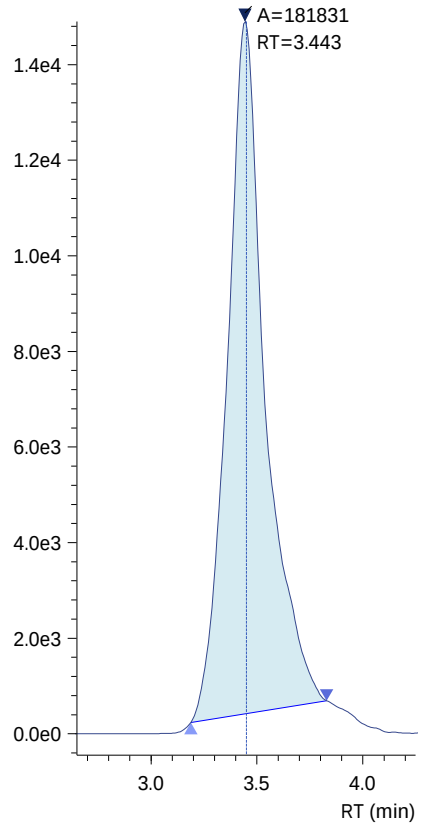
R1 101.00>85.00 (-) A=3004 2.93e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.49e4



Insight Report

Printed at 6/25/2024 12:31:04 PM

CCV

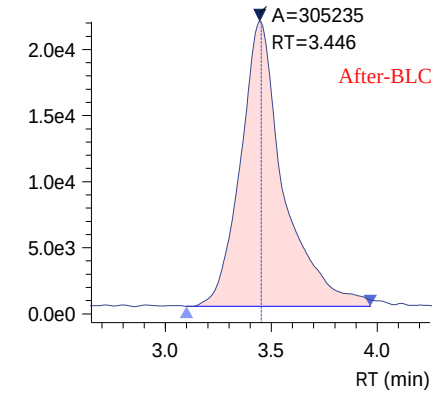
Sample ID: CCV
Date Acquired: 6/21/2024 1:36:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.446	3052 35	205946	10.1 511	ng/mL	101.00 >85.00	33.43	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.443	2059 46	205946	1.0000	ng/mL	----	----	

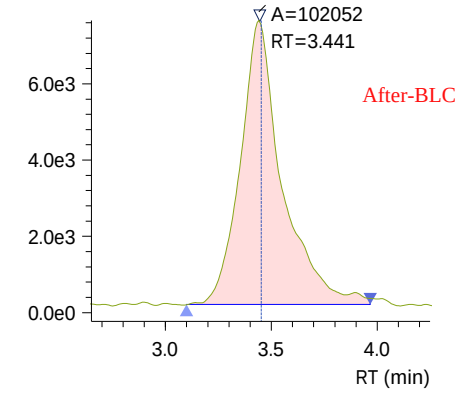
Perchlorate

Conc 10.1511
R#1 33.43 (35.24)

Q 99.00>83.00 (-) 2.21e4



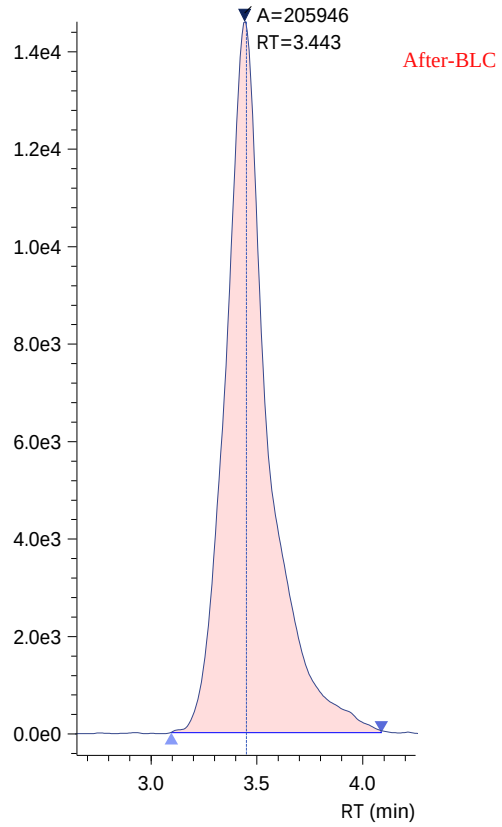
R1 101.00>85.00 (-) 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



Insight Report

Printed at 6/25/2024 12:31:43 PM

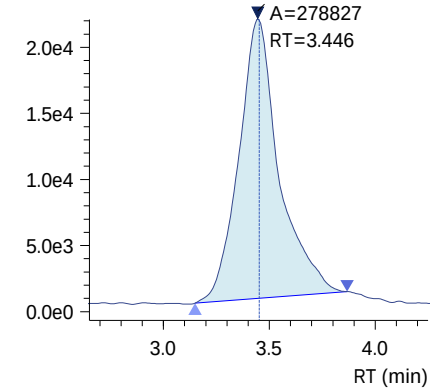
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 1:36:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

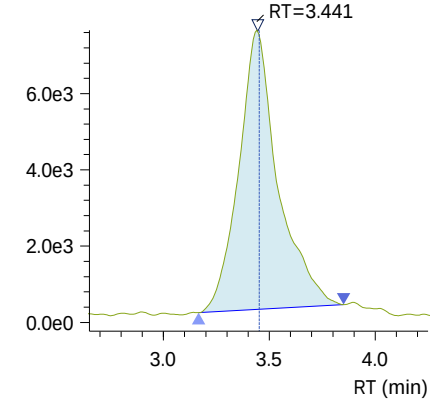
Perchlorate

Conc 10.4489
R#1 33.79 (35.24)

Q 99.00>83.00 (-) 2.21e4



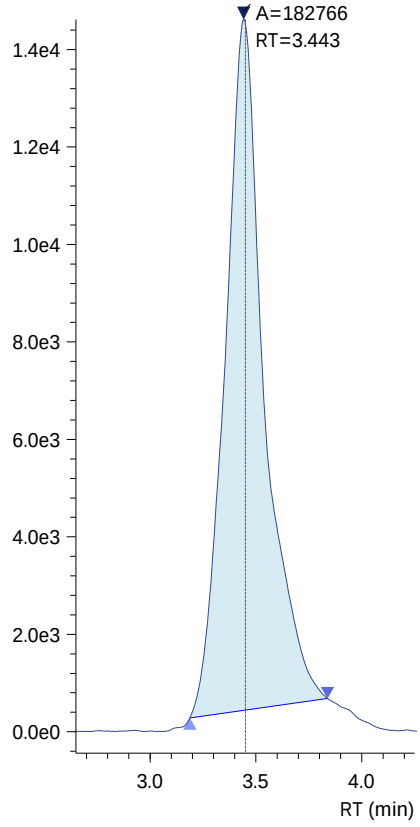
R1 101.00>85.00 (-) A=94215 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.46e4



Insight Report

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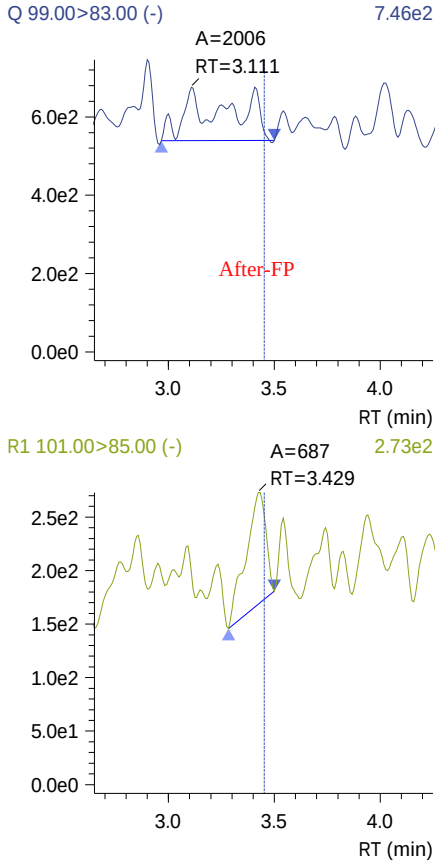
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Date Acquired: 6/21/2024 1:41:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-020.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	186191	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.444	186191	186191	1.0000	ng/mL	----	----	

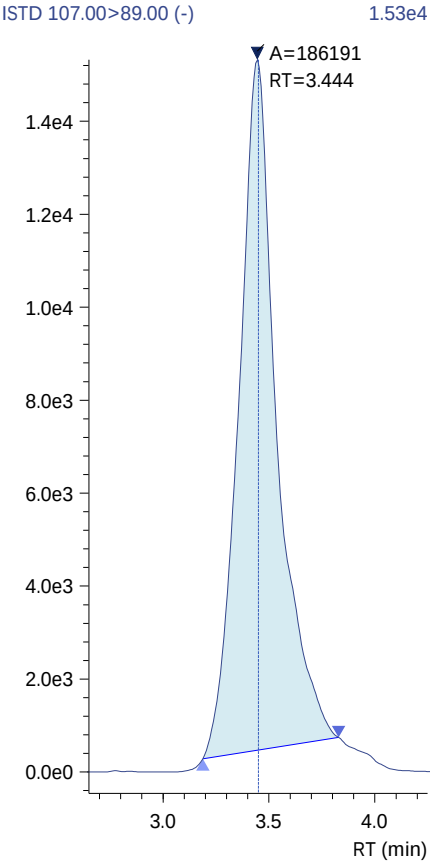
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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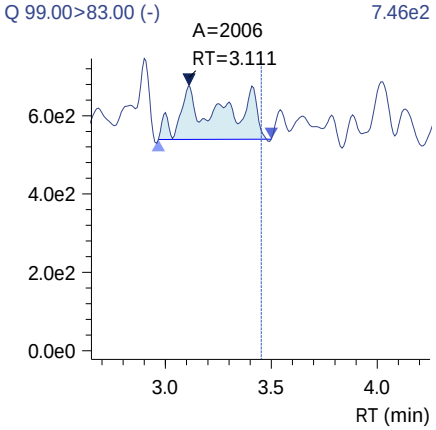
IB

Sample ID: IB
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Acquired by: System Administrator
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Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

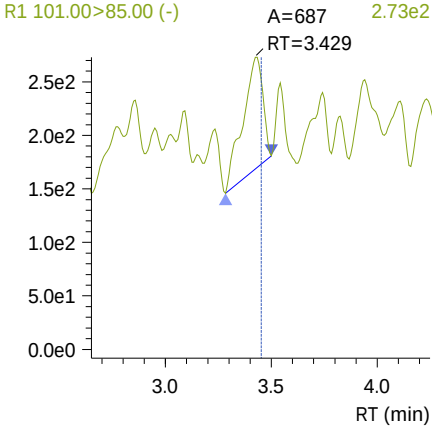
Perchlorate

Conc 0.0738
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.46e2



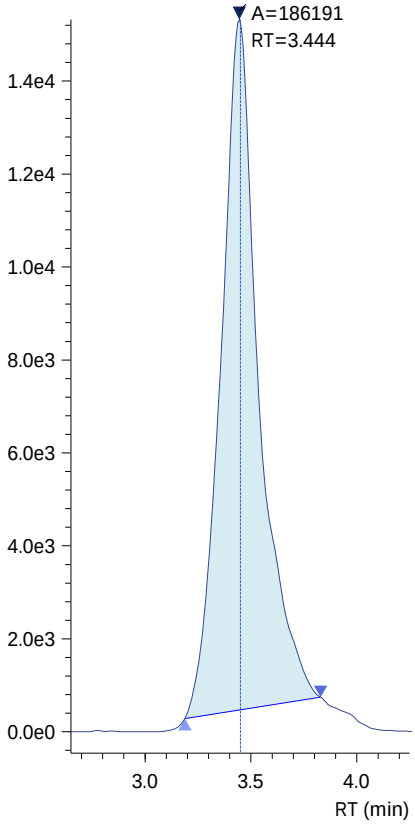
R1 101.00>85.00 (-) 2.73e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.53e4



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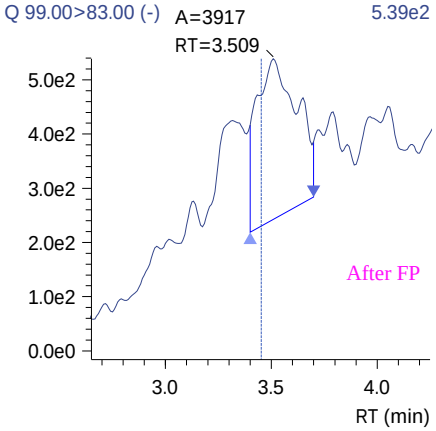
E2400706-001

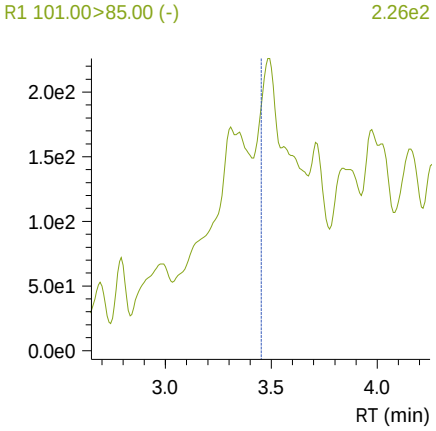
Sample ID: E2400706-001
Date Acquired: 6/21/2024 2:03:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-024.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	232095	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.454	232095	232095	1.0000	ng/mL	----	----	

Perchlorate

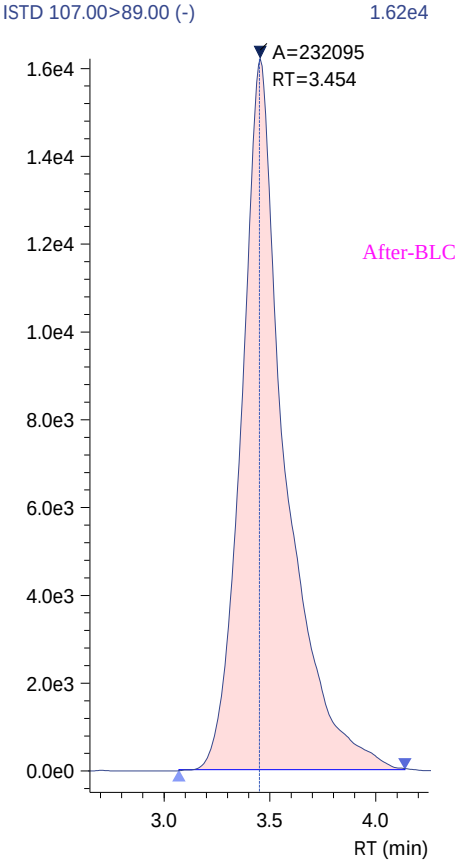
Conc ----
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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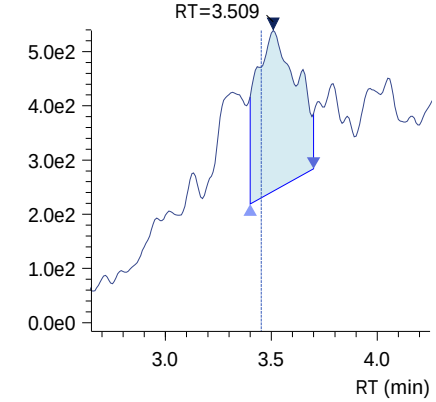
E2400706-001

Sample ID: E2400706-001
Date Acquired: 6/21/2024 2:03:48 PM
Acquired by: System Administrator
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Vial: 9 | Inj. Volume: 10.0000uL | Tray: 3

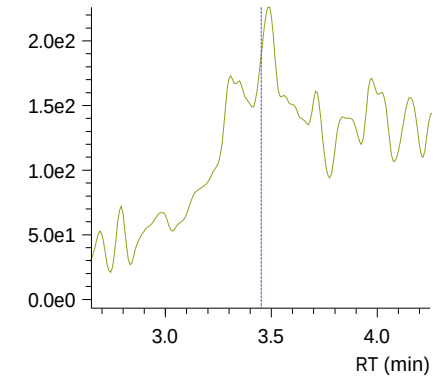
Perchlorate

Conc 0.1316
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=3917 5.39e2



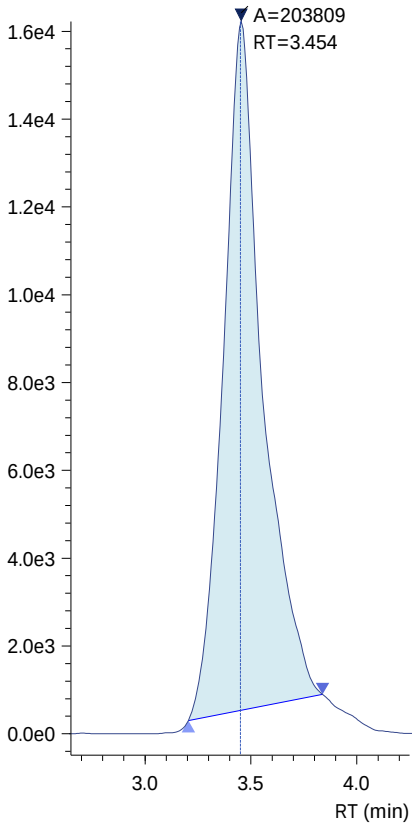
R1 101.00>85.00 (-) 2.26e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



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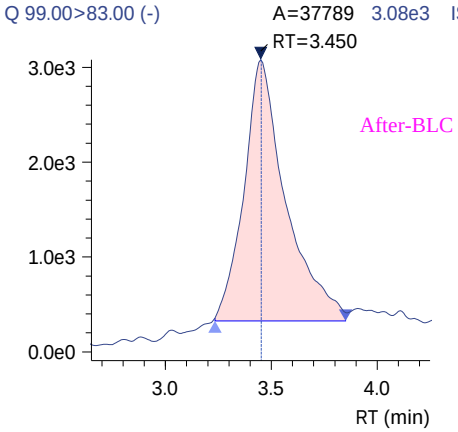
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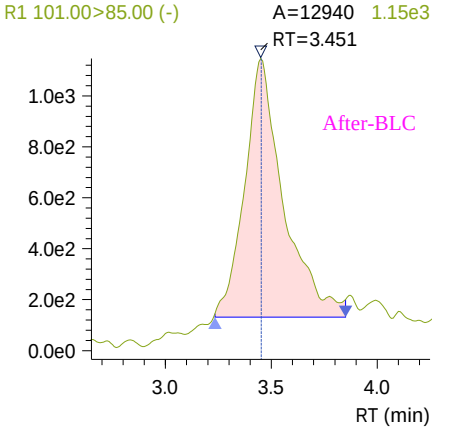
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Date Acquired: 6/21/2024 2:09:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-025.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.450	37789	221763	1.1671	ng/mL	101.00 >85.00	34.24	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.451	221763	221763	1.0000	ng/mL	----	----	

Perchlorate

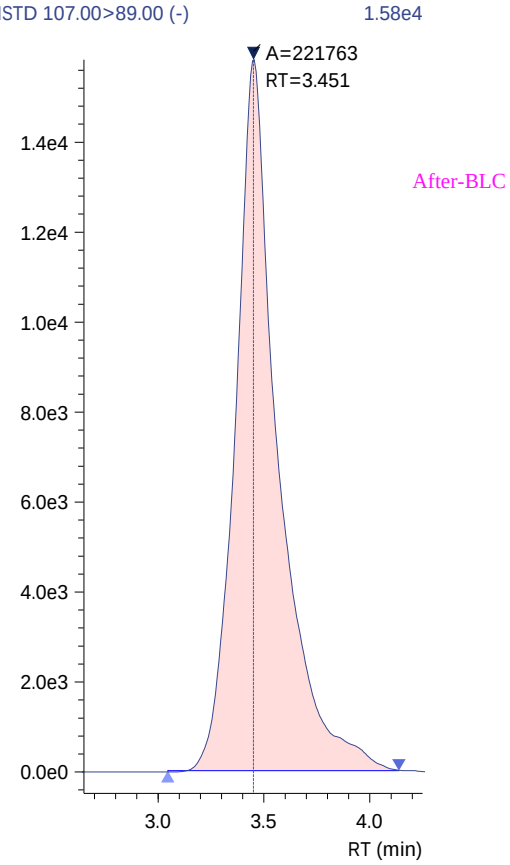
Conc 1.1671
R#1 34.24 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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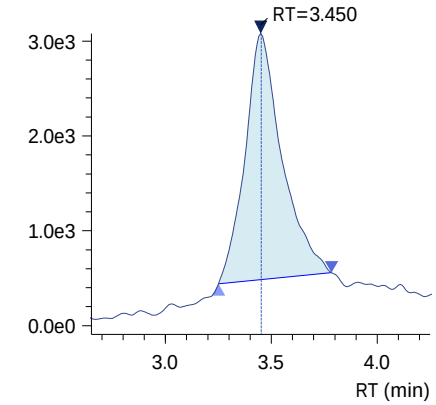
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Sample ID: E2400706-002
Date Acquired: 6/21/2024 2:09:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-025.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 3

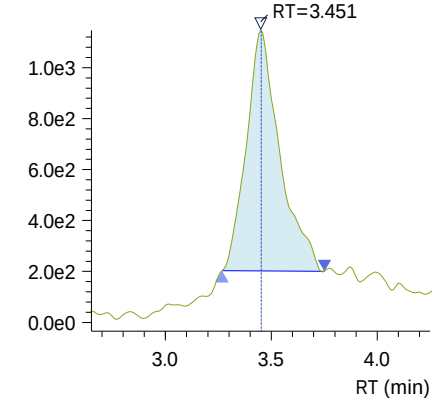
Perchlorate

Conc 1.1129
R#1 32.91 (35.24)

Q 99.00>83.00 (-) A=31523 3.08e3



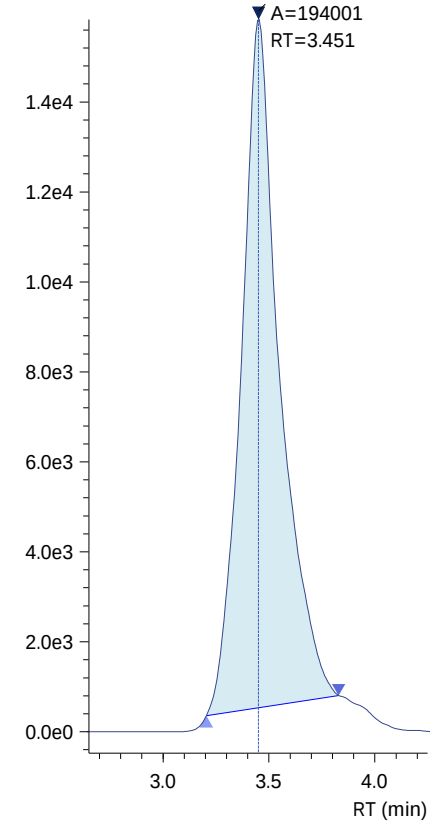
R1 101.00>85.00 (-) A=10373 1.15e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.58e4



Insight Report

Printed at 6/26/2024 11:49:55 AM

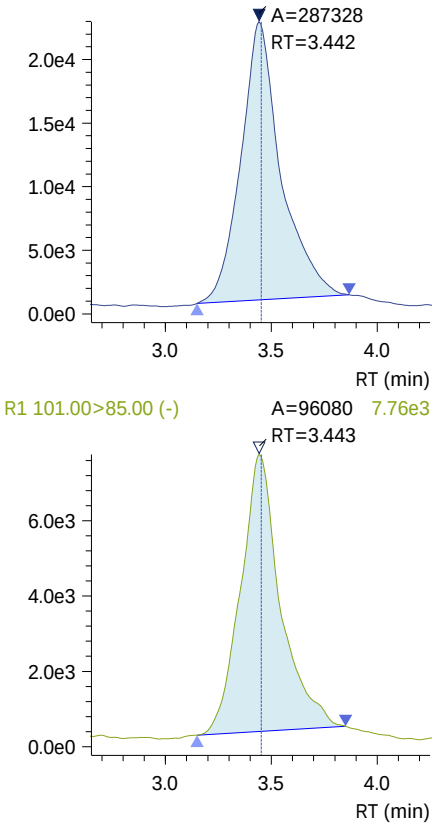
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 2:42:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-031.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.442	2873 28	211144	9.3204	ng/mL	101.00 >85.00	33.44	23.46 -43.30
Sodium Perchlorate-18O4_IS	M	3.441	2111 44	211144	1.0000	ng/mL	----	----	

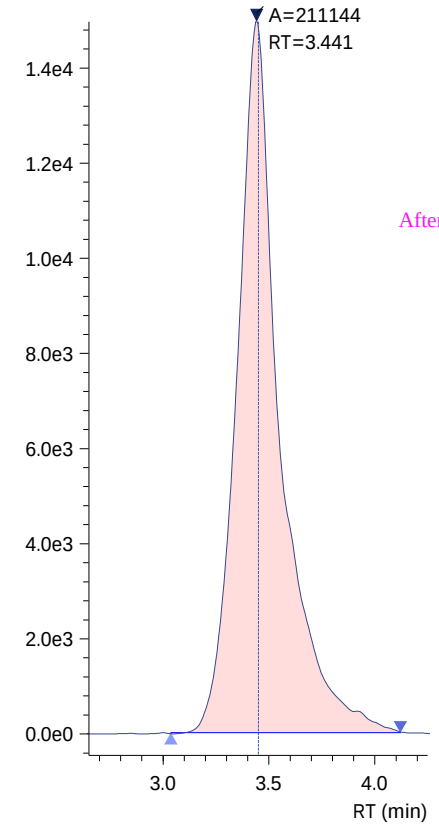
Perchlorate

Conc 9.3204
R#1 33.44 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

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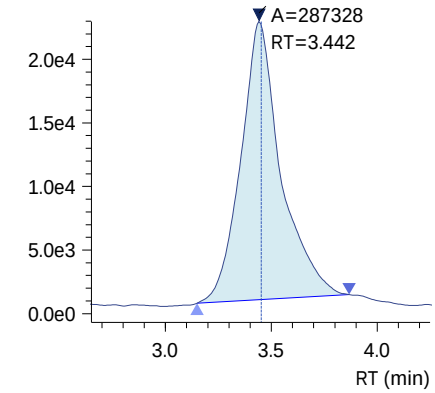
CCV

Sample ID: CCV
Date Acquired: 6/21/2024 2:42:38 PM
Acquired by: System Administrator
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Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

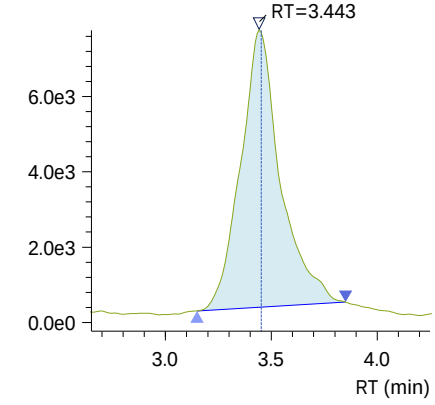
Perchlorate

Conc 10.3005
R#1 33.44 (35.24)

Q 99.00>83.00 (-) 2.30e4



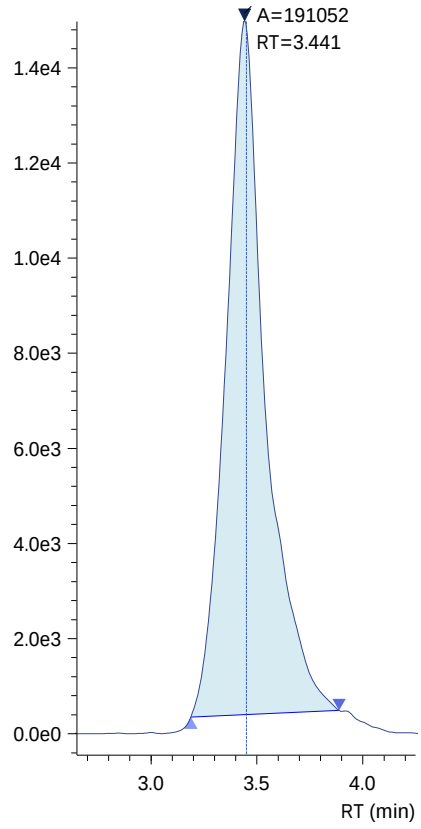
R1 101.00>85.00 (-) A=96080 7.76e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



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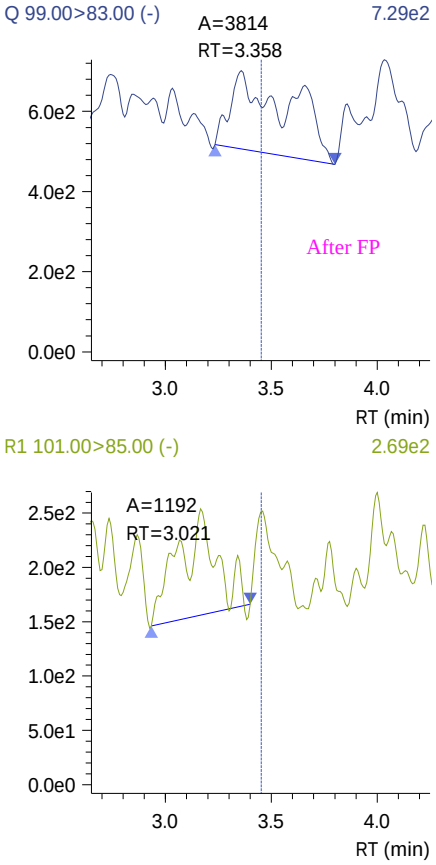
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Sample ID: IB
Date Acquired: 6/21/2024 2:48:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240621\20240621-032.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	192805	----	ng/mL	101.00 >85.00	0.00	23.46 -43.30
Sodium Perchlorate-18O4_IS	Auto	3.443	192805	192805	1.0000	ng/mL	----	----	

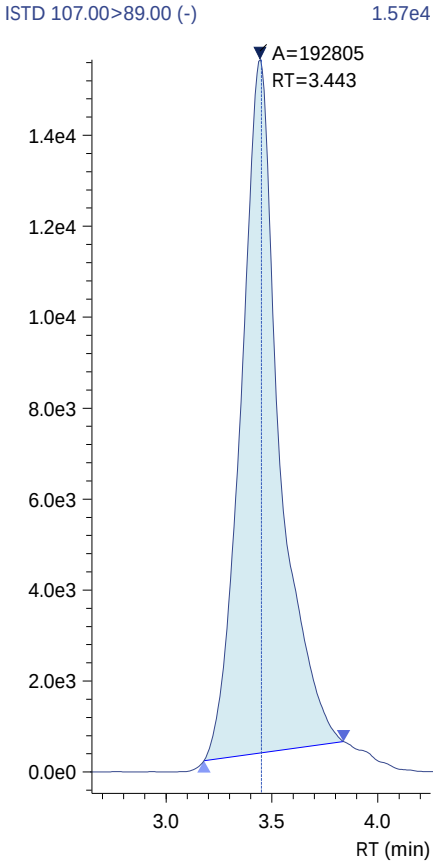
Perchlorate

Conc ----
R#1 0.00 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

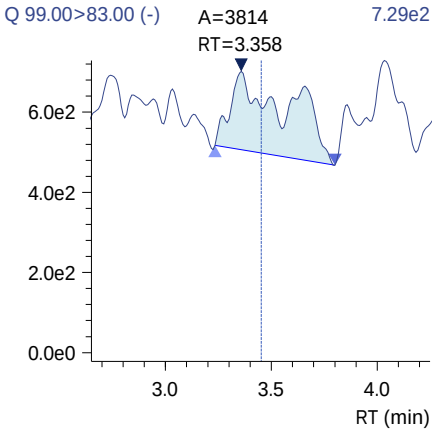
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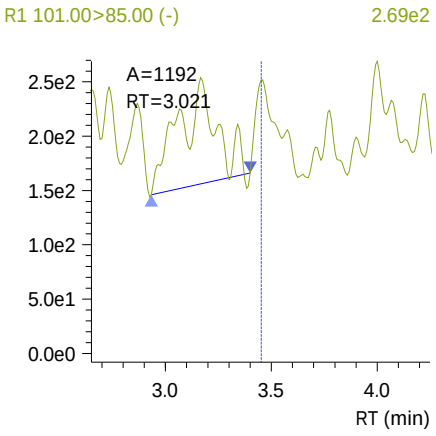
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Acquired by: System Administrator
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Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

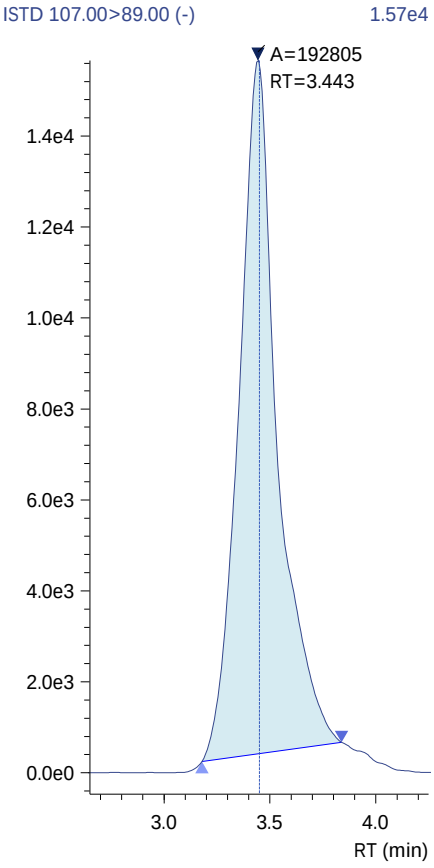
Conc 0.1355
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



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Houston, TX 77099
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alsglobal.com

WorkOrder: HS24061572

Groundwater Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

10-Jul-2024

WorkOrder: HS24061572

ALS Environmental
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www.alsglobal.com

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HS24061572 Groundwater Treatment Plant Weekly Samples cover page

ALS WO# HS24061572

HS24061572 Groundwater Treatment Plant Weekly Samples Final

ALS WO# HS24061572

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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July 01, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24061572**

Laboratory Results for: **Groundwater Treatment Plant Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on Jun 26, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER
Luis.Aguilar

ALS Houston, US Date: 01-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Weekly Samples
Work Order: HS24061572

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24061572-01	LH18/24-SP650_062524	Water		25-Jun-2024 13:00	26-Jun-2024 10:00	☐
HS24061572-02	LH18/24-SP650_062524_BIX	Water		25-Jun-2024 13:00	26-Jun-2024 10:00	☐
HS24061572-03	LH18/24-SP650_062524_AIX	Water		25-Jun-2024 13:00	26-Jun-2024 10:00	☐

ALS Houston, US Date: 01-Jul-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Weekly Samples
Work Order: HS24061572

Work Order Comments

- The analysis for Perchlorate was subcontracted to ALS Houston High-Res Lab. Final report attached

WetChemistry by Method E415.1

Batch ID: R470747

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E350.3

Batch ID: R470656

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E365.3

Batch ID: R470602

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 01-Jul-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Groundwater Treatment Plant Weekly Samples
WorkOrder:HS24061572
Sample ID: LH18/24-SP650_062524
Lab ID:HS24061572-01
Collection Date: 25-Jun-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: HB
Nitrogen, Ammonia (As N)	**28**	a	**0.10**	**0.20**	**0.20**	**mg/L**	1	27-Jun-2024 17:24
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: HB
Phosphorus, Total Orthophosphate (As P)	**2.17**	a	**0.0500**	**0.125**	**0.125**	**mg/L**	5	27-Jun-2024 11:11
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: MZD
Organic Carbon, Total	**14.4**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	28-Jun-2024 02:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 01-Jul-24

Client:	Bhate Environmental Associates, Inc.	**ANALYTICAL REPORT**
Project:	Groundwater Treatment Plant Weekly Samples	WorkOrder:HS24061572
Sample ID:	LH18/24-SP650_062524_BIX	Lab ID:HS24061572-02
Collection Date:	25-Jun-2024 13:00	Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	01-Jul-2024 13:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 01-Jul-24

Client:	Bhate Environmental Associates, Inc.	**ANALYTICAL REPORT**
Project:	Groundwater Treatment Plant Weekly Samples	WorkOrder:HS24061572
Sample ID:	LH18/24-SP650_062524_AIX	Lab ID:HS24061572-03
Collection Date:	25-Jun-2024 13:00	Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	01-Jul-2024 13:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 01-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Weekly Samples
WorkOrder: HS24061572

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R470602 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS24061572-01	LH18/24-SP650_062524	25 Jun 2024 13:00			27 Jun 2024 11:11	5
Batch ID: R470656 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS24061572-01	LH18/24-SP650_062524	25 Jun 2024 13:00			27 Jun 2024 17:24	1
Batch ID: R470747 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS24061572-01	LH18/24-SP650_062524	25 Jun 2024 13:00			28 Jun 2024 02:10	1
Batch ID: R470941 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24061572-02	LH18/24-SP650_062524_BIX	25 Jun 2024 13:00			01 Jul 2024 13:50	1
HS24061572-03	LH18/24-SP650_062524_AIX	25 Jun 2024 13:00			01 Jul 2024 13:50	1

ALS Houston, US Date: 01-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Weekly Samples
WorkOrder: HS24061572

QC BATCH REPORT

Batch ID: R470602 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R470602** Units: **mg/L** Analysis Date: **27-Jun-2024 11:11**
Client ID: Run ID: **UV-2450_470602** SeqNo: **8102870** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.0250	0.0250								U

LCS Sample ID: **LCS-R470602** Units: **mg/L** Analysis Date: **27-Jun-2024 11:11**
Client ID: Run ID: **UV-2450_470602** SeqNo: **8102869** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.249	0.0250	0.25	0	99.6	80 - 120				

MS Sample ID: **HS24061572-01MS** Units: **mg/L** Analysis Date: **27-Jun-2024 11:11**
Client ID: **LH18/24-SP650_062524** Run ID: **UV-2450_470602** SeqNo: **8102872** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	3.395	0.125	1.25	2.17	98.0	80 - 120				

MSD Sample ID: **HS24061572-01MSD** Units: **mg/L** Analysis Date: **27-Jun-2024 11:11**
Client ID: **LH18/24-SP650_062524** Run ID: **UV-2450_470602** SeqNo: **8102871** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	3.405	0.125	1.25	2.17	98.8	80 - 120	3.395	0.294	20	

The following samples were analyzed in this batch: HS24061572-01

ALS Houston, US Date: 01-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Weekly Samples
WorkOrder: HS24061572

QC BATCH REPORT

Batch ID: R470656 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R470656** Units: **mg/L** Analysis Date: **27-Jun-2024 17:24**
Client ID: Run ID: **WetChem_HS_470656** SeqNo: **8103991** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	0.20	0.20								U

LCS Sample ID: **LCS-R470656** Units: **mg/L** Analysis Date: **27-Jun-2024 17:24**
Client ID: Run ID: **WetChem_HS_470656** SeqNo: **8103990** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	10.14	0.20	10	0	101	80 - 120				

MS Sample ID: **HS24061572-01MS** Units: **mg/L** Analysis Date: **27-Jun-2024 17:24**
Client ID: **LH18/24-SP650_062524** Run ID: **WetChem_HS_470656** SeqNo: **8103993** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	37.99	0.20	10	28.47	95.2	80 - 120				

MSD Sample ID: **HS24061572-01MSD** Units: **mg/L** Analysis Date: **27-Jun-2024 17:24**
Client ID: **LH18/24-SP650_062524** Run ID: **WetChem_HS_470656** SeqNo: **8103992** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	38.38	0.20	10	28.47	99.1	80 - 120	37.99	1.02	20	

The following samples were analyzed in this batch: HS24061572-01

ALS Houston, US Date: 01-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Weekly Samples
WorkOrder: HS24061572

QC BATCH REPORT

Batch ID: R470747 (0) **Instrument: TOC_04** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-06272024** Units: **mg/L** Analysis Date: **28-Jun-2024 00:26**
Client ID: Run ID: **TOC_04_470747** SeqNo: **8106176** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.00	1.00								U

LCS Sample ID: **LCS-06272024** Units: **mg/L** Analysis Date: **28-Jun-2024 00:38**
Client ID: Run ID: **TOC_04_470747** SeqNo: **8106177** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.228	1.00	10	0	92.3	85 - 115				

LCSD Sample ID: **LCSD-06272024** Units: **mg/L** Analysis Date: **28-Jun-2024 00:48**
Client ID: Run ID: **TOC_04_470747** SeqNo: **8106178** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.217	1.00	10	0	92.2	85 - 115	9.228	0.119	20	

MS Sample ID: **HS24060883-25MS** Units: **mg/L** Analysis Date: **28-Jun-2024 03:30**
Client ID: Run ID: **TOC_04_470747** SeqNo: **8106191** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	11.17	1.00	10	2.774	84.0	80 - 120				

The following samples were analyzed in this batch: HS24061572-01

ALS Houston, US Date: 01-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Weekly Samples
WorkOrder: **HS24061572**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 01-Jul-24

Sample Receipt Checklist

Work Order ID: HS24061572 **Date/Time Received:** **26-Jun-2024 10:00**

Client Name: Bhate Environmental **Received by:** **Si Ma**

Completed By: */S/ Kaycee Rogers* 26-Jun-2024 14:54 **Reviewed by:** */S/ Alexis Dorenbosch* 27-Jun-2024 13:50

eSignature Date/Time eSignature Date/Time

Matrices: **W** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.7UC/1.8C	IR 31
Cooler(s)/Kit(s):	49175	
Date/Time sample(s) sent to storage:	06/26/2024 1454	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

HS24061572

Bhate Environmental Associates, Inc.

Longhorn GW Treatment Plant Weekly Samples

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210 Houston, TX. 77099 (281) 530-5656 ATTN: James Guin

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O. Number

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE	Analys						Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_062524	Water	06/25/24 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_062524	Water	06/25/24 / 13:00		1			X								NONE	
LH18/24–SP650_062524_BIX	Water	06/25/24 / 13:00		1				X							NONE	
LH18/24- SP650_062524_AIX	Water	06/25/24 / 13:00		1				X							NONE	

Additional Remarks: **24 HR. TAT on Perchlorate Samples. Standard TAT on all other parameters**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	06/25/24	13:30							GM	06/26/24	10:00

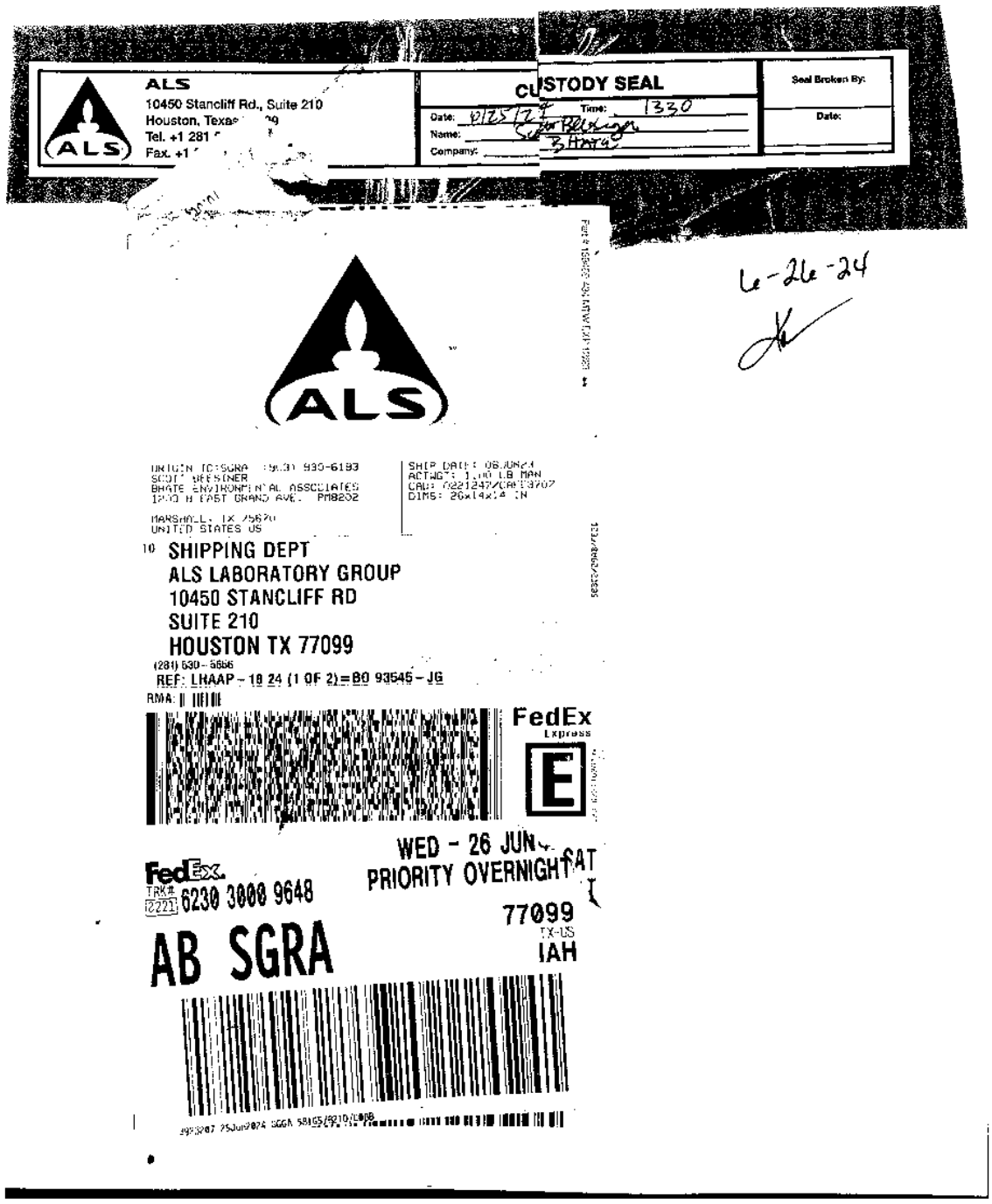
For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks:

Cooler # 49175 Temp 3.2 / 1.7 Corr to 1

(Word) S:\[illegible]-ces\Forms\Chain of Custody - Bi\Weekly



ALS
10450 Stancliff Rd., Suite 210
Houston, Texas [illegible]
Tel. +1 281 [illegible]
Fax. +1 [illegible]

CUSTODY SEAL
Date: 6/25/24
Time: 1330
Name: Sam Billings
Company: 3 Hours

Seal Broken By:
Date:

6-26-24

ORIGIN ID:SGRA (281) 930-6183
SCOTT BRESSNER
BHATE ENVIRONMENTAL ASSOCIATES
1900 N EAST GRAND AVE. PM8202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 06JUN24
ACTWGT: 1.00 LB MAN
CAD: 6221247/CAFE3707
DIMS: 26x14x1 IN

10 SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP-18 24 (1 OF 2)=BO 93545-JG
RMA:

FedEx Express

FedEx
TRK# 6230 3000 9648
0221

WED - 26 JUN
PRIORITY OVERNIGHT SAT

77099
TX-US
IAH

AB SGRA

June 28, 2024 Service Request No:E2400757

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24061572

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 26, 2024
For your reference, these analyses have been assigned our service request number **E2400757.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400757
Project:	HS24061572	**Date Received:**	06/26/24 - 06/27/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two samples were received for analysis at ALS Environmental in Houston on 06/26/24 - 06/27/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400363: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400757
Project: HS24061572

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400757-001	LH18/24-SP650_062524_BIX	6/25/2024	1300
E2400757-002	LH18/24-SP650_062524_AIX	6/25/2024	1300

Service Request Summary

Folder #: **E2400757**
Client Name: ALS Environmental - US
Project Name: HS24061572
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/26/24 - 06/27/24
Internal Due Date: 6/28/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400757-001	LH18/24-SP650_062524_BIX	Water	06/25/24 1300	**IV**
E2400757-002	LH18/24-SP650_062524_AIX	Water	06/25/24 1300	**IV**

Service Request Summary

Folder #: **E2400757**
Client Name: ALS Environmental - US
Project Name: HS24061572
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/26/24 - 06/27/24
Internal Due Date: 6/28/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1D
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

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Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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E2400757 5
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HS24061572

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **26167**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24061572
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24061572-02**	**LH18/24-SP650_062524_BIX**	**Water**	**25 Jun 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			27 Jun 2024
2.	**HS24061572-03**	**LH18/24-SP650_062524_AIX**	**Water**	**25 Jun 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			27 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

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Sample Receipt Checklist

Work Order ID: HS24061572 **Date/Time received:** 26 Jun 2024 10:00

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 26 Jun 2024 14:54 (Date/Time) Kaycee Rogers (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: W **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present
Chain of custody present?	☑ Yes	☐ No	1 Page(s)
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):
Samplers name present on COC?	☑ Yes	☐ No	
Chain of custody agrees with sample labels?	☑ Yes	☐ No	
Samples in proper container/bottle?	☑ Yes	☐ No	
Sample containers intact?	☑ Yes	☐ No	
Sufficient sample volume for indicated test?	☑ Yes	☐ No	
All samples received within holding time?	☑ Yes	☐ No	
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No	

Temperature(s)/Thermometer(s): 1.7UC/1.8C IR 31

Cooler Information: 1 Cooler(s), 49175

Date/Time sample(s) sent to storage: 06/26/2024 1454

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☐ Yes	☐ No	☑ Not Applicable
pH adjusted?	☐ Yes	☐ No	☑ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 440806 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** **Prep Date/Time:** 6/27/24 15:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400728-001	2406170901B 600A-001	.04	6850/ClO4			Water	10mL	
2	E2400728-002	2406170950A 100-E-261	.04	6850/ClO4			Water	10mL	
3	E2400728-003	2406171417B 600A-002	.01	6850/ClO4			Water	10mL	
4	E2400752-001	20240620-GW-04	.01	6850/ClO4 DOD			Water	10mL	
5	E2400757-001	LH18/24-SP650_062524_BIX	.02	6850/ClO4 DOD			Water	10mL	
6	E2400757-002	LH18/24-SP650_062524_AIX	.01	6850/ClO4 DOD			Water	10mL	
7	EQ2400363-01	MB		6850/ClO4			Liquid	10mL	
8	EQ2400363-02	LCS		6850/ClO4			Liquid	10mL	
9	EQ2400363-03	DLCS		6850/ClO4			Liquid	10mL	
10	EQ2400363-04	ICS		6850/ClO4			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400363-02 10.00µL EQ2400363-03 10.00µL EQ2400363-04 10.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400363-04 20.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400752-001 100.00µL E2400757-001 100.00µL E2400757-002 100.00µL EQ2400363-01 100.00µL EQ2400363-02 100.00µL EQ2400363-03 100.00µL
EQ2400363-04 100.00µL

Preparation Materials

6850 Luer-Lok Syringes Luer Lok Syringes (235268)

Preparation Steps

Step: Preparation
Started: 6/27/24 15:00
Finished: 6/27/24 16:00
By: JOSEL.JUAREZ
Comments

Comments:

Preparation Information Benchsheet

Prep Run#: 440806 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** **Prep Date/Time:** 6/27/24 15:00

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By:		Date:		Extracts Examined	
Received By:		Date:		Yes	No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Collected:**	6/25/24 1300
Sample Matrix:	Water	**Date Received:**	6/26/24
Sample Name:	LH18/24-SP650_062524_BIX	**Units:**	µg/L
Lab Code:	E2400757-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.718**		0.100	0.0500	0.0250	1	6/27/24	6/28/24 10:40	440806	845899	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Collected:**	6/25/24 1300
Sample Matrix:	Water	**Date Received:**	6/27/24
Sample Name:	LH18/24-SP650_062524_AIX	**Units:**	µg/L
Lab Code:	E2400757-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0444**	J	0.100	0.0500	0.0250	1	6/27/24	6/28/24 10:45	440806	845899	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400363-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/27/24	6/28/24 10:18	440806	845899	

Accuracy & Precision

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dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Analyzed:**	06/28/24
Sample Matrix:	Water		

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
		Basis:	NA
		Analysis Lot:	845899

	Lab Control Sample EQ2400363-02			Duplicate Lab Control Sample EQ2400363-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.118	0.100	118	0.104	0.100	104	84-119	12	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400363-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.118**		0.100	0.0500	0.0250	1	6/27/24	6/28/24 10:23	440806	845899	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400363-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.104**		0.100	0.0500	0.0250	1	6/27/24	6/28/24 10:29	440806	845899	

HS24061572 Wetchem NIT-AMM_W- E350.3 - ISE

ALS WO# HS24061572

ALS Laboratory Group

ISE_350.3_W

Logbook **32610**

Ion Selective Electrode Logbook

Analyst: HB					Date: 6-27-24			
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F								
Probe Calibration Date: 6-27-24		Cal Std ID: 325105908			Probe ID: NH_3 -10			
Std Level		mV	Conc., mg/L:		Sodium Thiosulfate ID:			
STD 1 (mg/L):		136.0	0.20		Std Level	mV	Conc., mg/L:	
STD 2 (mg/L):		103.5	1.00		STD 4 (mg/L):	47.7	10.00	
STD 3 (mg/L):		65.2	5.00		STD 5 (mg/L):	7.0	50.00	
LSC / MS Spike ID: 310060911 2					ICAL Date & Slope:	98.8%	-58.3mV	
ICV Cal STD ID: 310060871 1								
DPD Reagent ID: 310060914								

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/ –)	Comments
CCV		50	50		10.081			
CCB					0.006			
MBLK					0.005			
LCS					10.136			
1572-01					28.474		–	
-01 MS					37.992		–	
-01 MSD					38.381		–	
1530-01					1.740		–	
-02					0.707		–	
1441-01					1.166		–	
-02					0.937		–	
-03					0.262		–	
CCV					10.072			
CCB					0.008			

Batch ID: 470656	Reported By HB	Reviewed By:

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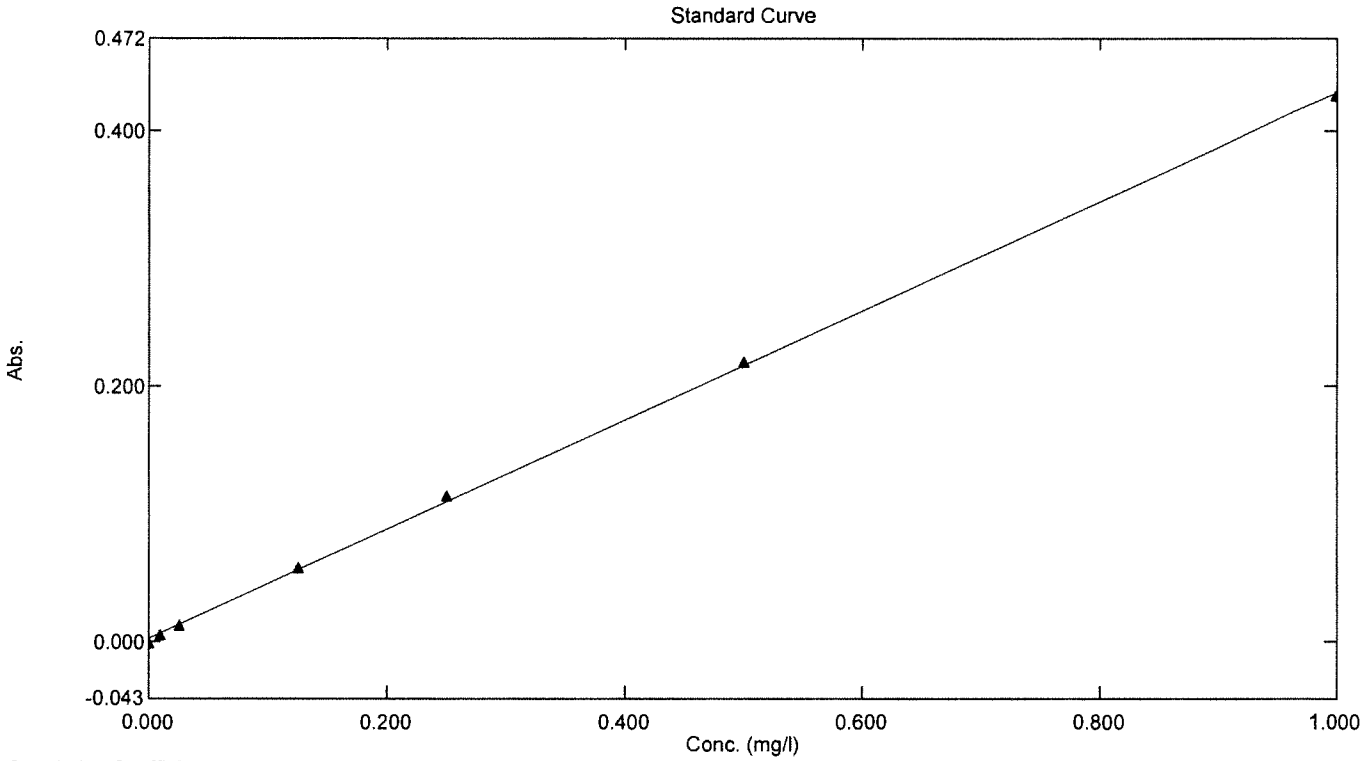
HS24061572 Wetchem P-ORTHO

ALS WO# HS24061572

Standard Table Report

07/05/2024 05:35:57 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\06272024P_ORTHO .pho



Correlation Coefficient r2 = 0.99974

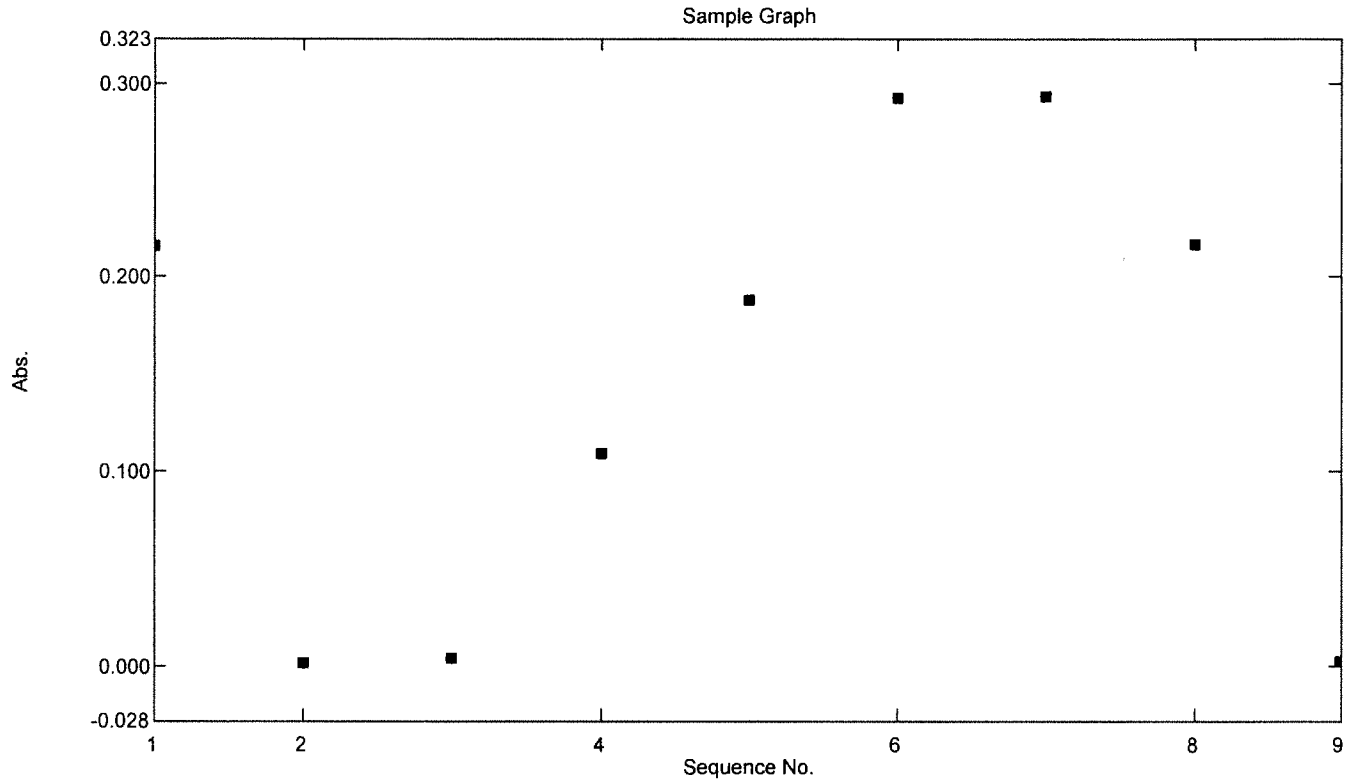
Standard Table

	Sample ID	Type	Ex	Conc	WL650.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.000	1.000	
2	STD2	Standard		0.010	0.006	1.000	
3	STD3	Standard		0.025	0.013	1.000	
4	STD4	Standard		0.125	0.058	1.000	
5	STD5	Standard		0.250	0.113	1.000	
6	STD6	Standard		0.500	0.218	1.000	
7	STD7	Standard		1.000	0.428	1.000	09/07/24
8							

Sample Table Report

07/05/2024 05:36:48 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\06272024P_ORTHO .pho



Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	06/27/2024	11:11:54 AM	0.500	0.216	325106306
2	CCB	06/27/2024	11:12:16 AM	-0.005	0.001	325101201
3	MBLK	06/27/2024	11:12:31 AM	0.001	0.003	325106402
4	LCS	06/27/2024	11:13:21 AM	0.249	0.109	325106305
5	HS24061572.01	06/27/2024	11:15:10 AM	0.434	0.188	DF:5X
6	HS24061572.01MS	06/27/2024	11:17:28 AM	0.679	0.293	DF:5X
7	HS24061572.01MSD	06/27/2024	11:17:56 AM	0.681	0.294	DF:5X
8	CCV2	06/27/2024	11:18:20 AM	0.502	0.217	
9	CCB2	06/27/2024	11:18:40 AM	-0.003	0.002	
10						

HS24061572 Wetchem TOC_W ICAL TABLE

ALS WO# HS24061572

C:\TOC-L\Data\2024_05_10_001CAL.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Result
1	Standard	NPOC	CAL	3100608307	05.10.2024.CAL.C	
2	Unknown	NPOC	ICV	3100607917	05.10.2024.CAL.C	NPOC:9.610mg/L
3	Unknown	NPOC	ICB		05.10.2024.CAL.C	NPOC:0.03466mg/L

	Notes	Status	Date / Time	Vial
1		Completed	5/10/2024 7:16:51 PM	1, 2, 3, 4, 5,
2		Completed	5/10/2024 7:26:57 PM	8
3		Completed	5/10/2024 7:46:04 PM	1

HS24061572 Wetchem TOC_W ICAL

ALS WO# HS24061572

TOC-Control L Report

2024_05_10_001CAL.tlx

Instr.Information

Instrument Options	TOC/ASI/IC Unit/Sparge Kit/
Catalyst	Regular Sensitivity

Cal. Curve

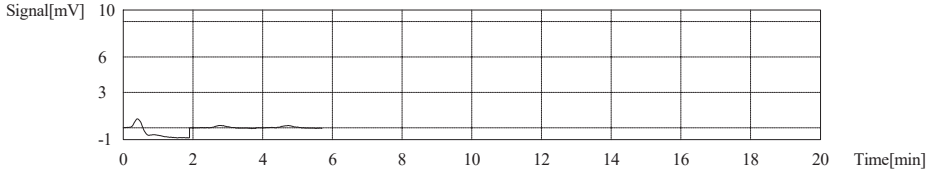
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	0.4225	50uL	1.000	*******		5/10/2024 6:09:54 PM
2	0.4649	50uL	1.000	*******		5/10/2024 6:12:23 PM
3	0.4009	50uL	1.000	*******		5/10/2024 6:14:52 PM

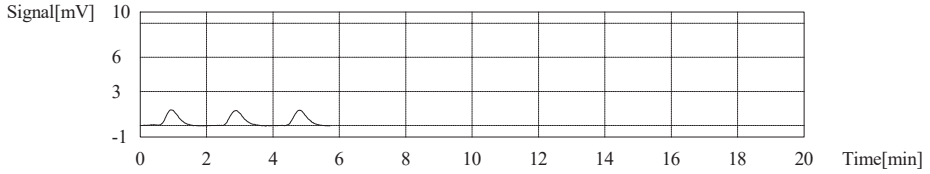
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 0.4294



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.530	50uL	1.000	*******		5/10/2024 6:19:54 PM
2	3.801	50uL	1.000	*******		5/10/2024 6:22:24 PM
3	3.850	50uL	1.000	*******		5/10/2024 6:24:53 PM

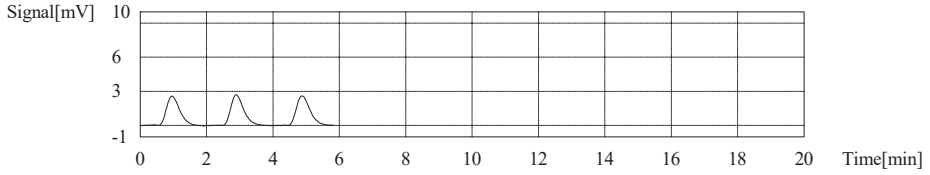
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 3.727



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.184	50uL	1.000	*******		5/10/2024 6:30:01 PM
2	7.300	50uL	1.000	*******		5/10/2024 6:32:33 PM
3	7.245	50uL	1.000	*******		5/10/2024 6:35:05 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 7.243



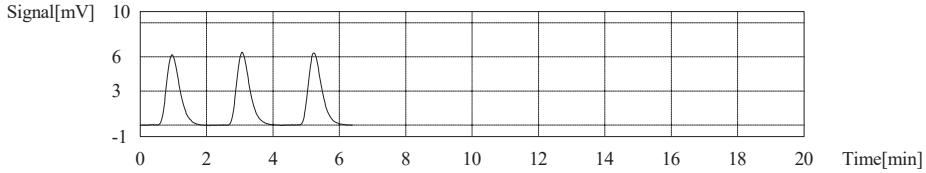
TOC-Control L Report

2024_05_10_001CAL.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.24	50uL	1.000	*******		5/10/2024 6:40:14 PM
2	17.77	50uL	1.000	*******		5/10/2024 6:42:59 PM
3	17.66	50uL	1.000	*******		5/10/2024 6:45:40 PM

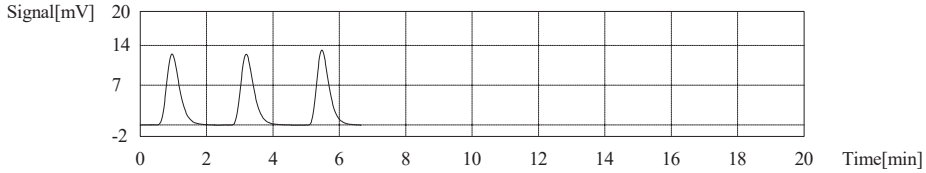
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 17.56



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	34.28	50uL	1.000	*******		5/10/2024 6:50:25 PM
2	34.02	50uL	1.000	*******		5/10/2024 6:53:19 PM
3	34.57	50uL	1.000	*******		5/10/2024 6:56:00 PM

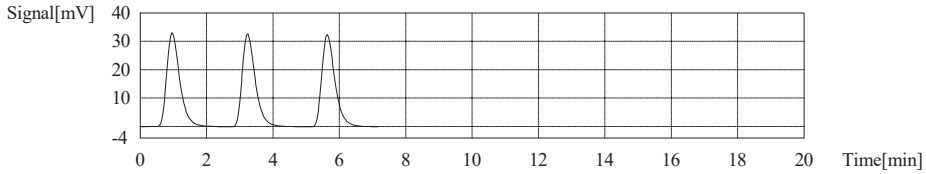
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 34.29



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	89.06	50uL	1.000	*******		5/10/2024 7:00:32 PM
2	88.80	50uL	1.000	*******		5/10/2024 7:03:30 PM
3	88.96	50uL	1.000	*******		5/10/2024 7:06:34 PM

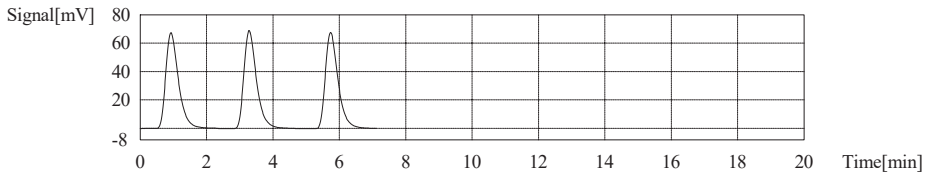
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 88.94



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	178.7	50uL	1.000	*******		5/10/2024 7:10:55 PM
2	181.8	50uL	1.000	*******		5/10/2024 7:13:57 PM
3	179.1	50uL	1.000	*******		5/10/2024 7:16:51 PM

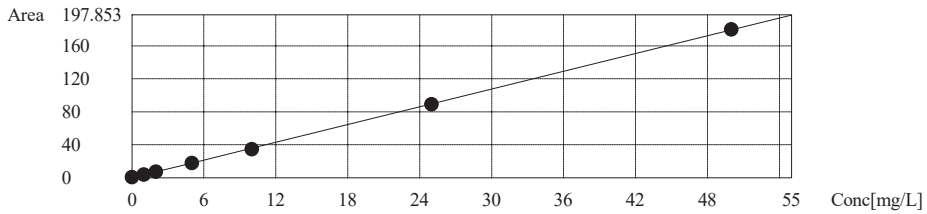
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 179.9



TOC-Control L Report

2024_05_10_001CAL.tlx

Slope:	3.592
Intercept	0.000
r^2	0.9999
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	05.10.2024.CAL.CELL.cal
Status	Completed
Chk. Result	

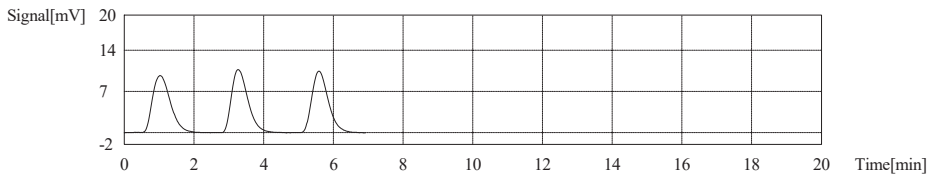
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.610mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.44	9.587mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:21:08 PM
2	34.60	9.632mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:24:00 PM
3	34.52	9.610mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:26:57 PM

Mean Area	34.52
Mean Conc.	9.610mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	05.10.2024.CAL.CELL.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03466mg/L

1. Det

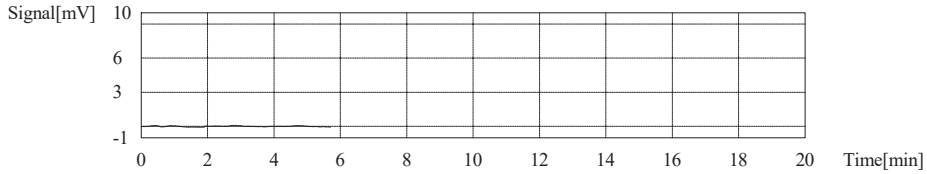
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2361	0.06573mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:41:06 PM
2	0.1374	0.03825mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:43:35 PM
3	0.000	0.000mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	5/10/2024 7:46:04 PM

TOC-Control L Report

2024_05_10_001CAL.tlx

Mean Area	0.1245
Mean Conc.	0.03466mg/L



HS24061572 Wetchem TOC_W INJECT TABLE

ALS WO# HS24061572

C:\TOC-L\Data\2024_06_27_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Result
1	Unknown	NPOC	CCV	325105406	05.10.2024.CAL.C	NPOC:24.59mg/L
2	Unknown	NPOC	CCB		05.10.2024.CAL.C	NPOC:0.3429mg/L
3	Unknown	NPOC	MBLK-06272024		05.10.2024.CAL.C	NPOC:0.2544mg/L
4	Unknown	NPOC	LCS-06272024	3100607917	05.10.2024.CAL.C	NPOC:9.196mg/L
5	Unknown	NPOC	LCSD-06272024		05.10.2024.CAL.C	NPOC:9.297mg/L
6	Unknown	NPOC	HS24061139-03		05.10.2024.CAL.C	NPOC:1.949mg/L
7	Unknown	NPOC	HS24061139-05DF2	TOC_W	05.10.2024.CAL.C	NPOC:8.441mg/L
8	Unknown	NPOC	HS24061139-06DF2		05.10.2024.CAL.C	NPOC:6.143mg/L
9	Unknown	NPOC	HS24060619-01		05.10.2024.CAL.C	NPOC:14.45mg/L
10	Unknown	NPOC	HS24060619-01MS		05.10.2024.CAL.C	NPOC:22.45mg/L
11	Unknown	NPOC	HS24060619-02		05.10.2024.CAL.C	NPOC:11.68mg/L
12	Unknown	NPOC	HS24060619-03		05.10.2024.CAL.C	NPOC:16.09mg/L
13	Unknown	NPOC	CCV	325105406	05.10.2024.CAL.C	NPOC:23.64mg/L
14	Unknown	NPOC	CCB		05.10.2024.CAL.C	NPOC:0.2807mg/L
15	Unknown	NPOC	HS24060619-04		05.10.2024.CAL.C	NPOC:21.50mg/L
16	Unknown	NPOC	HS24060619-05		05.10.2024.CAL.C	NPOC:9.942mg/L
17	Unknown	NPOC	HS24060619-06		05.10.2024.CAL.C	NPOC:10.14mg/L
18	Unknown	NPOC	HS24060619-07		05.10.2024.CAL.C	NPOC:14.02mg/L
19	Unknown	NPOC	CCV	325105406	05.10.2024.CAL.C	NPOC:23.36mg/L
20	Unknown	NPOC	CCB		05.10.2024.CAL.C	NPOC:0.2890mg/L
21	Unknown	NPOC	MBLK-06272024		05.10.2024.CAL.C	NPOC:0.1521mg/L
22	Unknown	NPOC	LCS-06272024		05.10.2024.CAL.C	NPOC:9.140mg/L
23	Unknown	NPOC	LCSD-06272024	TOC_W	05.10.2024.CAL.C	NPOC:9.266mg/L
24	Unknown	NPOC	HS24060619-08		05.10.2024.CAL.C	NPOC:13.81mg/L
25	Unknown	NPOC	HS24060619-08MS		05.10.2024.CAL.C	NPOC:21.98mg/L
26	Unknown	NPOC	HS24060619-09		05.10.2024.CAL.C	NPOC:14.95mg/L
27	Unknown	NPOC	HS24060619-10		05.10.2024.CAL.C	NPOC:31.64mg/L
28	Unknown	NPOC	HS24060619-11		05.10.2024.CAL.C	NPOC:14.31mg/L
29	Unknown	NPOC	HS24060619-12		05.10.2024.CAL.C	NPOC:24.43mg/L
30	Unknown	NPOC	HS24060768-01		05.10.2024.CAL.C	NPOC:2.763mg/L
31	Unknown	NPOC	CCV	325105406	05.10.2024.CAL.C	NPOC:23.44mg/L
32	Unknown	NPOC	CCB		05.10.2024.CAL.C	NPOC:0.3507mg/L
33	Unknown	NPOC	HS24060768-02		05.10.2024.CAL.C	NPOC:4.110mg/L
34	Unknown	NPOC	HS24060768-03		05.10.2024.CAL.C	NPOC:7.658mg/L
35	Unknown	NPOC	HS24060768-04		05.10.2024.CAL.C	NPOC:2.388mg/L
36	Unknown	NPOC	HS24060768-05		05.10.2024.CAL.C	NPOC:2.940mg/L
37	Unknown	NPOC	CCV	325105406	05.10.2024.CAL.C	NPOC:23.57mg/L
38	Unknown	NPOC	CCB		05.10.2024.CAL.C	NPOC:0.2866mg/L
39	Unknown	NPOC	MBLK-06272024		05.10.2024.CAL.C	NPOC:0.1596mg/L
40	Unknown	NPOC	LCS-06272024		05.10.2024.CAL.C	NPOC:9.228mg/L
41	Unknown	NPOC	LCSD-06272024	TOC_W	05.10.2024.CAL.C	NPOC:9.217mg/L
42	Unknown	NPOC	HS24061278-01DF20		05.10.2024.CAL.C	NPOC:4.406mg/L
43	Unknown	NPOC	HS24061278-02DF20		05.10.2024.CAL.C	NPOC:1.641mg/L
44	Unknown	NPOC	HS24061278-03DF20		05.10.2024.CAL.C	NPOC:15.01mg/L
45	Unknown	NPOC	HS24061278-04DF20		05.10.2024.CAL.C	NPOC:3.860mg/L
46	Unknown	NPOC	HS24061278-05DF20	TOC_W	05.10.2024.CAL.C	NPOC:33.99mg/L
47	Unknown	NPOC	HS24061278-06DF20		05.10.2024.CAL.C	NPOC:12.07mg/L
48	Unknown	NPOC	HS24061572-01		05.10.2024.CAL.C	NPOC:14.45mg/L
49	Unknown	NPOC	CCV	325105406	05.10.2024.CAL.C	NPOC:23.66mg/L
50	Unknown	NPOC	CCB		05.10.2024.CAL.C	NPOC:0.2968mg/L
51	Unknown	NPOC	HS24060883-11		05.10.2024.CAL.C	NPOC:2.394mg/L
52	Unknown	NPOC	HS24060883-24		05.10.2024.CAL.C	NPOC:3.039mg/L
53	Unknown	NPOC	HS24060883-25	TOC_W	05.10.2024.CAL.C	NPOC:2.774mg/L

	Notes	Status	Date / Time	Vial
1		Completed	6/27/2024 4:46:30 PM	1
2		Completed	6/27/2024 4:55:22 PM	2
3		Completed	6/27/2024 5:05:26 PM	3
4		Completed	6/27/2024 5:16:48 PM	4
5		Completed	6/27/2024 5:26:54 PM	5
6		Completed	6/27/2024 5:35:49 PM	6
7		Completed	6/27/2024 5:46:42 PM	7
8		Completed	6/27/2024 5:56:44 PM	8
9		Completed	6/27/2024 6:07:41 PM	9
10		Completed	6/27/2024 6:18:30 PM	10
11		Completed	6/27/2024 6:28:43 PM	11
12		Completed	6/27/2024 6:39:18 PM	12
13		Completed	6/27/2024 7:00:00 PM	1
14		Completed	6/27/2024 7:08:54 PM	2
15		Completed	6/27/2024 7:29:22 PM	13
16		Completed	6/27/2024 7:39:35 PM	14
17		Completed	6/27/2024 7:49:32 PM	15
18		Completed	6/27/2024 7:59:48 PM	16
19		Completed	6/27/2024 8:20:51 PM	1
20		Completed	6/27/2024 8:29:47 PM	2
21		Completed	6/27/2024 8:39:47 PM	3
22		Completed	6/27/2024 8:50:49 PM	4
23		Completed	6/27/2024 9:01:08 PM	5
24		Completed	6/27/2024 9:21:49 PM	17
25		Completed	6/27/2024 9:32:25 PM	18
26		Completed	6/27/2024 9:43:02 PM	19
27		Completed	6/27/2024 9:54:57 PM	20
28		Completed	6/27/2024 10:05:39 PM	21
29		Completed	6/27/2024 10:17:30 PM	22
30		Completed	6/27/2024 10:27:06 PM	23
31		Completed	6/27/2024 10:38:13 PM	24
32		Completed	6/27/2024 10:47:05 PM	25
33		Completed	6/27/2024 10:57:57 PM	26
34		Completed	6/27/2024 11:17:52 PM	27
35		Completed	6/27/2024 11:27:45 PM	28
36		Completed	6/27/2024 11:37:54 PM	29
37		Completed	6/27/2024 11:59:04 PM	24
38		Completed	6/28/2024 12:07:57 AM	25
39		Completed	6/28/2024 12:26:58 AM	3
40		Completed	6/28/2024 12:38:25 AM	4
41		Completed	6/28/2024 12:48:29 AM	5
42		Completed	6/28/2024 1:08:15 AM	30
43		Completed	6/28/2024 1:17:50 AM	31
44		Completed	6/28/2024 1:29:19 AM	32
45		Completed	6/28/2024 1:38:59 AM	33
46		Completed	6/28/2024 1:50:03 AM	34
47		Completed	6/28/2024 2:00:21 AM	35
48		Completed	6/28/2024 2:10:13 AM	36
49		Completed	6/28/2024 2:31:09 AM	24
50		Completed	6/28/2024 2:40:02 AM	25
51		Completed	6/28/2024 2:59:30 AM	37
52		Completed	6/28/2024 3:09:51 AM	38
53		Completed	6/28/2024 3:19:35 AM	39

C:\TOC-L\Data\2024_06_27_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Result
54	Unknown	NPOC	HS24060883-25MS		05.10.2024.CAL.C	NPOC:11.17mg/L
55	Unknown	NPOC	CCV	325105406	05.10.2024.CAL.C	NPOC:23.62mg/L
56	Unknown	NPOC	CCB		05.10.2024.CAL.C	NPOC:0.3156mg/L

	Notes	Status	Date / Time	Vial
54		Completed	6/28/2024 3:30:29 AM	40
55		Completed	6/28/2024 9:26:26 AM	1
56		Completed	6/28/2024 9:35:24 AM	2

HS24061572 Wetchem TOC_W INJECT

ALS WO# HS24061572

TOC-Control L Report

Instr.Information

Instrument Options TOC/ASI/IC Unit/Sparge Kit/
Catalyst Regular Sensitivity

Sample

Sample Name: CCV
Sample ID: 325105406
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

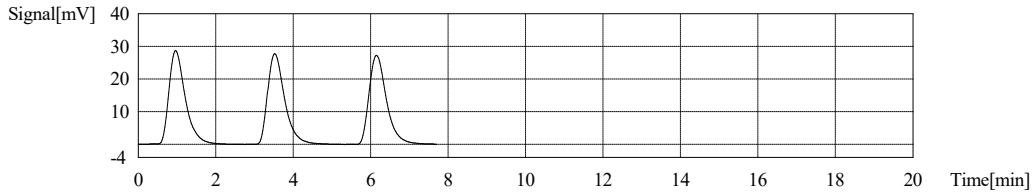
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.57mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	84.78	23.60mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/27/2024 11:52:47 PM
2	84.73	23.59mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/27/2024 11:55:57 PM
3	84.53	23.53mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/27/2024 11:59:04 PM

Mean Area 84.68
Mean Conc. 23.57mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2866mg/L

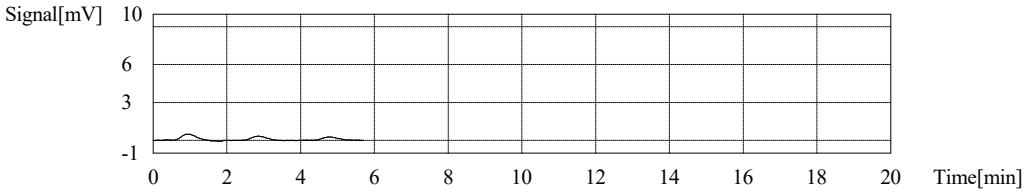
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.493	0.4156mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:03:00 AM
2	0.9242	0.2573mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:05:29 AM
3	0.6717	0.1870mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:07:57 AM

TOC-Control L Report

Mean Area 1.030
Mean Conc. 0.2866mg/L



Sample

Sample Name: MBLK-06272024
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

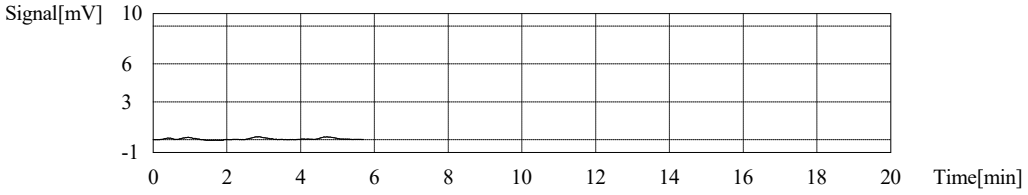
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1596mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6872	0.1913mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:22:00 AM
2	0.5645	0.1571mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:24:29 AM
3	0.4682	0.1303mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:26:58 AM

Mean Area 0.5733
Mean Conc. 0.1596mg/L



Sample

Sample Name: LCS-06272024
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.228mg/L

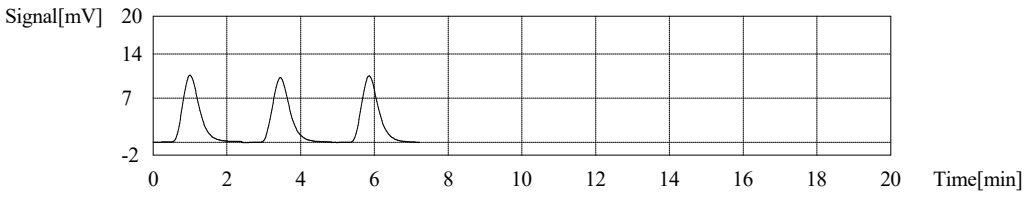
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.80	9.131mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:32:28 AM
2	33.17	9.234mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:35:28 AM
3	33.48	9.320mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:38:25 AM

TOC-Control L Report

Mean Area 33.15
Mean Conc. 9.228mg/L



Sample

Sample Name: LCSD-06272024
Sample ID: TOC_W
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

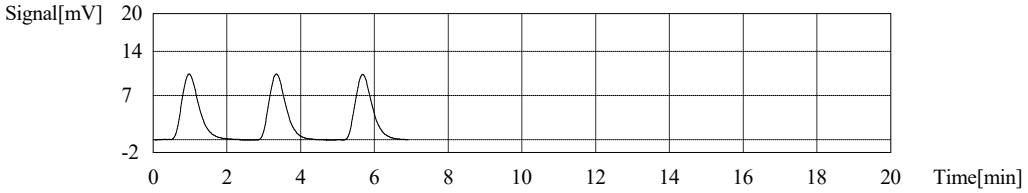
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.217mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.04	9.198mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:42:47 AM
2	33.18	9.237mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:45:41 AM
3	33.11	9.217mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 12:48:29 AM

Mean Area 33.11
Mean Conc. 9.217mg/L



Sample

Sample Name: HS24061572-01
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.45mg/L

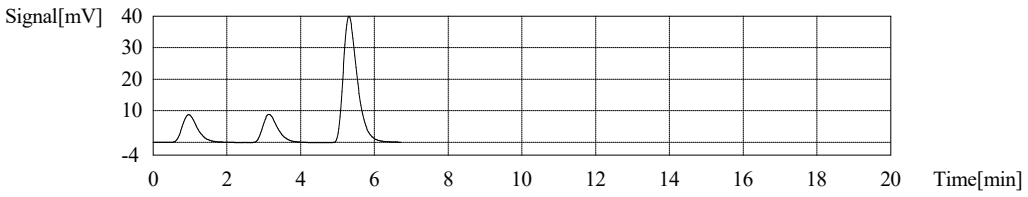
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.01	6.962mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 2:04:33 AM
2	25.27	7.035mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 2:07:21 AM
3	105.4	29.34mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 2:10:13 AM

TOC-Control L Report

Mean Area 51.89
Mean Conc. 14.45mg/L



Sample

Sample Name: CCV
Sample ID: 325105406
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

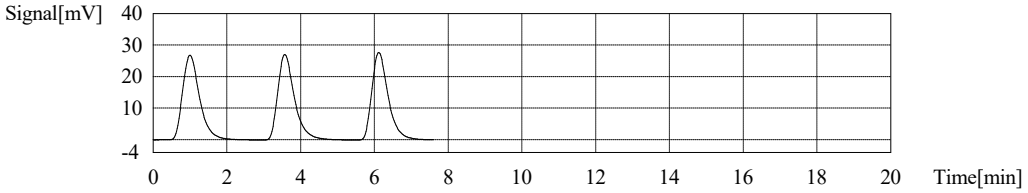
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.66mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.43	23.78mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 2:24:57 AM
2	84.61	23.55mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 2:28:05 AM
3	84.94	23.65mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 2:31:09 AM

Mean Area 84.99
Mean Conc. 23.66mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2968mg/L

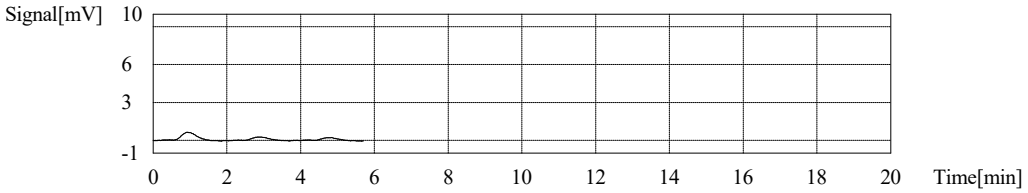
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.765	0.4913mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 2:35:04 AM
2	0.8172	0.2275mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 2:37:33 AM
3	0.6162	0.1715mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 2:40:02 AM

TOC-Control L Report

Mean Area 1.066
Mean Conc. 0.2968mg/L



Sample

Sample Name: HS24060883-25MS
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

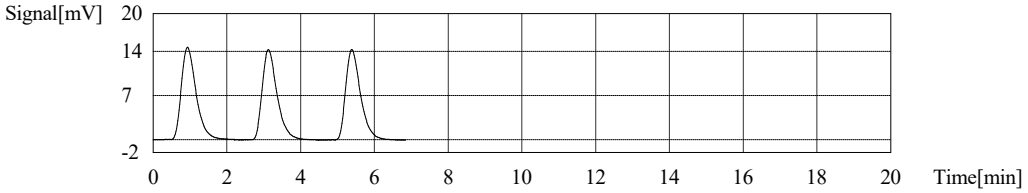
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.17mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.34	11.23mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 3:24:40 AM
2	40.00	11.14mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 3:27:31 AM
3	40.06	11.15mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 3:30:29 AM

Mean Area 40.13
Mean Conc. 11.17mg/L



Sample

Sample Name: CCV
Sample ID: 325105406
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.62mg/L

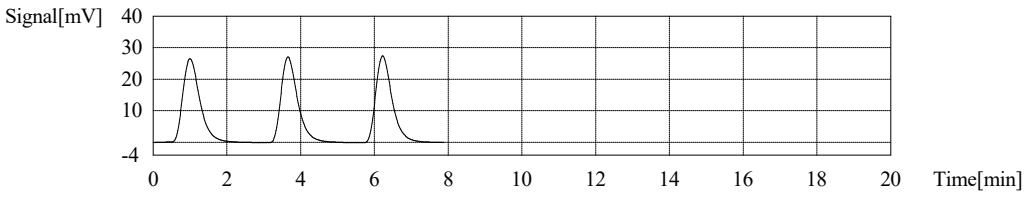
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.29	23.74mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 9:20:03 AM
2	84.60	23.55mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 9:23:12 AM
3	84.68	23.57mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 9:26:26 AM

TOC-Control L Report

Mean Area 84.86
Mean Conc. 23.62mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 05.10.2024.CAL.CELL.cal
Status Completed
Chk. Result

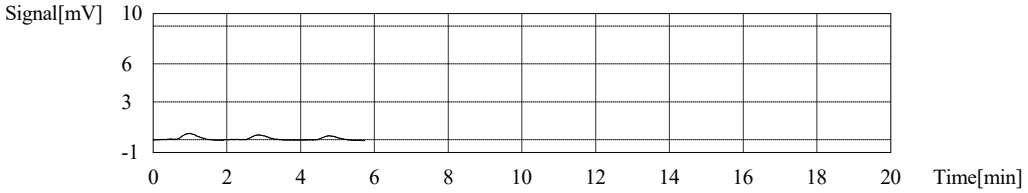
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3156mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.409	0.3922mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 9:30:24 AM
2	1.088	0.3029mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 9:32:55 AM
3	0.9042	0.2517mg/L	50uL	1.000		05.10.2024.CAL.CELL.2024_05_10_17_55_32.cal	6/28/2024 9:35:24 AM

Mean Area 1.134
Mean Conc. 0.3156mg/L



HS24061572 E2400757 Perch Level IV Report

ALS WO# HS24061572

June 28, 2024 Service Request No:E2400757

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24061572

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 26, 2024
For your reference, these analyses have been assigned our service request number **E2400757.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400757
Project:	HS24061572	**Date Received:**	06/26/24 - 06/27/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Two samples were received for analysis at ALS Environmental in Houston on 06/26/24 - 06/27/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400363: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400757
Project: HS24061572

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400757-001	LH18/24-SP650_062524_BIX	6/25/2024	1300
E2400757-002	LH18/24-SP650_062524_AIX	6/25/2024	1300

Service Request Summary

Folder #: **E2400757**
Client Name: ALS Environmental - US
Project Name: HS24061572
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/26/24 - 06/27/24
Internal Due Date: 6/28/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400757-001	LH18/24-SP650_062524_BIX	Water	06/25/24 1300	**IV**
E2400757-002	LH18/24-SP650_062524_AIX	Water	06/25/24 1300	**IV**

Service Request Summary

Folder #: **E2400757**
Client Name: ALS Environmental - US
Project Name: HS24061572
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/26/24 - 06/27/24
Internal Due Date: 6/28/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 1D
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

E2400757 5
ALS Group USA, Corp.
HS24061572

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **26167**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24061572
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24061572-02**	**LH18/24-SP650_062524_BIX**	**Water**	**25 Jun 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			27 Jun 2024
2.	**HS24061572-03**	**LH18/24-SP650_062524_AIX**	**Water**	**25 Jun 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			27 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E2400757 5
ALS Group USA, Corp.
HS24061572

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24061572 **Date/Time received:** 26 Jun 2024 10:00

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 26 Jun 2024 14:54 Kaycee Rogers **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: W **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	1 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		
Temperature(s)/Thermometer(s):	1.7UC/1.8C		IR 31	
Cooler Information:	1 Cooler(s), 49175			
Date/Time sample(s) sent to storage:	06/26/2024 1454			
Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted	
Water - pH acceptable upon receipt?	☐ Yes	☐ No	☑ Not Applicable	
pH adjusted?	☐ Yes	☐ No	☑ Not Applicable	

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
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SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 440806 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** **Prep Date/Time:** 6/27/24 15:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400728-001	2406170901B 600A-001	.04	6850/ClO4			Water	10mL	
2	E2400728-002	2406170950A 100-E-261	.04	6850/ClO4			Water	10mL	
3	E2400728-003	2406171417B 600A-002	.01	6850/ClO4			Water	10mL	
4	E2400752-001	20240620-GW-04	.01	6850/ClO4 DOD			Water	10mL	
5	E2400757-001	LH18/24-SP650_062524_BIX	.02	6850/ClO4 DOD			Water	10mL	
6	E2400757-002	LH18/24-SP650_062524_AIX	.01	6850/ClO4 DOD			Water	10mL	
7	EQ2400363-01	MB		6850/ClO4			Liquid	10mL	
8	EQ2400363-02	LCS		6850/ClO4			Liquid	10mL	
9	EQ2400363-03	DLCS		6850/ClO4			Liquid	10mL	
10	EQ2400363-04	ICS		6850/ClO4			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400363-02 10.00µL EQ2400363-03 10.00µL EQ2400363-04 10.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400363-04 20.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400752-001 100.00µL E2400757-001 100.00µL E2400757-002 100.00µL EQ2400363-01 100.00µL EQ2400363-02 100.00µL EQ2400363-03 100.00µL
EQ2400363-04 100.00µL

Preparation Materials

6850 Luer-Lok Syringes Luer Lok Syringes (235268)

Preparation Steps

Step: Preparation
Started: 6/27/24 15:00
Finished: 6/27/24 16:00
By: JOSEL.JUAREZ
Comments

Comments:

Preparation Information Benchsheet

Prep Run#: 440806 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** **Prep Date/Time:** 6/27/24 15:00

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Collected:**	6/25/24 1300
Sample Matrix:	Water	**Date Received:**	6/26/24
Sample Name:	LH18/24-SP650_062524_BIX	**Units:**	µg/L
Lab Code:	E2400757-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.718**		0.100	0.0500	0.0250	1	6/27/24	6/28/24 10:40	440806	845899	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Collected:**	6/25/24 1300
Sample Matrix:	Water	**Date Received:**	6/27/24
Sample Name:	LH18/24-SP650_062524_AIX	**Units:**	µg/L
Lab Code:	E2400757-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0444**	J	0.100	0.0500	0.0250	1	6/27/24	6/28/24 10:45	440806	845899	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400363-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/27/24	6/28/24 10:18	440806	845899	

Accuracy & Precision

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Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Analyzed:**	06/28/24
Sample Matrix:	Water		

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
		Basis:	NA
		Analysis Lot:	845899

	Lab Control Sample EQ2400363-02			Duplicate Lab Control Sample EQ2400363-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.118	0.100	118	0.104	0.100	104	84-119	12	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400363-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.118**		0.100	0.0500	0.0250	1	6/27/24	6/28/24 10:23	440806	845899	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400757
Project:	HS24061572	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400363-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.104**		0.100	0.0500	0.0250	1	6/27/24	6/28/24 10:29	440806	845899	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
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843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

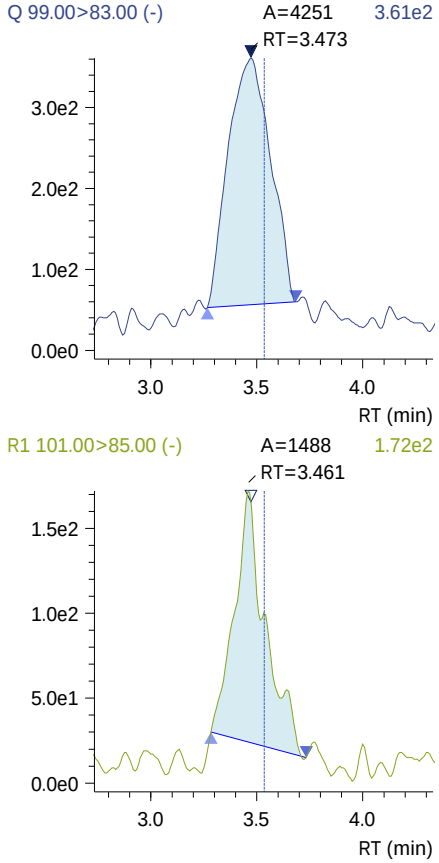
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

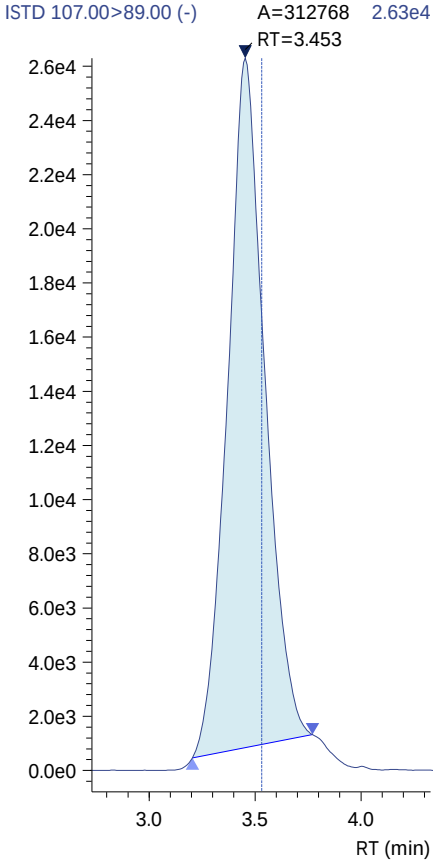
Perchlorate

Conc 0.0931
R#1 35.01 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

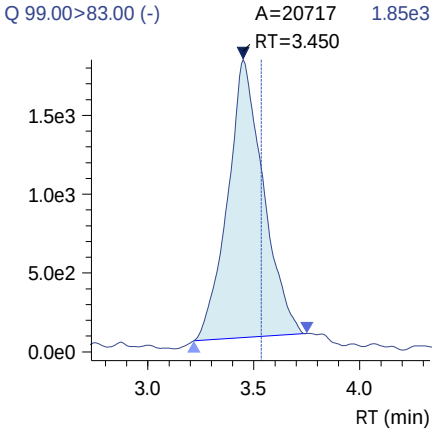
Perchlorate ICAL 2

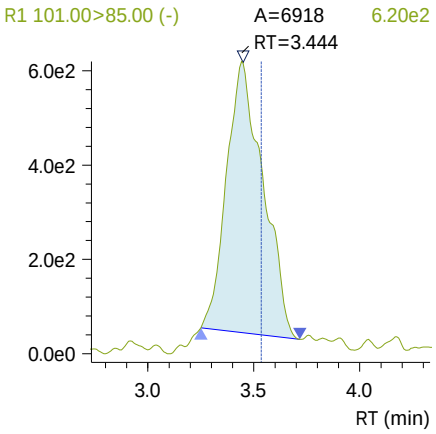
Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

Perchlorate

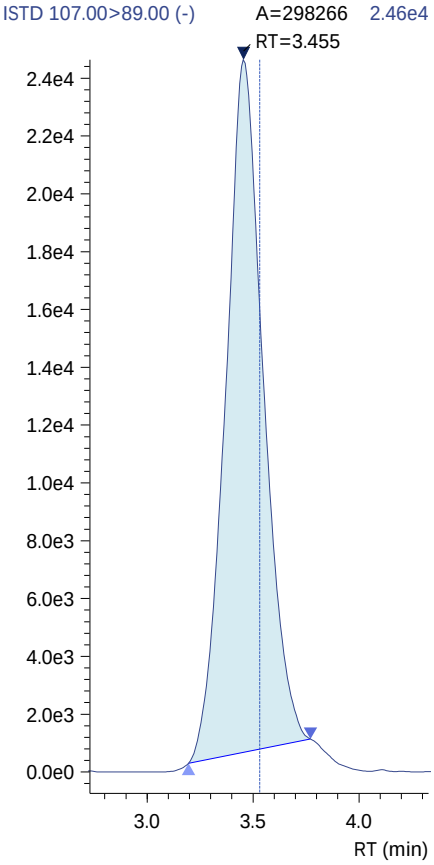
Conc 0.4757
R#1 33.39 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

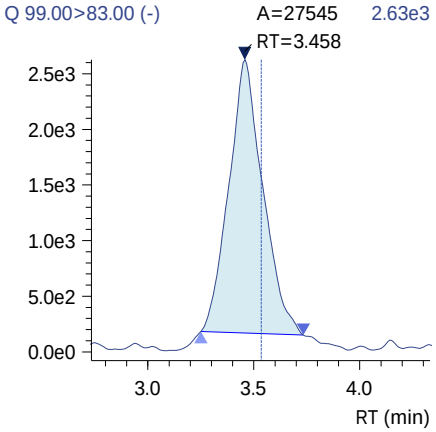
Perchlorate ICAL 3

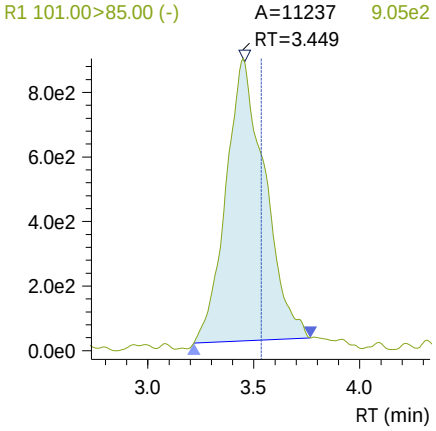
Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

Perchlorate

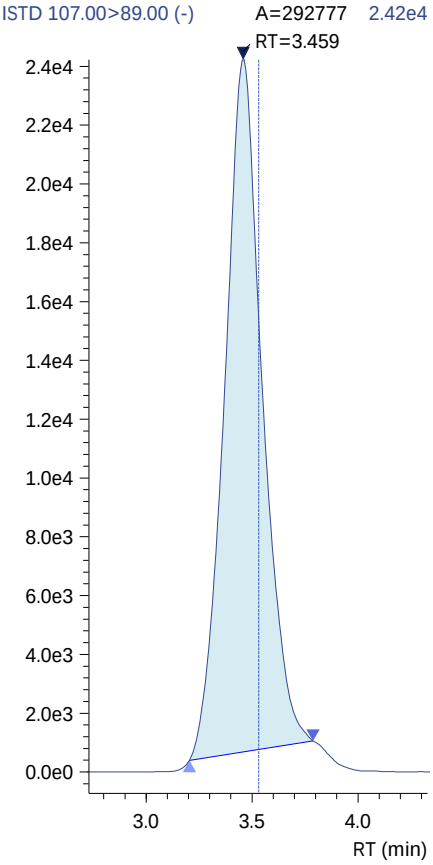
Conc 0.6444
R#1 40.79 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

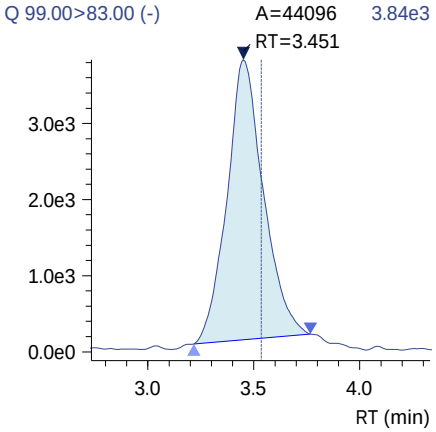
Perchlorate ICAL 4

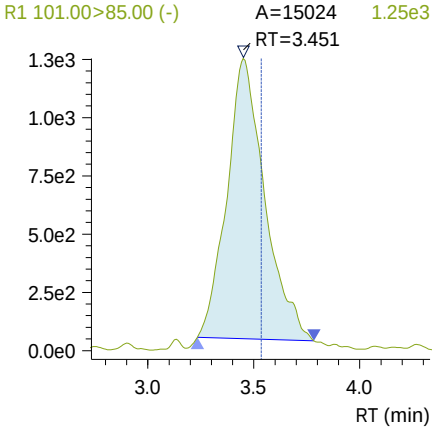
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

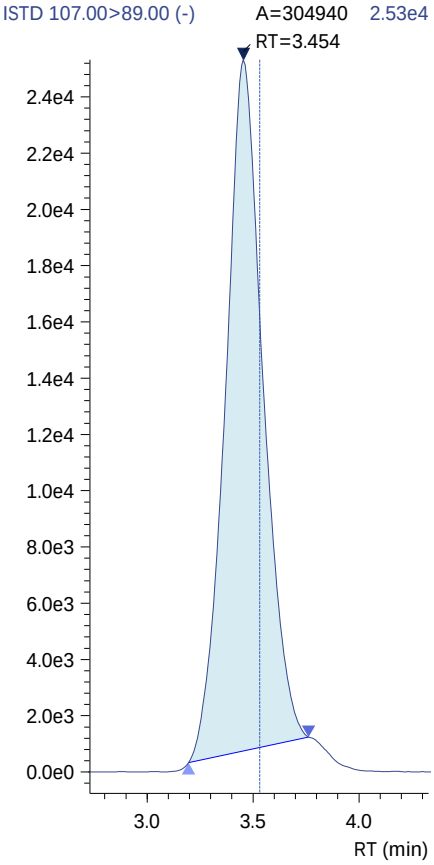
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

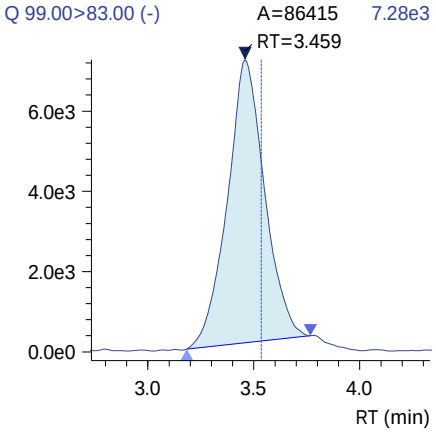
Perchlorate ICAL 5

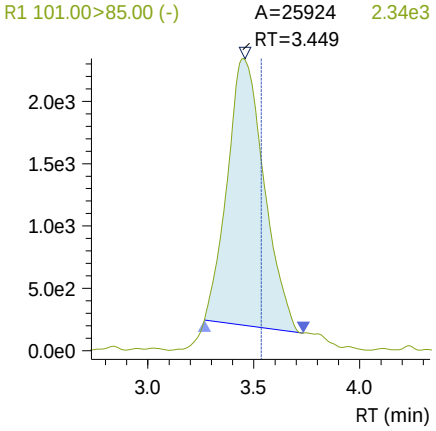
Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

Perchlorate

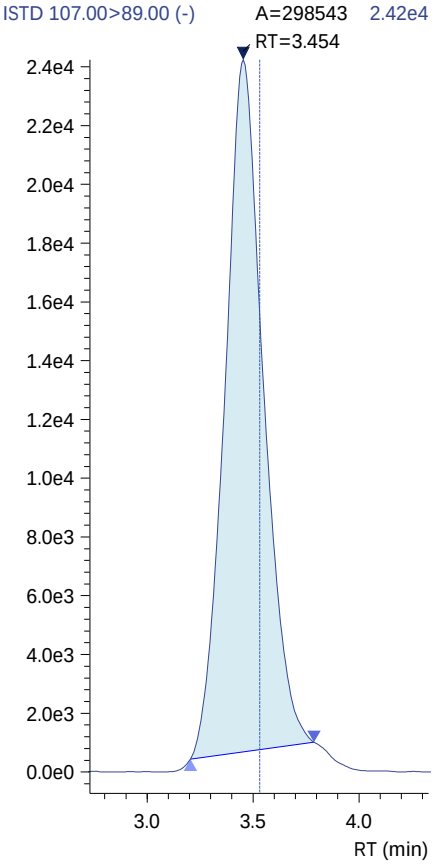
Conc 1.9825
R#1 30.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

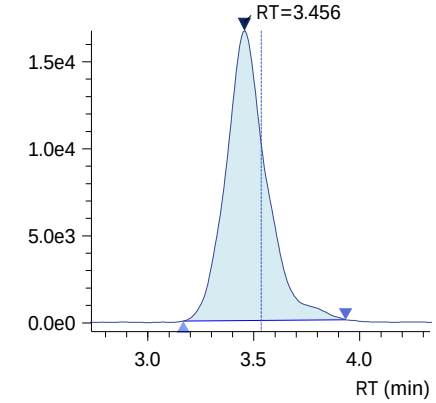
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

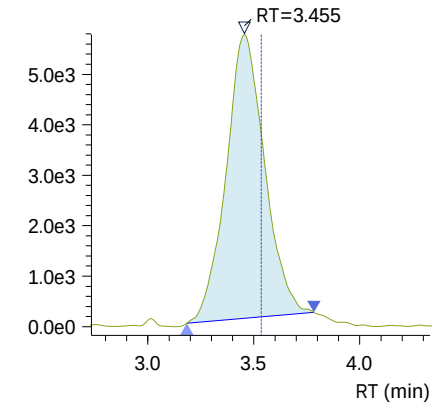
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4 RT=3.456



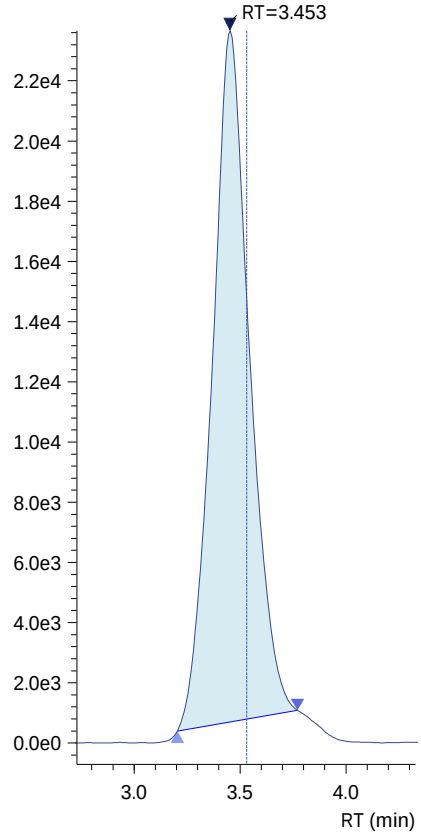
R1 101.00>85.00 (-) A=71270 5.79e3 RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4 RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

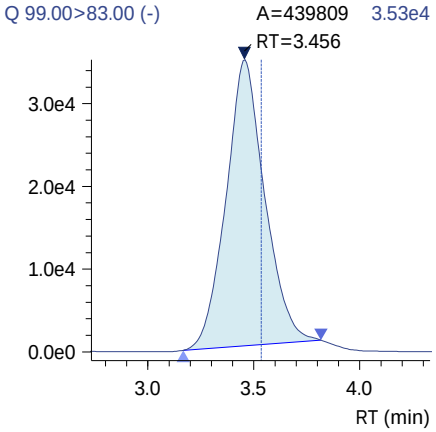
Perchlorate ICAL 7

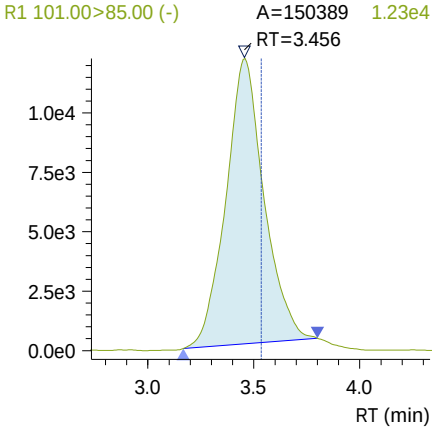
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

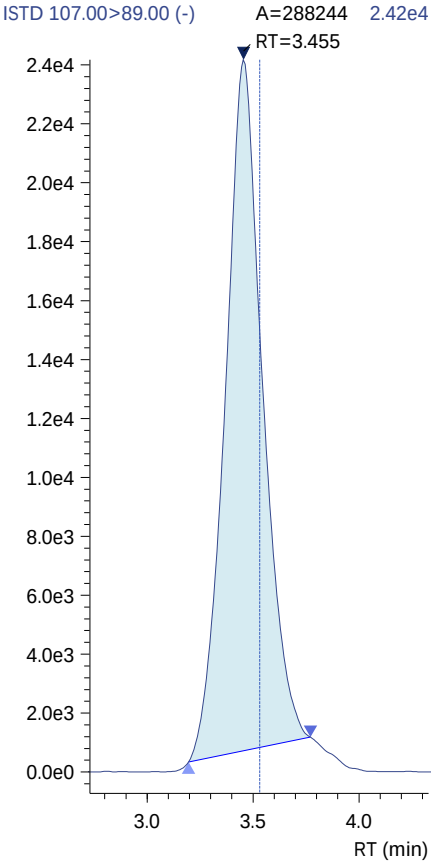
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

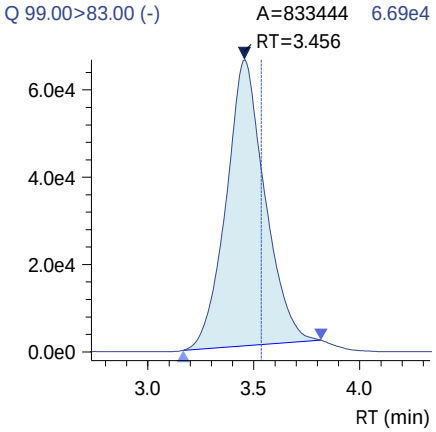
Perchlorate ICAL 8

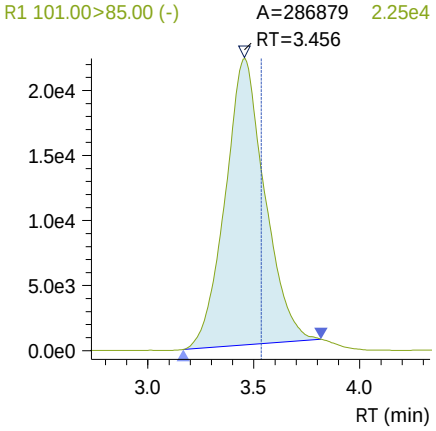
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9	ng/mL	101.00	34.42	23.50
					364		>85.00		-43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

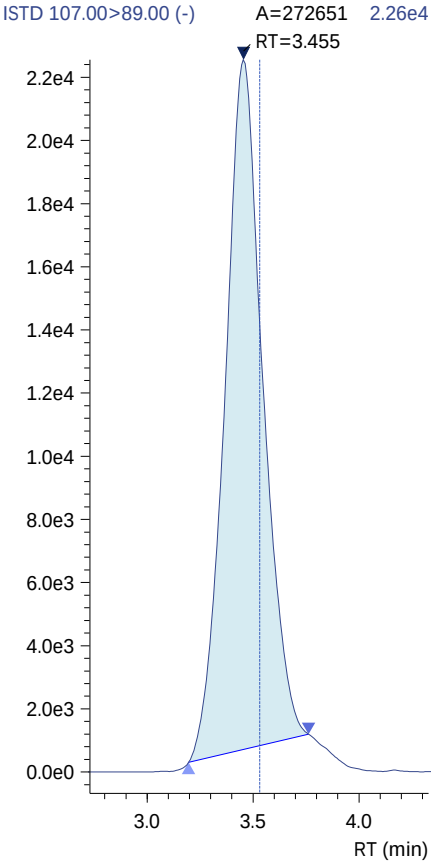
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

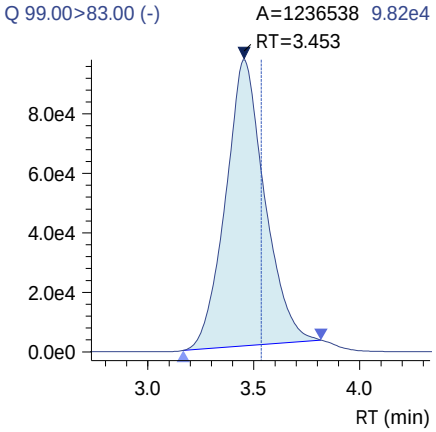
Perchlorate ICAL 9

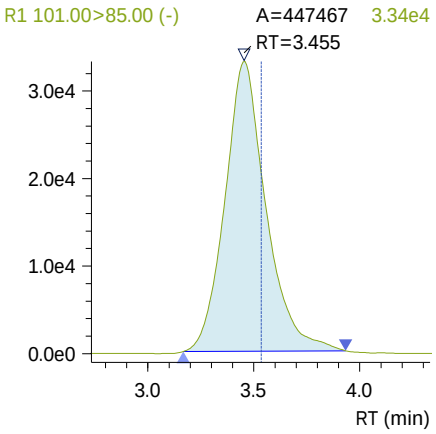
Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365	276997	30.5	ng/mL	101.00	36.19	23.50
			38		749		>85.00		-43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

Perchlorate

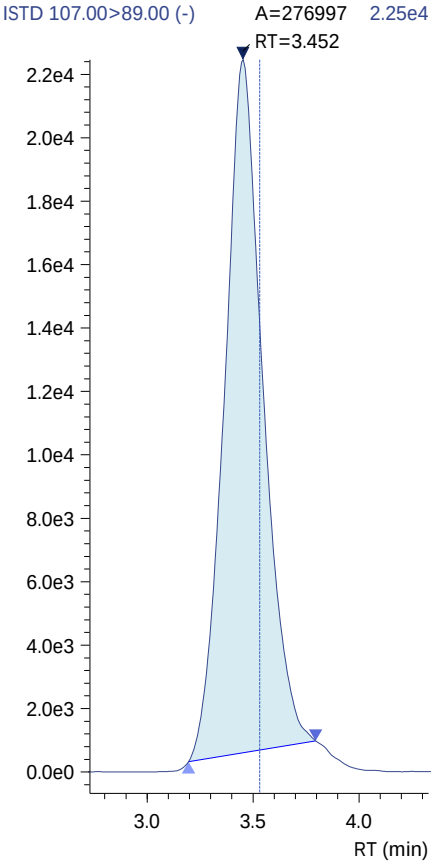
Conc 30.5749
R#1 36.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

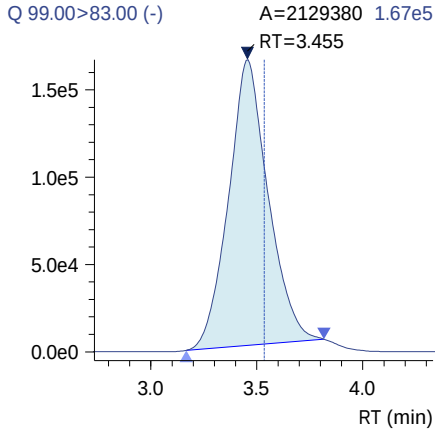
Perchlorate ICAL 10

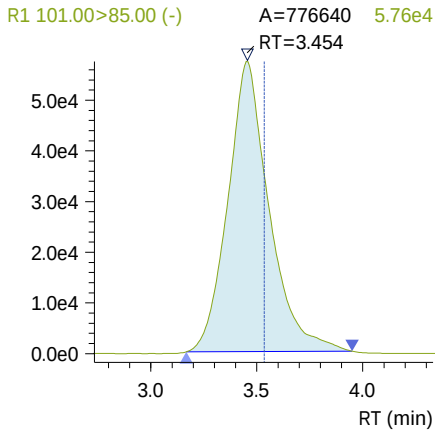
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

Perchlorate

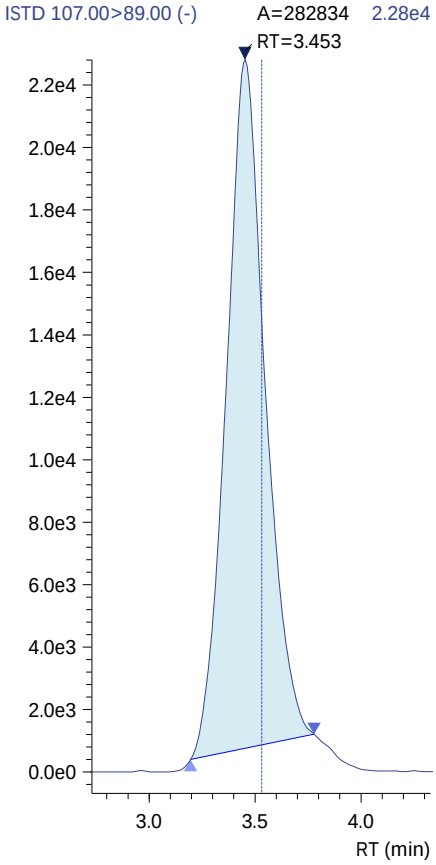
Conc 51.5649
R#1 36.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

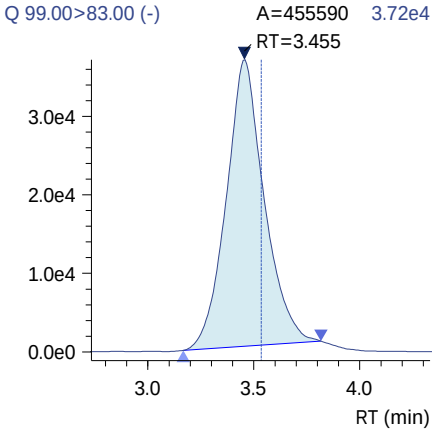
PerchlorateICV

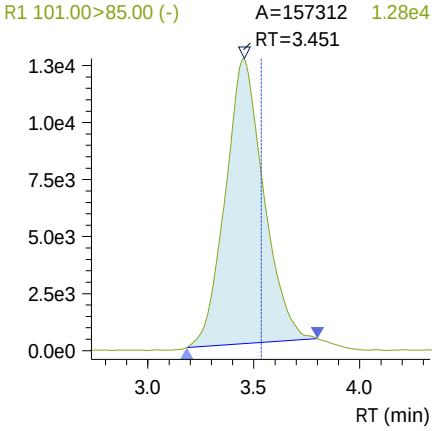
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2	ng/mL	101.00	34.53	23.50
					823		>85.00		-43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

Perchlorate

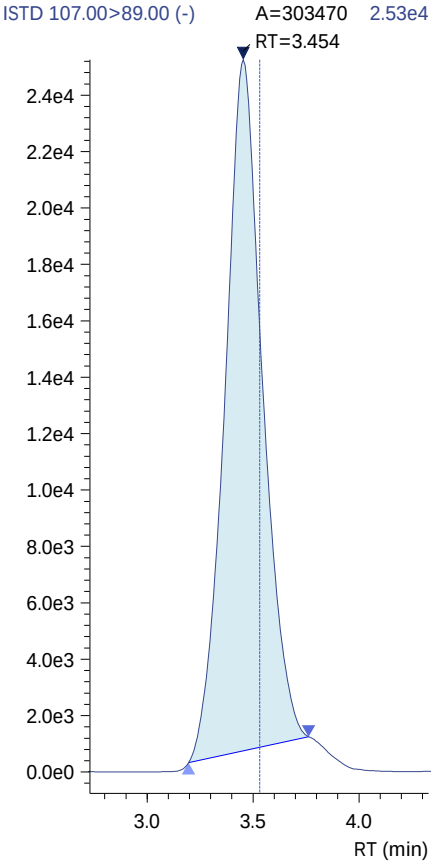
Conc 10.2823
R#1 34.53 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211813-9 B:**Acetonitrile 235171
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240628-001	IB	Perchlorate6850c.lcm	1x		6/28/2024 9:30
2	20240628-002	LODV	Perchlorate6850c.lcm	1x		6/28/2024 9:36
3	20240628-003	ICS	Perchlorate6850c.lcm	1x	DNU	6/28/2024 9:41
4	20240628-004	CCV	Perchlorate6850c.lcm	1x		6/28/2024 10:00
5	20240628-005	IB	Perchlorate6850c.lcm	1x		6/28/2024 10:06
6	20240628-006	ICS	Perchlorate6850c.lcm	1x	DNU	6/28/2024 10:12
7	20240628-007	EQ2400363-01MB	Perchlorate6850c.lcm	1x		6/28/2024 10:18
8	20240628-008	EQ2400363-02LCS	Perchlorate6850c.lcm	1x		6/28/2024 10:23
9	20240628-009	EQ2400363-03DLCS	Perchlorate6850c.lcm	1x		6/28/2024 10:29
10	20240628-010	EQ2400363-04ICS	Perchlorate6850c.lcm	1x		6/28/2024 10:34
11	20240628-011	E2400757-001	Perchlorate6850c.lcm	1x		6/28/2024 10:40
12	20240628-012	E2400757-002	Perchlorate6850c.lcm	1x		6/28/2024 10:45
13	20240628-013	E2400728-001	Perchlorate6850c.lcm	1x	DNU	6/28/2024 10:51
14	20240628-014	E2400728-002	Perchlorate6850c.lcm	1x	DNU	6/28/2024 10:56
15	20240628-015	E2400728-003	Perchlorate6850c.lcm	1x	DNU	6/28/2024 11:02
16	20240628-016	E2400752-001	Perchlorate6850c.lcm	1x	DNU	6/28/2024 11:08
17	20240628-017	CCV	Perchlorate6850c.lcm	1x		6/28/2024 11:13
18	20240628-018	IB	Perchlorate6850c.lcm	1x		6/28/2024 11:19
19	20240628-019	E2400728-001x10	Perchlorate6850c.lcm	10x		6/28/2024 11:24
20	20240628-020	E2400728-002x10	Perchlorate6850c.lcm	10x		6/28/2024 11:30
21	20240628-021	E2400728-003x10	Perchlorate6850c.lcm	10x		6/28/2024 11:35
22	20240628-022	E2400752-001x10	Perchlorate6850c.lcm	10x		6/28/2024 11:41
23	20240628-023	CCV	Perchlorate6850c.lcm	1x		6/28/2024 11:46
24	20240628-024	IB	Perchlorate6850c.lcm	1x		6/28/2024 11:52

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061572

Service Request: E2400757
Date Analyzed: 6/28/24 10:00

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240628\20240628-004
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400365-01
Analysis Lot: 845899
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400365-01	146,291	3.43
Method Blank	EQ2400363-01	146,016	3.43
Lab Control Sample	EQ2400363-02	152,861	3.43
Duplicate Lab Control Sample	EQ2400363-03	151,811	3.43
LH18/24-SP650_062524_BIX	E2400757-001	187,219	3.44
LH18/24-SP650_062524_AIX	E2400757-002	188,633	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061572

Service Request: E2400757
Date Analyzed: 6/28/24 11:13

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240628\20240628-017
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400365-02
Analysis Lot: 845899
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400365-02	146,892	3.43

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061572

Service Request: E2400757
Date Analyzed: 6/28/24 11:46

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240628\20240628-023
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400365-03
Analysis Lot: 845899
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400365-03	147,632	3.43

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061572

Service Request: E2400757
Date Analyzed: 6/28/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240628\20240628-004

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845899
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.3	0.1460	0.1504	3.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061572

Service Request: E2400757
Date Analyzed: 6/28/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240628\20240628-017

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845899
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1460	0.1462	0.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24061572

Service Request: E2400757
Date Analyzed: 6/28/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240628\20240628-023

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 845899
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.73	0.1460	0.1421	-2.7	NA	± 15 %	Average RF

Insight Report

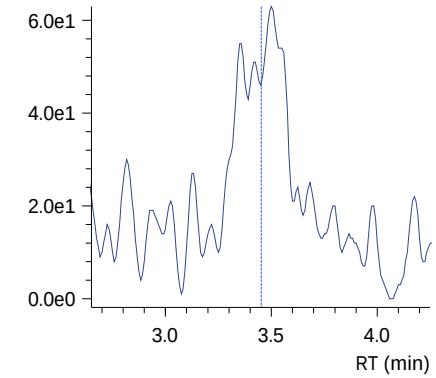
IB

Sample ID: IB
Date Acquired: 6/28/2024 11:19:04 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

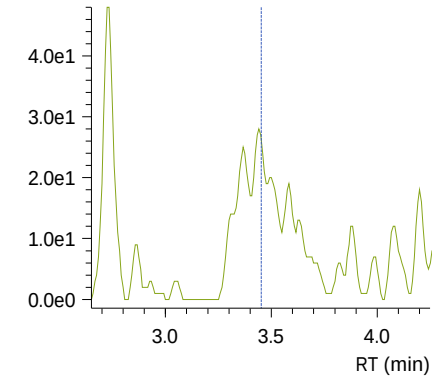
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.30e1



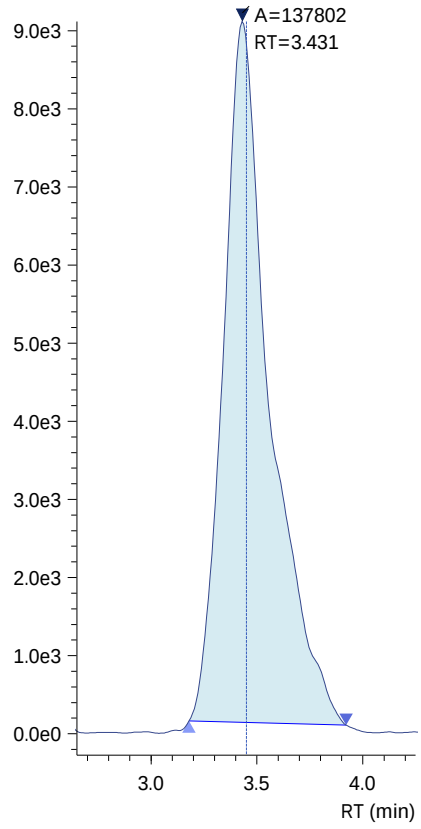
R1 101.00>85.00 (-) 4.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.12e3



Insight Report

Printed at 7/1/2024 8:12:47 AM

Method File: I:\LCMS01\DATA\20240628\20240628.lcm
Project File: I:\LCMS01\DATA\20240628\20240628.damlp

IB

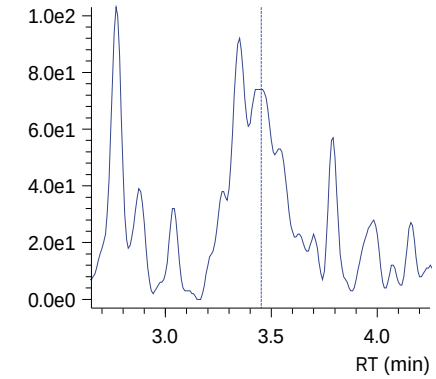
Sample ID: IB
Date Acquired: 6/28/2024 9:30:41 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	148930	----	ng/mL	101.00 >85.00	0.00	23.32 -41.05
Sodium Perchlorate-18O4_IS	M	3.437	148930	148930	1.0000	ng/mL	----	----	

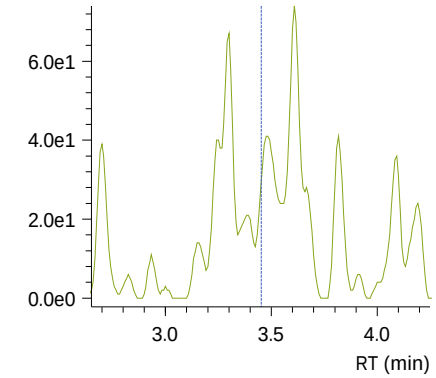
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.03e2



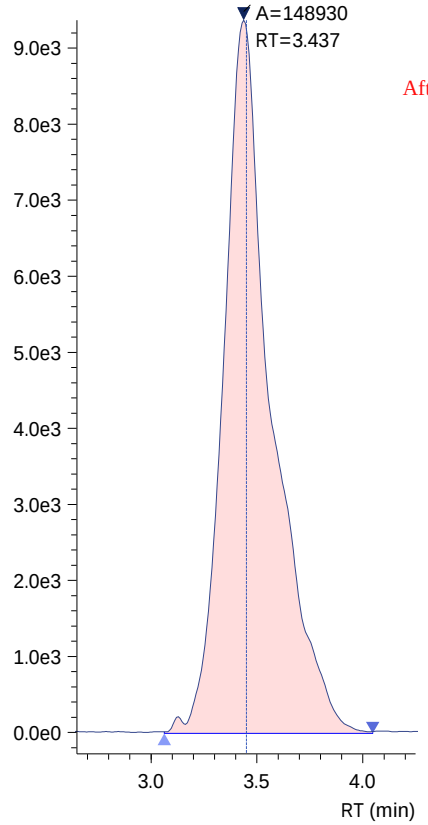
R1 101.00>85.00 (-) 7.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.37e3



Insight Report

Printed at 7/1/2024 8:13:35 AM

Method File: I:\LCMS01\DATA\20240628\20240628.lcm
Project File: I:\LCMS01\DATA\20240628\20240628.damlp

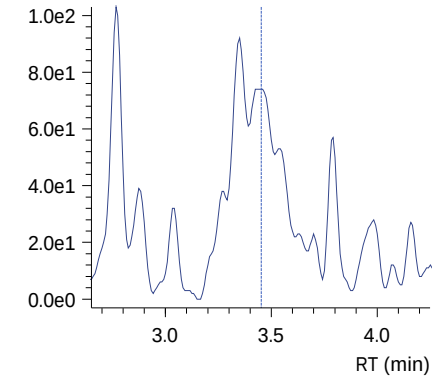
IB

Sample ID: IB
Date Acquired: 6/28/2024 9:30:41 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

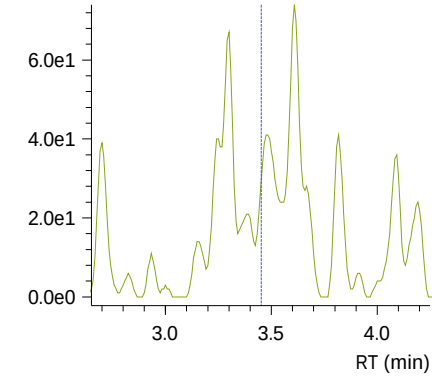
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.03e2



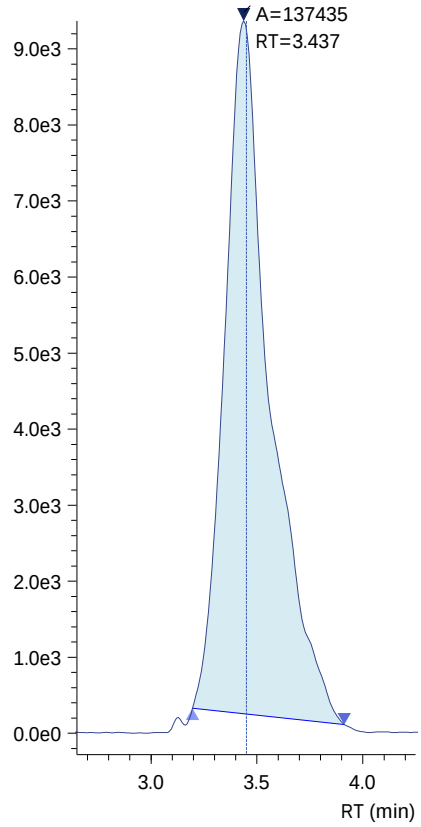
R1 101.00>85.00 (-) 7.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.37e3



Insight Report

Printed at 7/1/2024 8:12:47 AM

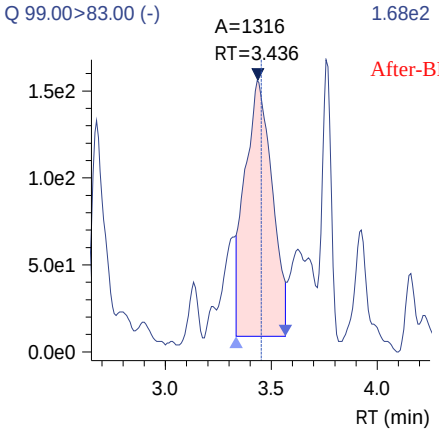
LODV

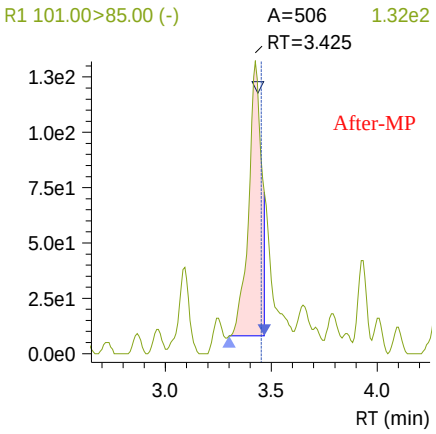
Sample ID: LODV
Date Acquired: 6/28/2024 9:36:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.436	1316	150866	0.0598	ng/mL	101.00 >85.00	38.42	23.32 -41.05
Sodium Perchlorate-18O4 _IS	M	3.432	1508 66	150866	1.0000	ng/mL	----	----	

Perchlorate

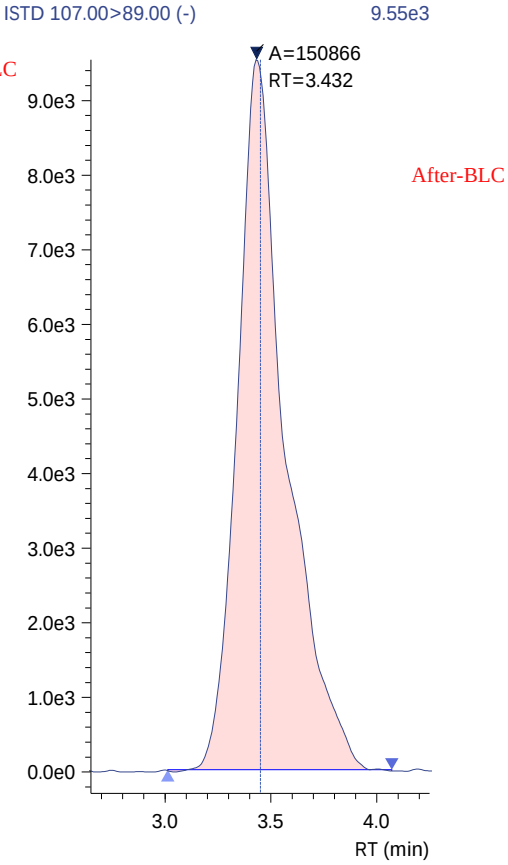
Conc 0.0598
R#1 38.42 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

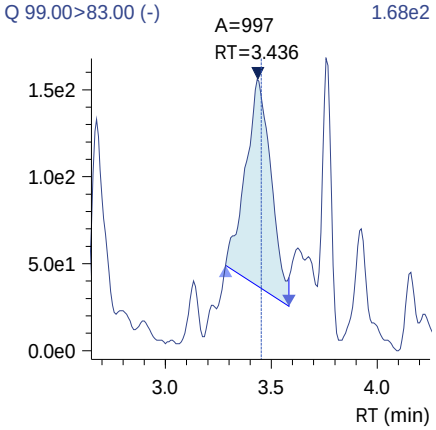
LODV

Sample ID: LODV
Date Acquired: 6/28/2024 9:36:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

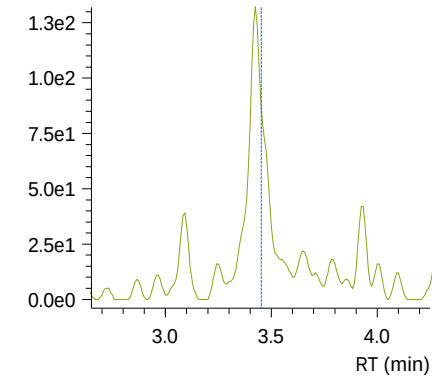
Perchlorate

Conc 0.0465
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 1.68e2



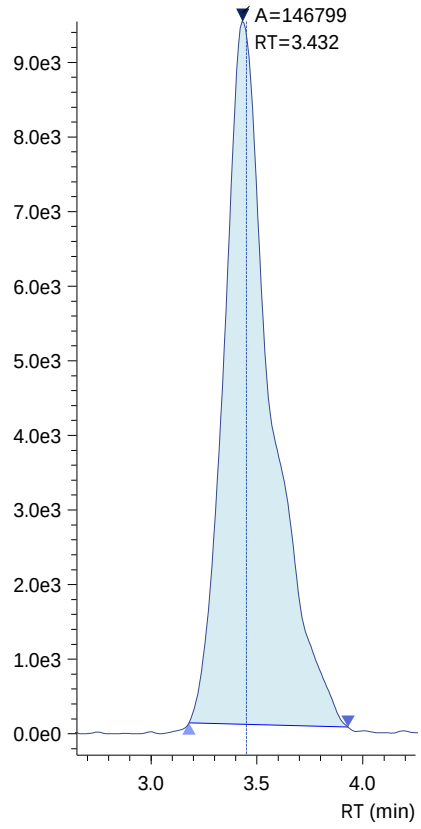
R1 101.00>85.00 (-) 1.32e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.55e3



Insight Report

Printed at 7/1/2024 8:12:47 AM

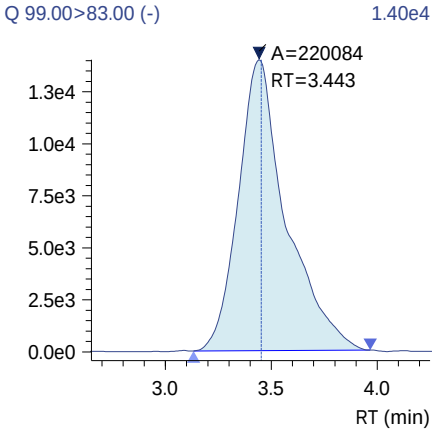
CCV

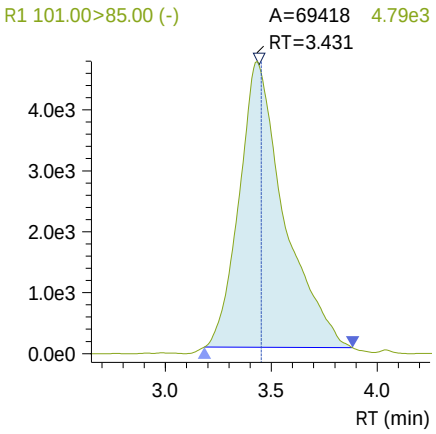
Sample ID: CCV
Date Acquired: 6/28/2024 10:00:30 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.443	220084	146291	10.3040	ng/mL	101.00 >85.00	31.54	23.32 -41.05
Sodium Perchlorate-18O4_IS	M	3.431	146291	146291	1.0000	ng/mL	----	----	

Perchlorate

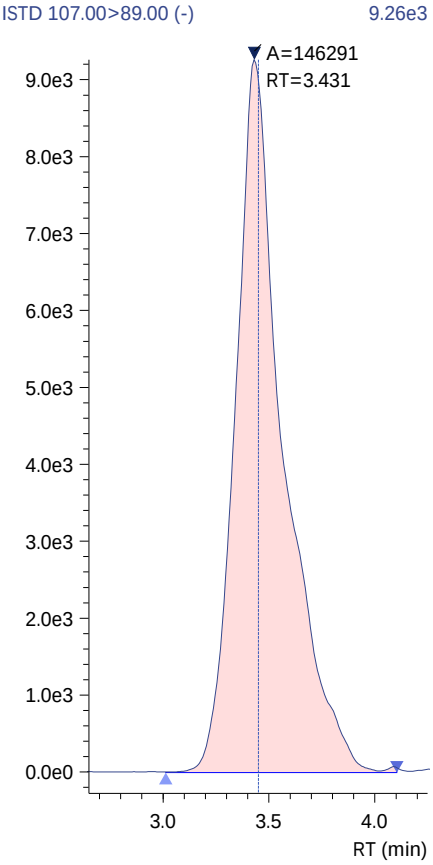
Conc 10.3040
R#1 31.54 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 7/1/2024 8:13:35 AM

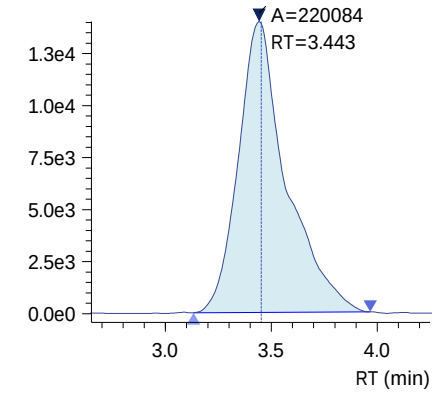
CCV

Sample ID: CCV
Date Acquired: 6/28/2024 10:00:30 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

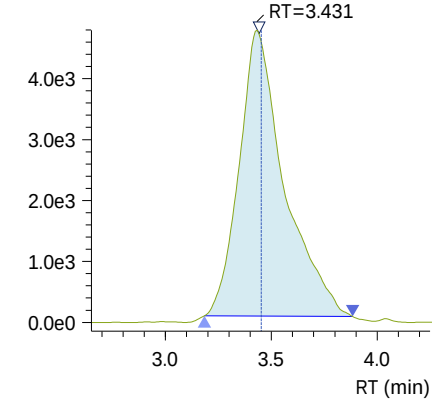
Perchlorate

Conc 10.7762
R#1 31.54 (35.24)

Q 99.00>83.00 (-) 1.40e4



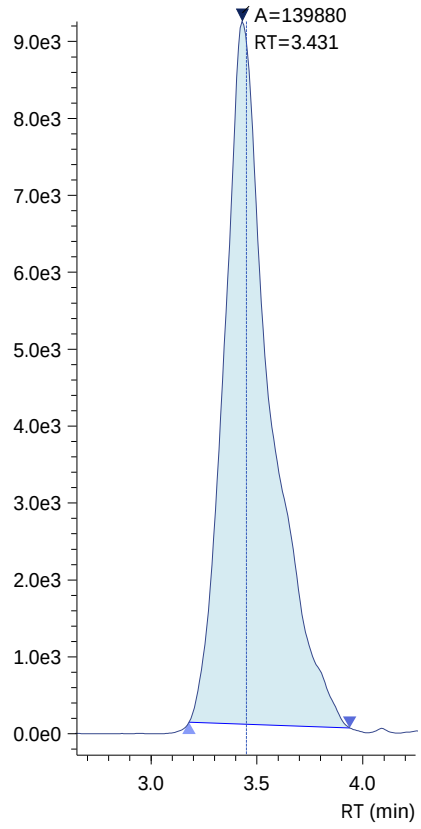
R1 101.00>85.00 (-) A=69418 4.79e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.26e3



Insight Report

Printed at 7/1/2024 8:12:47 AM

IB

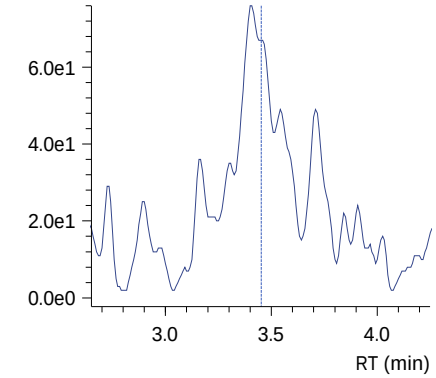
Sample ID: IB
Date Acquired: 6/28/2024 10:06:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	151257	----	ng/mL	101.00 >85.00	0.00	23.32 -41.05
Sodium Perchlorate-18O4_IS	M	3.430	151257	151257	1.0000	ng/mL	----	----	

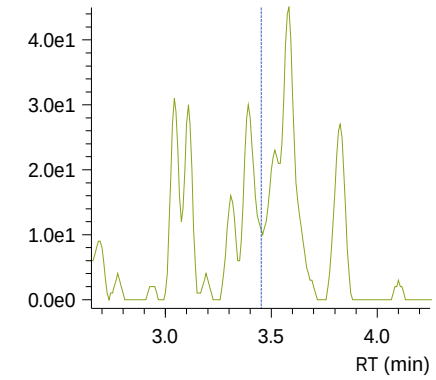
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.60e1



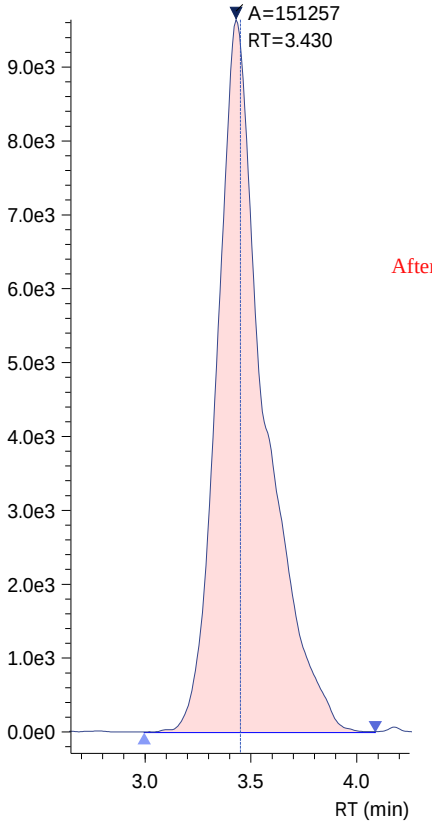
R1 101.00>85.00 (-) 4.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.64e3



After-BLC

Insight Report

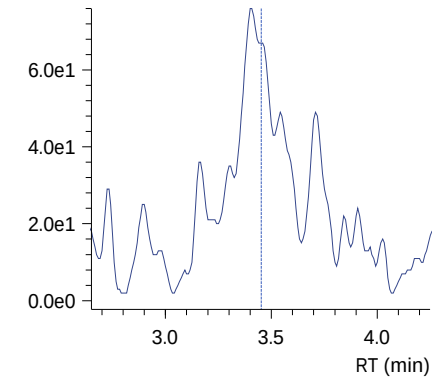
IB

Sample ID: IB
Date Acquired: 6/28/2024 10:06:00 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

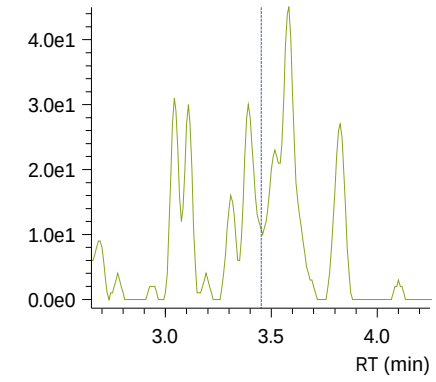
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 7.60e1



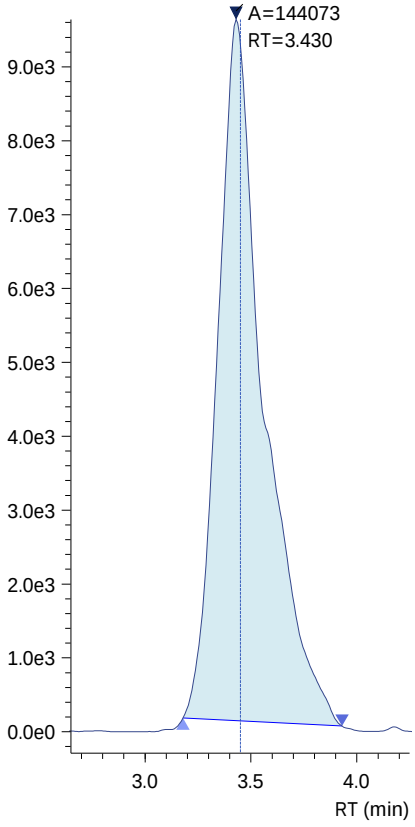
R1 101.00>85.00 (-) 4.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.64e3



Insight Report

Printed at 7/1/2024 8:12:47 AM

EQ2400363-01MB

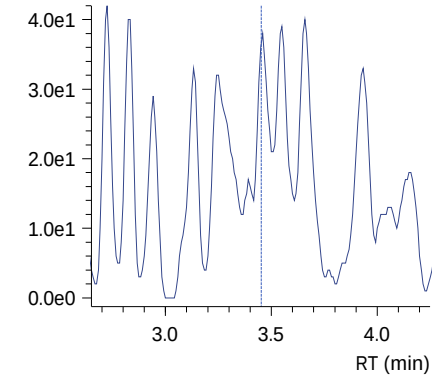
Sample ID: EQ2400363-01MB
Date Acquired: 6/28/2024 10:18:13 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-007.lcd
Vial: 37 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	146016	----	ng/mL	101.00 >85.00	0.00	23.32 -41.05
Sodium Perchlorate-18O4_IS	M	3.432	146016	146016	1.0000	ng/mL	----	----	

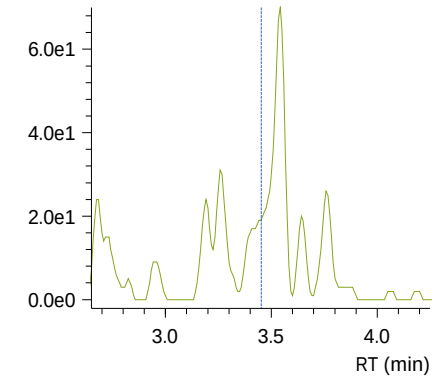
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 4.20e1



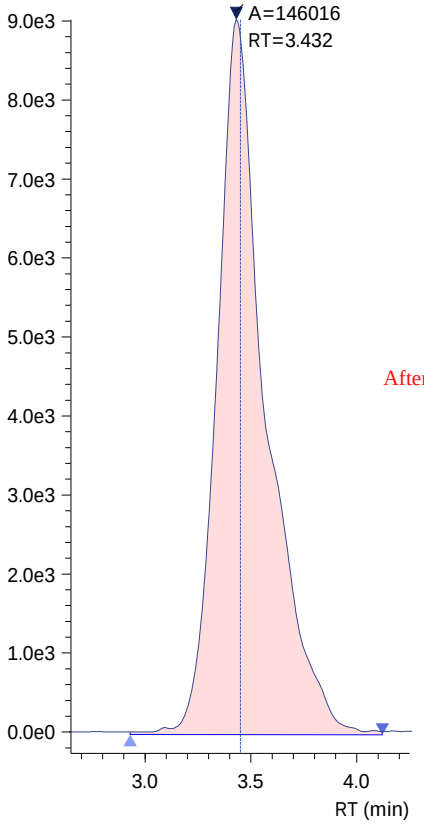
R1 101.00>85.00 (-) 7.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.02e3



After-BLC

Insight Report

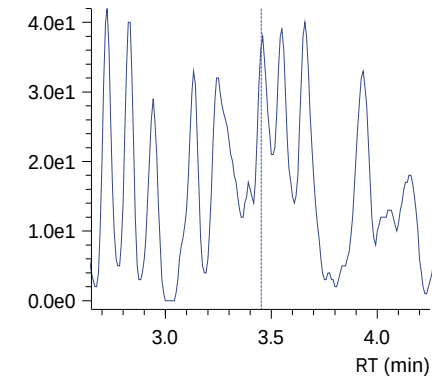
EQ2400363-01MB

Sample ID: EQ2400363-01MB
Date Acquired: 6/28/2024 10:18:13 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-007.lcd
Vial: 37 | Inj. Volume: 10.0000uL | Tray: 6

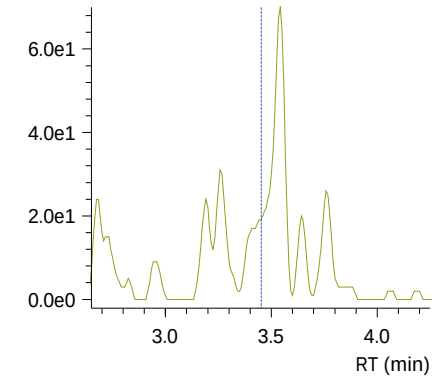
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 4.20e1



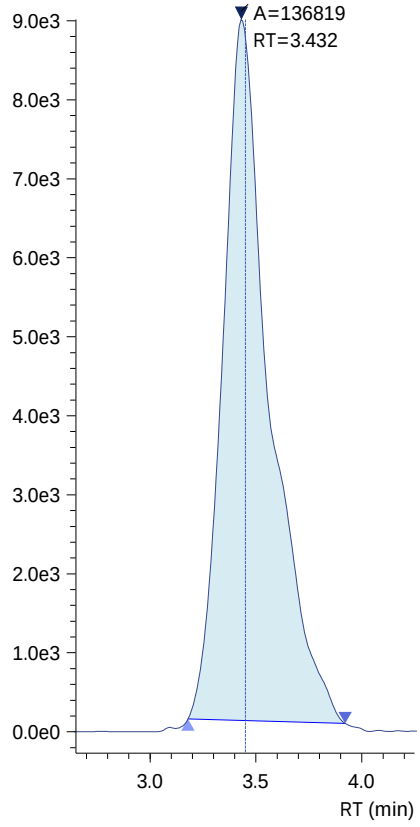
R1 101.00>85.00 (-) 7.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.02e3



Insight Report

Printed at 7/1/2024 8:12:47 AM

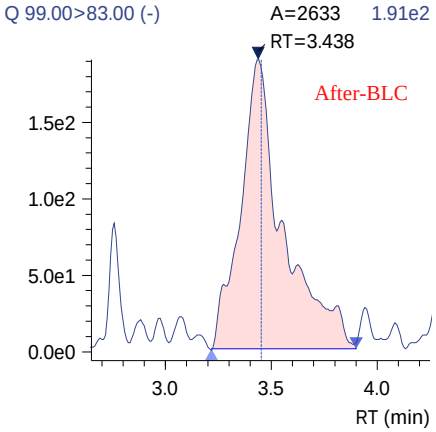
EQ2400363-02LCS

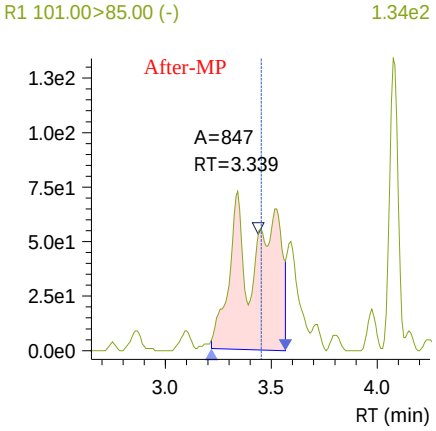
Sample ID: EQ2400363-02LCS
Date Acquired: 6/28/2024 10:23:47 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-008.lcd
Vial: 38 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.438	2633	152861	0.1180	ng/mL	101.00 >85.00	32.17	23.32 -41.05
Sodium Perchlorate-18O4_IS	M	3.428	1528 61	152861	1.0000	ng/mL	----	----	

Perchlorate

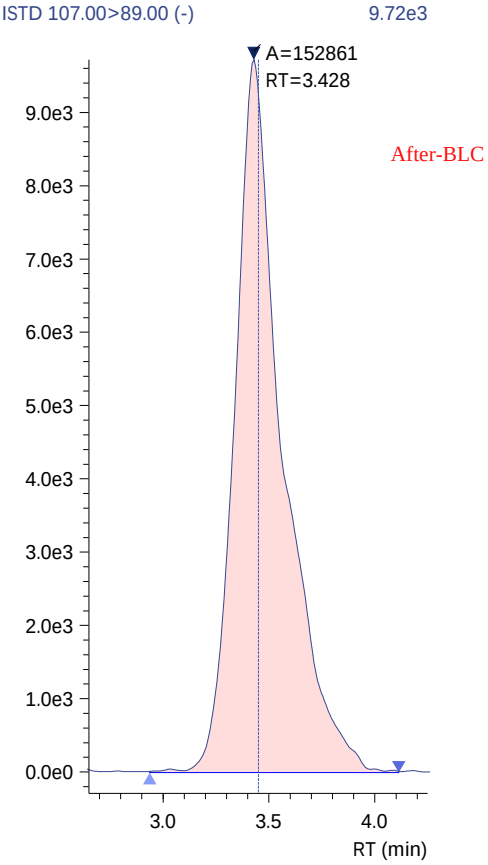
Conc 0.1180
R#1 32.17 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/1/2024 8:13:35 AM

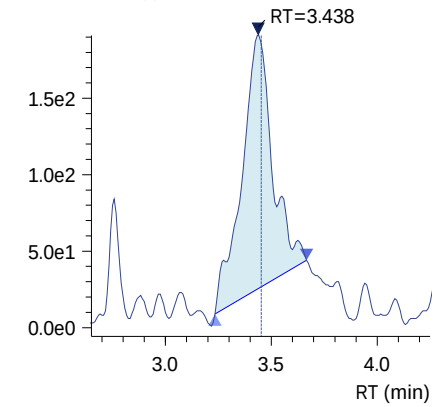
EQ2400363-02LCS

Sample ID: EQ2400363-02LCS
Date Acquired: 6/28/2024 10:23:47 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-008.lcd
Vial: 38 | Inj. Volume: 10.0000uL | Tray: 6

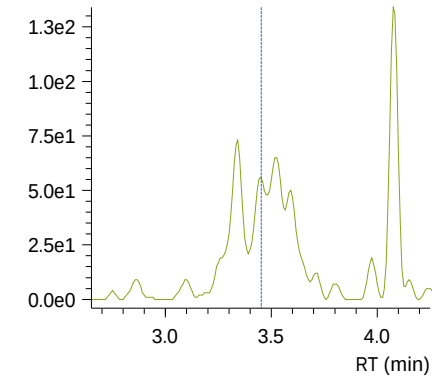
Perchlorate

Conc 0.0813
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1671 1.91e2



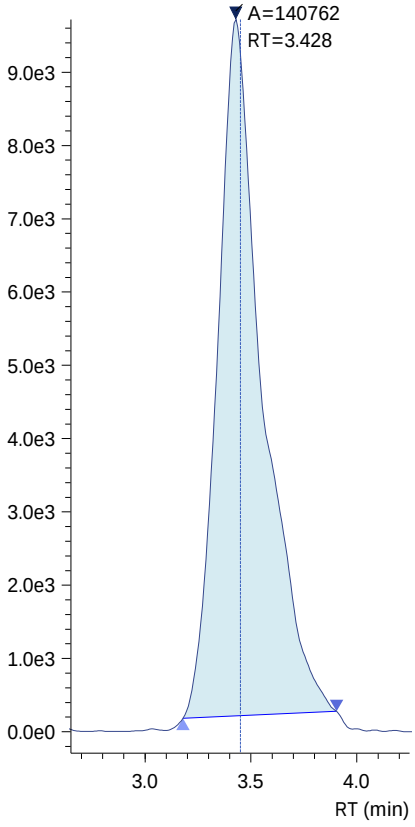
R1 101.00>85.00 (-) 1.34e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.72e3



Insight Report

Printed at 7/1/2024 8:12:47 AM

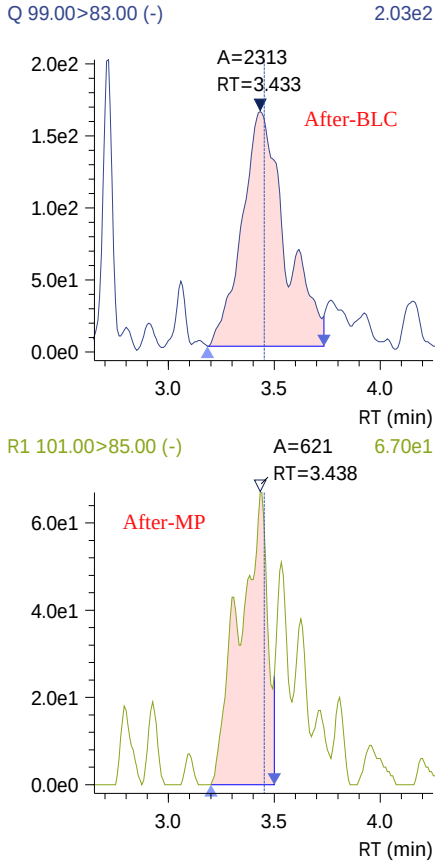
EQ2400363-03DLCS

Sample ID: EQ2400363-03DLCS
Date Acquired: 6/28/2024 10:29:16 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-009.lcd
Vial: 39 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.433	2313	151811	0.1043	ng/mL	101.00 >85.00	26.86	23.32 -41.05
Sodium Perchlorate-18O4 _IS	M	3.434	1518 11	151811	1.0000	ng/mL	----	----	

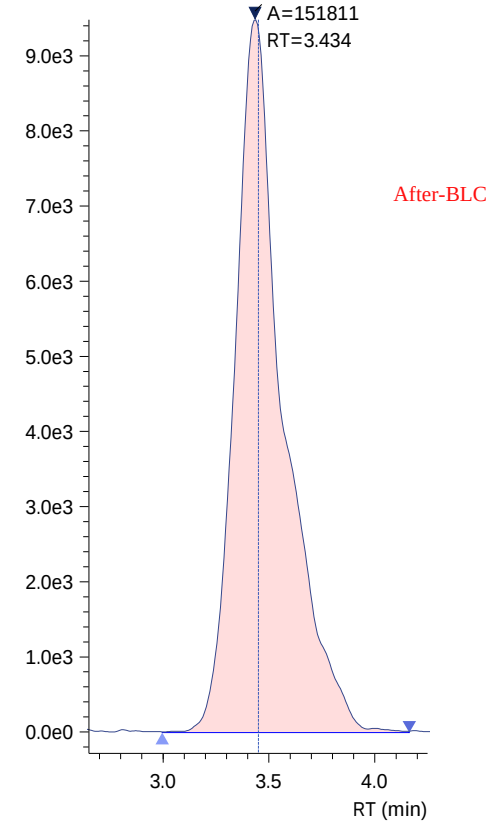
Perchlorate

Conc 0.1043
R#1 26.86 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/1/2024 8:13:35 AM

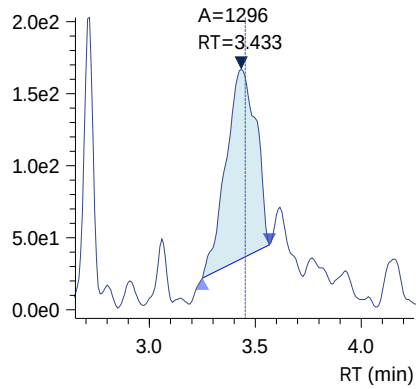
EQ2400363-03DLCS

Sample ID: EQ2400363-03DLCS
Date Acquired: 6/28/2024 10:29:16 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-009.lcd
Vial: 39 | Inj. Volume: 10.0000uL | Tray: 6

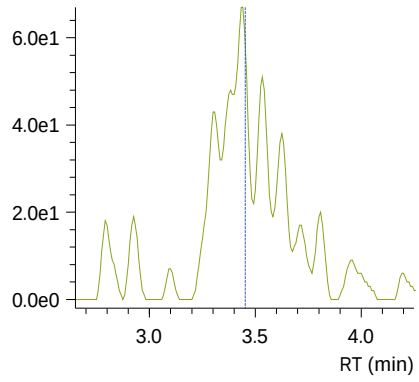
Perchlorate

Conc 0.0611
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 2.03e2



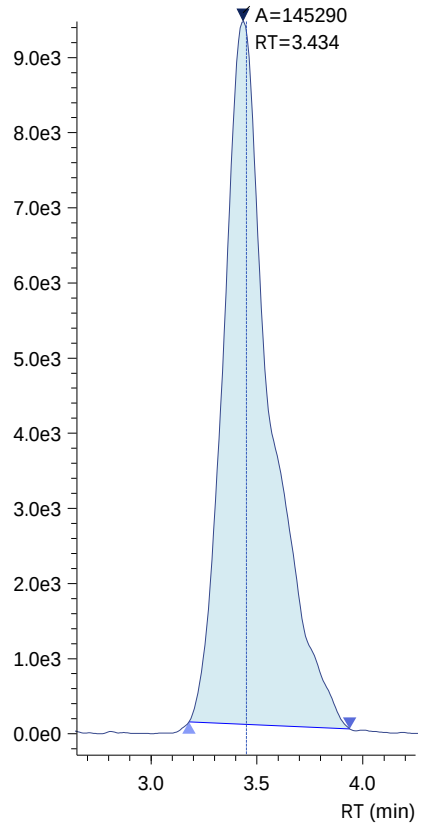
R1 101.00>85.00 (-) 6.70e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.48e3



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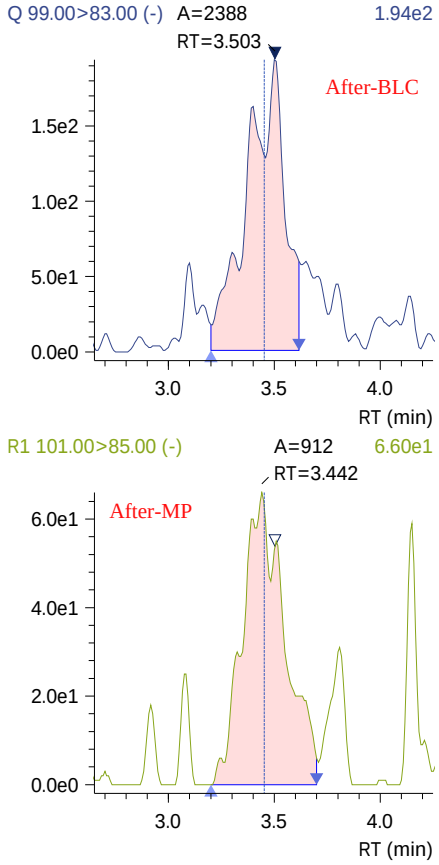
EQ2400363-04ICS

Sample ID: EQ2400363-04ICS
Date Acquired: 6/28/2024 10:34:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-010.lcd
Vial: 40 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.503	2388	155707	0.1050	ng/mL	101.00 >85.00	38.20	23.32 -41.05
Sodium Perchlorate-18O4 _IS	M	3.432	1557 07	155707	1.0000	ng/mL	----	----	

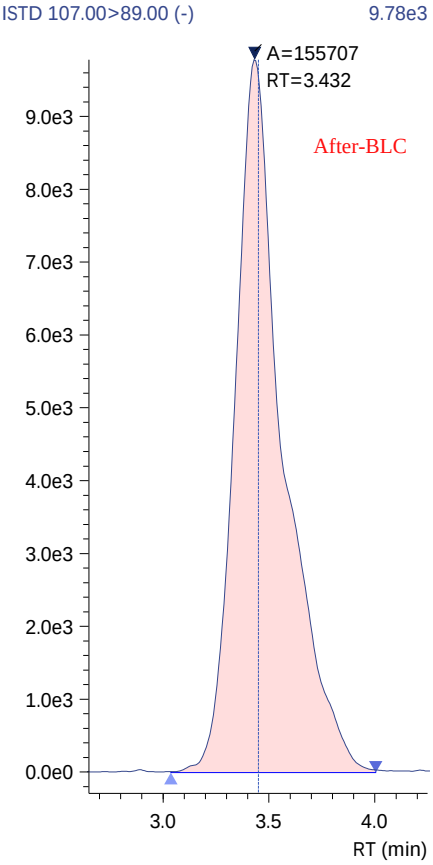
Perchlorate

Conc 0.1050
R#1 38.20 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/1/2024 8:13:35 AM

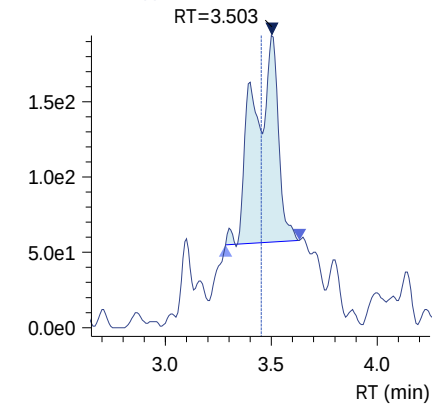
EQ2400363-04ICS

Sample ID: EQ2400363-04ICS
Date Acquired: 6/28/2024 10:34:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-010.lcd
Vial: 40 | Inj. Volume: 10.0000uL | Tray: 6

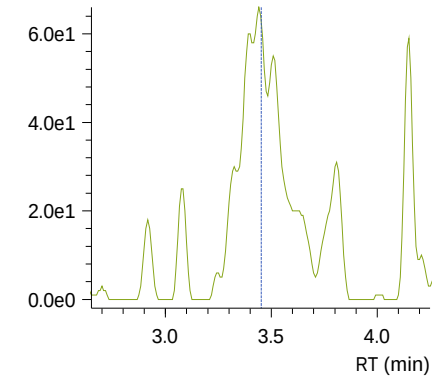
Perchlorate

Conc 0.0515
R#1 0.00 (35.24)

Q 99.00>83.00 (-) A=1108 1.94e2



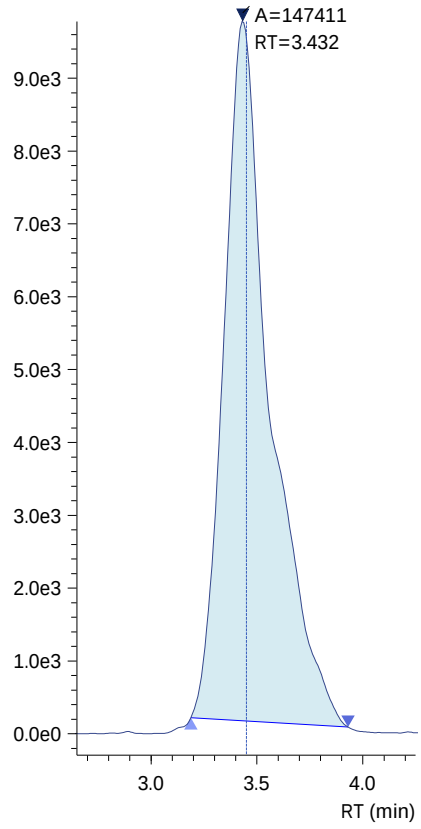
R1 101.00>85.00 (-) 6.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.78e3



Insight Report

Printed at 7/1/2024 8:12:47 AM

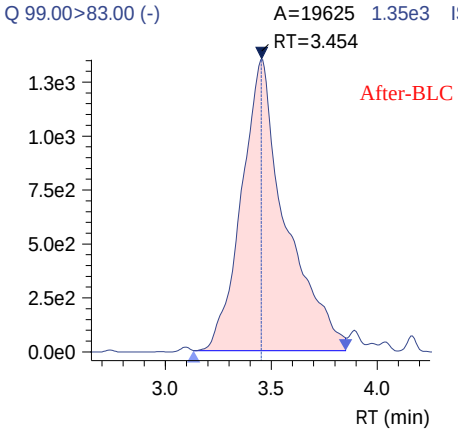
E2400757-001

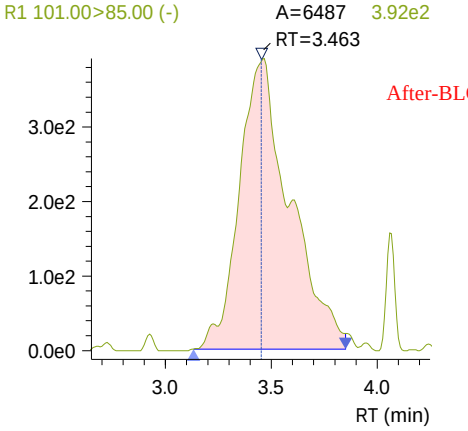
Sample ID: E2400757-001
Date Acquired: 6/28/2024 10:40:21 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-011.lcd
Vial: 41 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.454	19625	187219	0.7180	ng/mL	101.00 >85.00	33.06	23.32 -41.05
Sodium Perchlorate-18O4_IS	M	3.441	1872 19	187219	1.0000	ng/mL	----	----	

Perchlorate

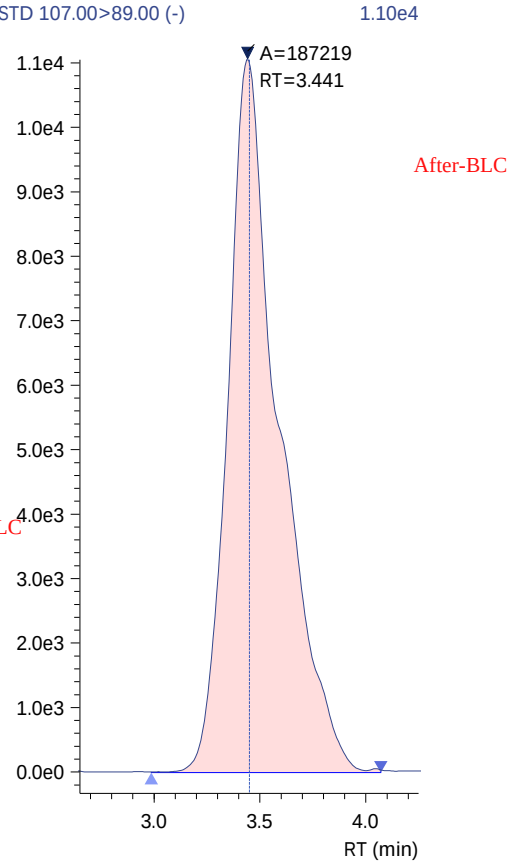
Conc 0.7180
R#1 33.06 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/1/2024 8:13:35 AM

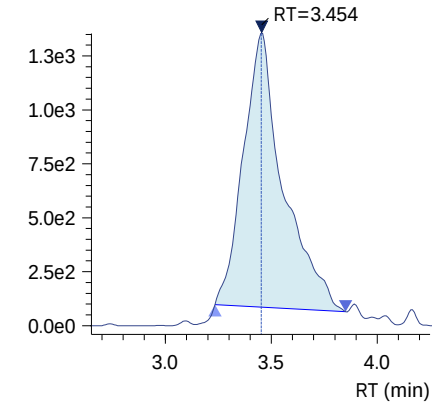
E2400757-001

Sample ID: E2400757-001
Date Acquired: 6/28/2024 10:40:21 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-011.lcd
Vial: 41 | Inj. Volume: 10.0000uL | Tray: 6

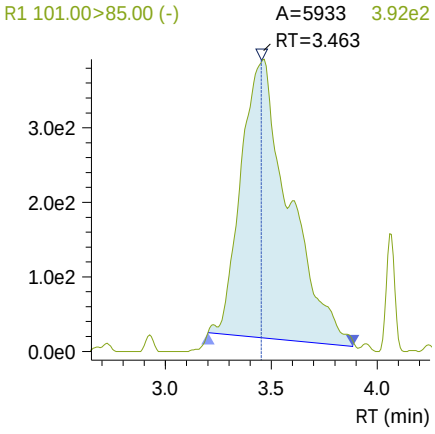
Perchlorate

Conc 0.6338
R#1 35.54 (35.24)

Q 99.00>83.00 (-) A=16691 1.35e3



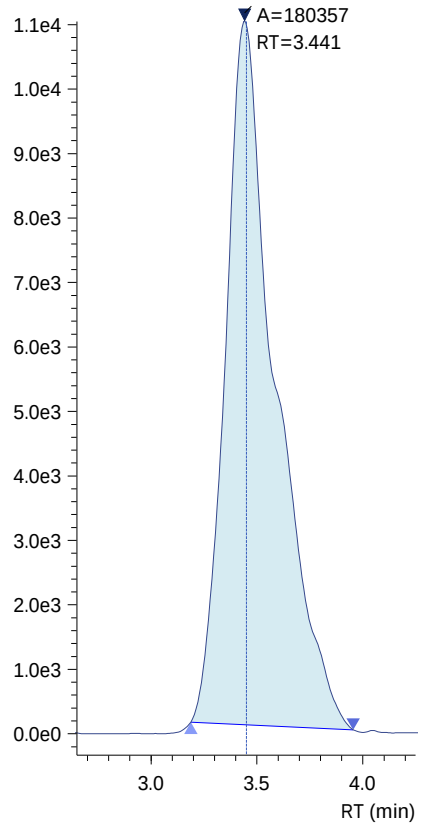
R1 101.00>85.00 (-) A=5933 3.92e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.10e4



Insight Report

Printed at 7/1/2024 8:12:47 AM

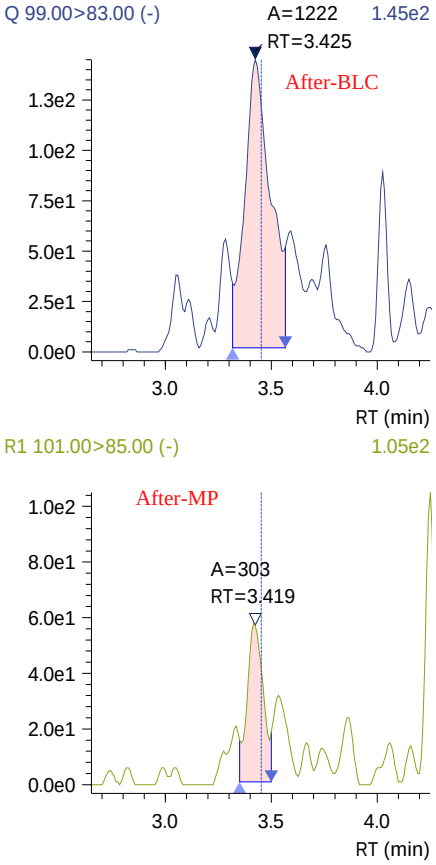
E2400757-002

Sample ID: E2400757-002
Date Acquired: 6/28/2024 10:45:51 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-012.lcd
Vial: 42 | Inj. Volume: 10.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.425	1222	188633	0.0444	ng/mL	101.00 >85.00	24.79	23.32 -41.05
Sodium Perchlorate-18O4_IS	M	3.439	188633	188633	1.0000	ng/mL	----	----	

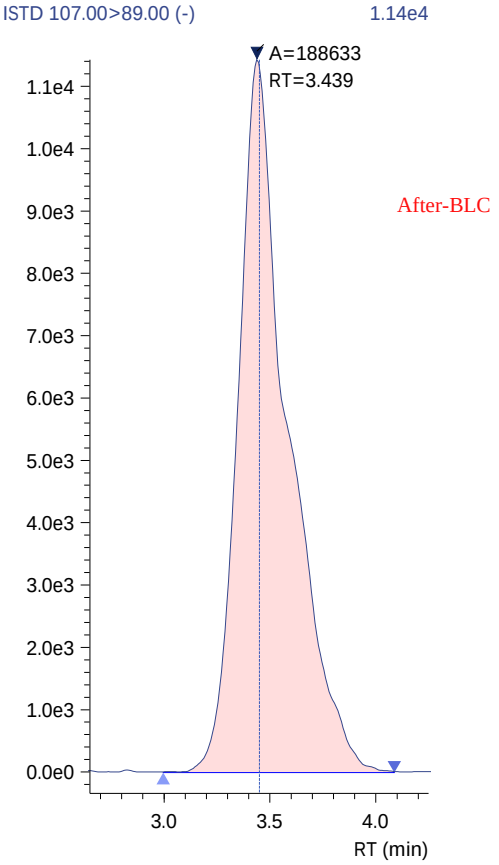
Perchlorate

Conc 0.0444
R#1 24.79 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

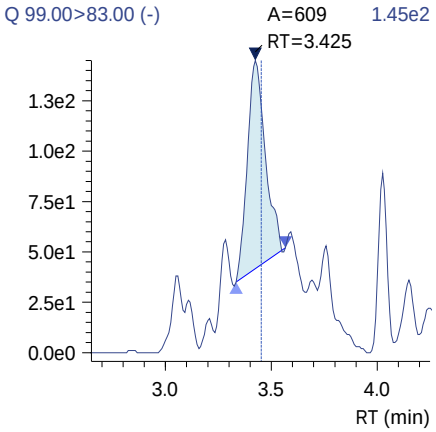
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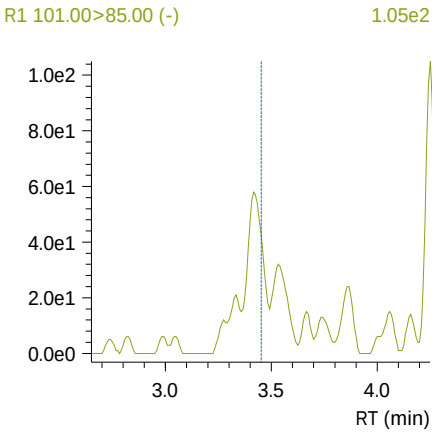
E2400757-002

Sample ID: E2400757-002
Date Acquired: 6/28/2024 10:45:51 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-012.lcd
Vial: 42 | Inj. Volume: 10.0000uL | Tray: 6

Perchlorate

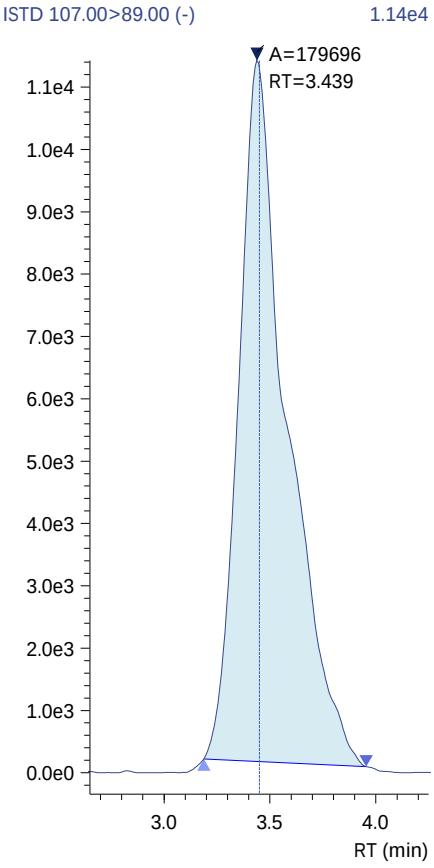
Conc 0.0232
R#1 0.00 (35.24)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/1/2024 8:12:47 AM

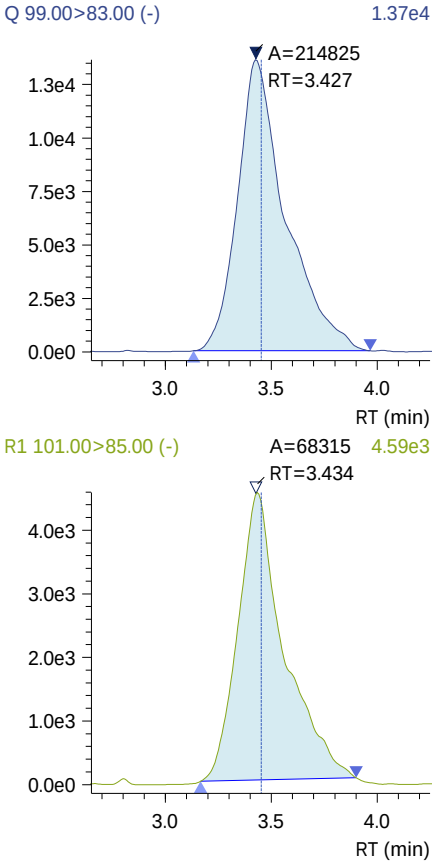
CCV

Sample ID: CCV
Date Acquired: 6/28/2024 11:13:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.427	2148 25	146892	10.0 166	ng/mL	101.00 >85.00	31.80	23.32 -41.05
Sodium Perchlorate-18O4_IS	M	3.426	1468 92	146892	1.0000	ng/mL	----	----	

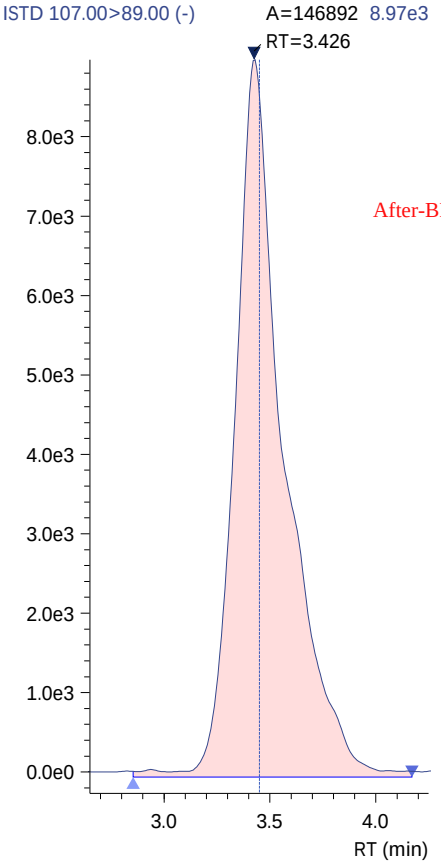
Perchlorate

Conc 10.0166
R#1 31.80 (35.24)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 7/1/2024 8:13:35 AM

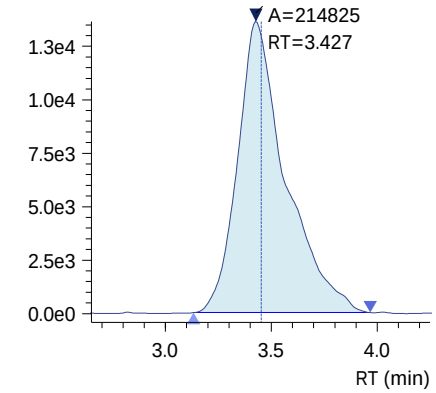
CCV

Sample ID: CCV
Date Acquired: 6/28/2024 11:13:34 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

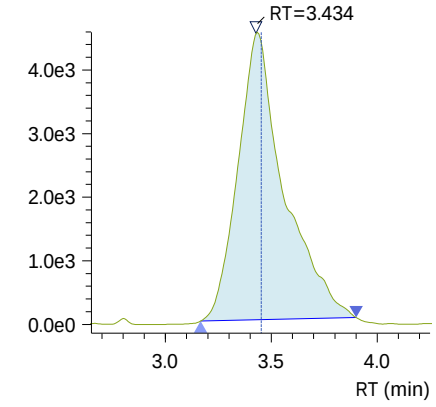
Perchlorate

Conc 10.9738
R#1 31.80 (35.24)

Q 99.00>83.00 (-) 1.37e4



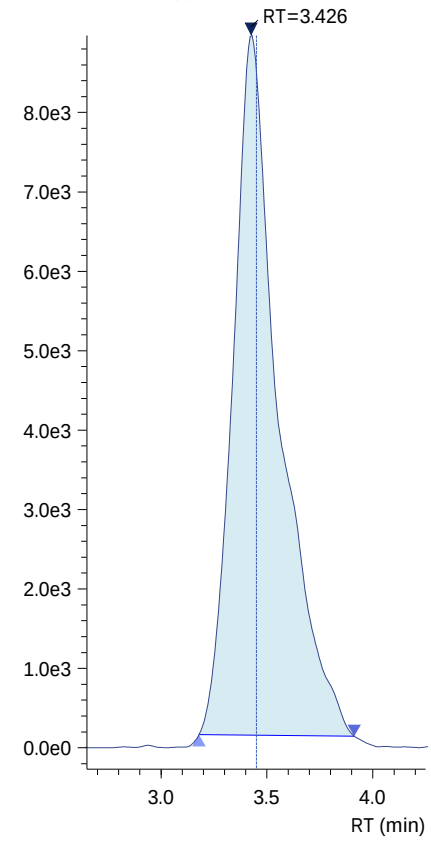
R1 101.00>85.00 (-) A=68315 4.59e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=134078 8.97e3



Insight Report

Printed at 7/1/2024 8:12:47 AM

IB

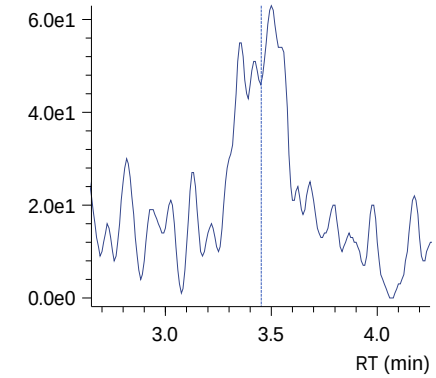
Sample ID: IB
Date Acquired: 6/28/2024 11:19:04 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240628\20240628-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	147948	----	ng/mL	101.00 >85.00	0.00	23.32 -41.05
Sodium Perchlorate-18O4_IS	M	3.431	147948	147948	1.0000	ng/mL	----	----	

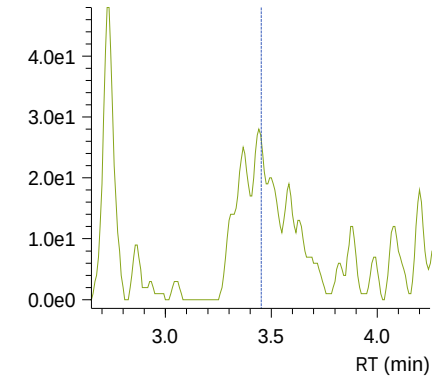
Perchlorate

Conc ----
R#1 0.00 (35.24)

Q 99.00>83.00 (-) 6.30e1



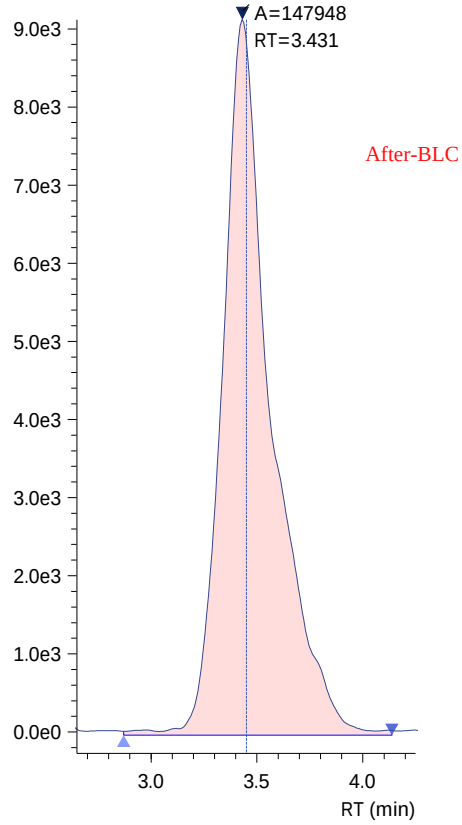
R1 101.00>85.00 (-) 4.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 9.12e3



After-BLC

WorkOrder: HS24061581

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HS24061581 Groundwater Treatment Plant BiWeekly Samples COVER PAGE REV01

ALS WO# HS24061581

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WorkOrder: HS24061581

Groundwater Treatment Plant Bi-Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

06-Aug-2024

HS24061581 Groundwater Treatment Plant BiWeekly Samples Final REV01

ALS WO# HS24061581

10450 Stancliff Rd. Suite 210
Houston, TX 77099
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July 30, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24061581**

Laboratory Results for: **Groundwater Treatment Plant Bi-Weekly Samples**

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on Jun 26, 2024 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
Work Order: HS24061581

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24061581-01	LH18/24-SP650_062524	Water		25-Jun-2024 13:00	26-Jun-2024 10:00	☐
HS24061581-02	Trip Blank	Water	CG-052424-404	25-Jun-2024 13:00	26-Jun-2024 10:00	☐

Revision:1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Groundwater Treatment Plant Bi-Weekly Samples
Work Order: HS24061581

Work Order Comments

• This report was revised 07/30/24 to correct the LOD/LOQ for Method 8260 compounds. (Hexachlorobutadiene)

GCMS Volatiles by Method SW8260

Batch ID: R471539

Sample ID: LH18/24-SP650_062524 (HS24061581-01)

• Surrogate failed QC control limits high. Sample is ND.

Sample ID: Trip Blank (HS24061581-02)

• Surrogate failed QC control limits high. Sample is ND.

Sample ID: HS24061703-05MS

• MS and MSD are for an unrelated sample

Sample ID: VSTD050

• Bromomethane failed outside QC control limits high. Samples are ND.

WetChemistry by Method SW9056

Batch ID: R471237

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

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ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24061581
Sample ID: LH18/24-SP650_062524 Lab ID:HS24061581-01
Collection Date: 25-Jun-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 11:30
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	05-Jul-2024 11:30
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 11:30
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 11:30
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 11:30
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 11:30
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 11:30
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	05-Jul-2024 11:30
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	05-Jul-2024 11:30
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 11:30
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	05-Jul-2024 11:30
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	05-Jul-2024 11:30
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	05-Jul-2024 11:30
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 11:30
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24061581
Sample ID: LH18/24-SP650_062524 Lab ID:HS24061581-01
Collection Date: 25-Jun-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
cis-1,2-Dichloroethene	**2.4**		**0.20**	**0.50**	**1.0**	**ug/L**	1	05-Jul-2024 11:30
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Hexachlorobutadiene	2.0	U	1.0	2.0	2.0	ug/L	1	05-Jul-2024 11:30
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	05-Jul-2024 11:30
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	05-Jul-2024 11:30
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	05-Jul-2024 11:30
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 11:30
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*1*	*05-Jul-2024 11:30*
Surr: 4-Bromofluorobenzene	*114*			**0**	*85-114*	*%REC*	*1*	*05-Jul-2024 11:30*
Surr: Dibromofluoromethane	*115*			**0**	*80-119*	*%REC*	*1*	*05-Jul-2024 11:30*
Surr: Toluene-d8	*117*	*S*		**0**	*89-112*	*%REC*	*1*	*05-Jul-2024 11:30*
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**776**		**2.00**	**2.50**	**5.00**	**mg/L**	10	03-Jul-2024 15:44
Sulfate	**24.4**		**0.200**	**0.250**	**0.500**	**mg/L**	1	03-Jul-2024 15:38

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

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ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24061581
Sample ID: Trip Blank Lab ID:HS24061581-02
Collection Date: 25-Jun-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 14:03
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	05-Jul-2024 14:03
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 14:03
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 14:03
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 14:03
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 14:03
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 14:03
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	05-Jul-2024 14:03
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
2-Hexanone	2.0	U	1.0	2.0	2.0	ug/L	1	05-Jul-2024 14:03
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 14:03
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	05-Jul-2024 14:03
Acetone	0.50	U	0.40	0.50	2.0	ug/L	1	05-Jul-2024 14:03
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Carbon disulfide	2.0	U	0.60	2.0	2.0	ug/L	1	05-Jul-2024 14:03
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	05-Jul-2024 14:03
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Groundwater Treatment Plant Bi-Weekly Samples WorkOrder:HS24061581
Sample ID: Trip Blank Lab ID:HS24061581-02
Collection Date: 25-Jun-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Hexachlorobutadiene	2.0	U	1.0	2.0	2.0	ug/L	1	05-Jul-2024 14:03
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	05-Jul-2024 14:03
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	05-Jul-2024 14:03
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	05-Jul-2024 14:03
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	05-Jul-2024 14:03
Surr: 1,2-Dichloroethane-d4	*115*			**0**	*81-118*	*%REC*	*1*	*05-Jul-2024 14:03*
Surr: 4-Bromofluorobenzene	*113*			**0**	*85-114*	*%REC*	*1*	*05-Jul-2024 14:03*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*1*	*05-Jul-2024 14:03*
Surr: Toluene-d8	*116*	*S*		**0**	*89-112*	*%REC*	*1*	*05-Jul-2024 14:03*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24061581

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R471237 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS24061581-01	LH18/24-SP650_062524	25 Jun 2024 13:00			03 Jul 2024 15:44	10
HS24061581-01	LH18/24-SP650_062524	25 Jun 2024 13:00			03 Jul 2024 15:38	1
Batch ID: R471539 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24061581-01	LH18/24-SP650_062524	25 Jun 2024 13:00			05 Jul 2024 11:30	1
HS24061581-02	Trip Blank	25 Jun 2024 13:00			05 Jul 2024 14:03	1

Revision: 1

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ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24061581

QC BATCH REPORT

Batch ID: R471539 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240705** Units: **ug/L** Analysis Date: **05-Jul-2024 11:02**
Client ID: Run ID: **VOA9_471539** SeqNo: **8129811** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.50	1.0								U
1,1,1-Trichloroethane	0.50	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	0.50	1.0								U
1,1-Dichloroethane	0.50	1.0								U
1,1-Dichloroethene	0.50	1.0								U
1,1-Dichloropropene	0.50	1.0								U
1,2,3-Trichlorobenzene	1.0	1.0								U
1,2,3-Trichloropropane	1.0	1.0								U
1,2,4-Trichlorobenzene	1.0	1.0								U
1,2,4-Trimethylbenzene	0.50	1.0								U
1,2-Dibromo-3-chloropropane	0.50	1.0								U
1,2-Dibromoethane	0.50	1.0								U
1,2-Dichlorobenzene	1.0	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	1.0	1.0								U
1,3,5-Trimethylbenzene	0.50	1.0								U
1,3-Dichlorobenzene	0.50	1.0								U
1,3-Dichloropropane	0.50	1.0								U
1,4-Dichlorobenzene	0.50	1.0								U
2,2-Dichloropropane	0.50	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	2.0	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	0.50	2.0								U
Benzene	0.50	1.0								U
Bromobenzene	0.50	1.0								U
Bromochloromethane	0.50	1.0								U
Bromodichloromethane	0.50	1.0								U
Bromoform	0.50	1.0								U
Bromomethane	0.50	1.0								U

Revision: 1

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ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24061581

QC BATCH REPORT

Batch ID: R471539 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240705** Units: **ug/L** Analysis Date: **05-Jul-2024 11:02**
Client ID: Run ID: **VOA9_471539** SeqNo: **8129811** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	2.0	2.0								U
Carbon tetrachloride	1.0	1.0								U
Chlorobenzene	0.50	1.0								U
Chloroethane	0.50	1.0								U
Chloroform	0.50	1.0								U
Chloromethane	0.50	1.0								U
cis-1,2-Dichloroethene	0.50	1.0								U
cis-1,3-Dichloropropene	0.50	1.0								U
Dibromochloromethane	0.50	1.0								U
Dibromomethane	0.50	1.0								U
Dichlorodifluoromethane	0.50	1.0								U
Ethylbenzene	0.50	1.0								U
Hexachlorobutadiene	2.0	2.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	1.0	2.0								U
Naphthalene	0.50	1.0								U
n-Butylbenzene	1.0	1.0								U
n-Propylbenzene	0.50	1.0								U
o-Xylene	0.50	1.0								U
sec-Butylbenzene	0.50	1.0								U
Styrene	0.50	1.0								U
tert-Butylbenzene	0.50	1.0								U
Tetrachloroethene	0.50	1.0								U
Toluene	0.50	1.0								U
trans-1,2-Dichloroethene	0.50	1.0								U
trans-1,3-Dichloropropene	0.50	1.0								U
Trichloroethene	0.50	1.0								U
Trichlorofluoromethane	0.50	1.0								U
Vinyl chloride	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*57.83*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*55.59*	*35*	*50*	*0*	*111*	*85 - 114*				
Surr: Dibromofluoromethane	*57.64*	*35*	*50*	*0*	*115*	*80 - 119*				
Surr: Toluene-d8	*55.96*	*35*	*50*	*0*	*112*	*89 - 112*				

Revision: 1

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ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24061581

QC BATCH REPORT

Batch ID: R471539 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240705** Units: **ug/L** Analysis Date: **05-Jul-2024 10:19**
Client ID: Run ID: **VOA9_471539** SeqNo: **8129889** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.36	1.0	20	0	96.8	78 - 124				
1,1,1-Trichloroethane	18.99	1.0	20	0	95.0	74 - 131				
1,1,2,2-Tetrachloroethane	18.97	1.0	20	0	94.8	71 - 121				
1,1,2-Trichloroethane	20.05	1.0	20	0	100	80 - 119				
1,1-Dichloroethane	17.75	1.0	20	0	88.8	77 - 125				
1,1-Dichloroethene	19.46	1.0	20	0	97.3	71 - 131				
1,1-Dichloropropene	20.13	1.0	20	0	101	78 - 125				
1,2,3-Trichlorobenzene	20.81	1.0	20	0	104	69 - 129				
1,2,3-Trichloropropane	18.17	1.0	20	0	90.9	73 - 122				
1,2,4-Trichlorobenzene	20.23	1.0	20	0	101	69 - 130				
1,2,4-Trimethylbenzene	18.6	1.0	20	0	93.0	76 - 124				
1,2-Dibromo-3-chloropropane	20.25	1.0	20	0	101	62 - 128				
1,2-Dibromoethane	20.63	1.0	20	0	103	77 - 121				
1,2-Dichlorobenzene	18.63	1.0	20	0	93.2	80 - 119				
1,2-Dichloroethane	18.54	1.0	20	0	92.7	73 - 128				
1,2-Dichloropropane	18.66	1.0	20	0	93.3	78 - 122				
1,3,5-Trimethylbenzene	18.84	1.0	20	0	94.2	75 - 124				
1,3-Dichlorobenzene	18.63	1.0	20	0	93.2	80 - 119				
1,3-Dichloropropane	19.38	1.0	20	0	96.9	80 - 119				
1,4-Dichlorobenzene	18.63	1.0	20	0	93.2	79 - 118				
2,2-Dichloropropane	19.66	1.0	20	0	98.3	60 - 139				
2-Butanone	35.89	2.0	40	0	89.7	56 - 143				
2-Chlorotoluene	20.09	1.0	20	0	100	79 - 122				
2-Hexanone	39.85	2.0	40	0	99.6	57 - 139				
4-Chlorotoluene	20.22	1.0	20	0	101	78 - 122				
4-Isopropyltoluene	19.15	1.0	20	0	95.7	77 - 127				
4-Methyl-2-pentanone	37.09	2.0	40	0	92.7	67 - 130				
Acetone	35.83	2.0	40	0	89.6	39 - 160				
Benzene	18.34	1.0	20	0	91.7	79 - 120				
Bromobenzene	19.92	1.0	20	0	99.6	80 - 120				
Bromochloromethane	19.78	1.0	20	0	98.9	78 - 123				
Bromodichloromethane	19.19	1.0	20	0	96.0	79 - 125				
Bromoform	18.74	1.0	20	0	93.7	66 - 130				
Bromomethane	27.97	1.0	20	0	140	53 - 141				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24061581

QC BATCH REPORT

Batch ID: R471539 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240705** Units: **ug/L** Analysis Date: **05-Jul-2024 10:19**
Client ID: Run ID: **VOA9_471539** SeqNo: **8129889** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	37.99	2.0	40	0	95.0	64 - 133				
Carbon tetrachloride	18.78	1.0	20	0	93.9	72 - 136				
Chlorobenzene	19.48	1.0	20	0	97.4	82 - 118				
Chloroethane	16.7	1.0	20	0	83.5	60 - 138				
Chloroform	18.87	1.0	20	0	94.4	79 - 124				
Chloromethane	15.59	1.0	20	0	78.0	50 - 139				
cis-1,2-Dichloroethene	19.34	1.0	20	0	96.7	78 - 123				
cis-1,3-Dichloropropene	18.54	1.0	20	0	92.7	75 - 124				
Dibromochloromethane	20.34	1.0	20	0	102	74 - 126				
Dibromomethane	19.25	1.0	20	0	96.2	79 - 123				
Dichlorodifluoromethane	18	1.0	20	0	90.0	32 - 152				
Ethylbenzene	20.39	1.0	20	0	102	79 - 121				
Hexachlorobutadiene	19.73	2.0	20	0	98.6	66 - 134				
Isopropylbenzene	19.58	1.0	20	0	97.9	72 - 131				
m,p-Xylene	39.08	2.0	40	0	97.7	80 - 121				
Methylene chloride	16.03	2.0	20	0	80.1	74 - 124				
Naphthalene	18.66	1.0	20	0	93.3	61 - 128				
n-Butylbenzene	19.45	1.0	20	0	97.2	75 - 128				
n-Propylbenzene	19.6	1.0	20	0	98.0	76 - 126				
o-Xylene	19.06	1.0	20	0	95.3	78 - 122				
sec-Butylbenzene	18.85	1.0	20	0	94.3	77 - 126				
Styrene	19.34	1.0	20	0	96.7	78 - 123				
tert-Butylbenzene	18.99	1.0	20	0	94.9	78 - 124				
Tetrachloroethene	20.38	1.0	20	0	102	74 - 129				
Toluene	20.46	1.0	20	0	102	80 - 121				
trans-1,2-Dichloroethene	18.64	1.0	20	0	93.2	75 - 124				
trans-1,3-Dichloropropene	18.77	1.0	20	0	93.9	73 - 127				
Trichloroethene	20.1	1.0	20	0	100	79 - 123				
Trichlorofluoromethane	21.17	1.0	20	0	106	65 - 141				
Vinyl chloride	18.74	1.0	20	0	93.7	58 - 137				
Surr: 1,2-Dichloroethane-d4	*54.02*	*35*	*50*	*0*	*108*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*56.98*	*35*	*50*	*0*	*114*	*85 - 114*				
Surr: Dibromofluoromethane	*55.35*	*35*	*50*	*0*	*111*	*80 - 119*				
Surr: Toluene-d8	*55.96*	*35*	*50*	*0*	*112*	*89 - 112*				

Revision: 1

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ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24061581

QC BATCH REPORT

Batch ID: R471539 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24061703-05MS** Units: **ug/L** Analysis Date: **05-Jul-2024 18:42**
Client ID: Run ID: **VOA9_471539** SeqNo: **8129828** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	14.97	1.0	20	0	74.9	78 - 124				S
1,1,1-Trichloroethane	14.7	1.0	20	0	73.5	74 - 131				S
1,1,2,2-Tetrachloroethane	16.7	1.0	20	0	83.5	71 - 121				
1,1,2-Trichloroethane	16.16	1.0	20	0	80.8	80 - 119				
1,1-Dichloroethane	13.41	1.0	20	0	67.0	77 - 125				S
1,1-Dichloroethene	14.83	1.0	20	0	74.1	71 - 131				
1,1-Dichloropropene	14.58	1.0	20	0	72.9	78 - 125				S
1,2,3-Trichlorobenzene	14.28	1.0	20	0	71.4	69 - 129				
1,2,3-Trichloropropane	15.75	1.0	20	0	78.7	73 - 122				
1,2,4-Trichlorobenzene	13.04	1.0	20	0	65.2	69 - 130				S
1,2,4-Trimethylbenzene	12.25	1.0	20	0	61.2	76 - 124				S
1,2-Dibromo-3-chloropropane	16.66	1.0	20	0	83.3	62 - 128				
1,2-Dibromoethane	16.79	1.0	20	0	83.9	77 - 121				
1,2-Dichlorobenzene	13.26	1.0	20	0	66.3	80 - 119				S
1,2-Dichloroethane	14.68	1.0	20	0	73.4	73 - 128				
1,2-Dichloropropane	13.97	1.0	20	0	69.8	78 - 122				S
1,3,5-Trimethylbenzene	11.19	1.0	20	0	56.0	75 - 124				S
1,3-Dichlorobenzene	13.26	1.0	20	0	66.3	80 - 119				S
1,3-Dichloropropane	15.55	1.0	20	0	77.7	80 - 119				S
1,4-Dichlorobenzene	13.26	1.0	20	0	66.3	79 - 118				S
2,2-Dichloropropane	13.7	1.0	20	0	68.5	60 - 139				
2-Butanone	32.38	2.0	40	0	80.9	56 - 143				
2-Chlorotoluene	14.46	1.0	20	0	72.3	79 - 122				S
2-Hexanone	46.02	2.0	40	0	115	57 - 139				
4-Chlorotoluene	13.82	1.0	20	0	69.1	78 - 122				S
4-Isopropyltoluene	13.08	1.0	20	0	65.4	77 - 127				S
4-Methyl-2-pentanone	36.29	2.0	40	0	90.7	67 - 130				
Acetone	27.24	2.0	40	0	68.1	39 - 160				
Benzene	13.61	1.0	20	0	68.1	79 - 120				S
Bromobenzene	14.8	1.0	20	0	74.0	80 - 120				S
Bromochloromethane	15.76	1.0	20	0	78.8	78 - 123				
Bromodichloromethane	14.54	1.0	20	0	72.7	79 - 125				S
Bromoform	15.41	1.0	20	0	77.1	66 - 130				
Bromomethane	21.34	1.0	20	0	107	53 - 141				

Revision: 1

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ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24061581

QC BATCH REPORT

Batch ID: R471539 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24061703-05MS** Units: **ug/L** Analysis Date: **05-Jul-2024 18:42**
Client ID: Run ID: **VOA9_471539** SeqNo: **8129828** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	27.34	2.0	40	0	68.3	64 - 133			
Carbon tetrachloride	14.45	1.0	20	0	72.2	72 - 136			
Chlorobenzene	14.68	1.0	20	0	73.4	82 - 118			S
Chloroethane	13.25	1.0	20	0	66.3	60 - 138			
Chloroform	14.49	1.0	20	0	72.4	79 - 124			S
Chloromethane	12.43	1.0	20	0	62.1	50 - 139			
cis-1,2-Dichloroethene	14.41	1.0	20	0	72.1	78 - 123			S
cis-1,3-Dichloropropene	13.63	1.0	20	0	68.1	75 - 124			S
Dibromochloromethane	14.91	1.0	20	0	74.5	74 - 126			
Dibromomethane	15.39	1.0	20	0	76.9	79 - 123			S
Dichlorodifluoromethane	12.83	1.0	20	0	64.2	32 - 152			
Ethylbenzene	14.84	1.0	20	0	74.2	79 - 121			S
Hexachlorobutadiene	13.75	2.0	20	0	68.8	66 - 134			
Isopropylbenzene	13.71	1.0	20	0	68.6	72 - 131			S
m,p-Xylene	27.53	2.0	40	0	68.8	80 - 121			S
Methylene chloride	9.765	2.0	20	0	48.8	74 - 124			S
Naphthalene	13.86	1.0	20	0	69.3	61 - 128			
n-Butylbenzene	12.91	1.0	20	0	64.6	75 - 128			S
n-Propylbenzene	13.58	1.0	20	0	67.9	76 - 126			S
o-Xylene	13.91	1.0	20	0	69.6	78 - 122			S
sec-Butylbenzene	13.13	1.0	20	0	65.7	77 - 126			S
Styrene	13.59	1.0	20	0	68.0	78 - 123			S
tert-Butylbenzene	13.57	1.0	20	0	67.8	78 - 124			S
Tetrachloroethene	15.24	1.0	20	0	76.2	74 - 129			
Toluene	15.39	1.0	20	0	76.9	80 - 121			S
trans-1,2-Dichloroethene	14.59	1.0	20	0	72.9	75 - 124			S
trans-1,3-Dichloropropene	14.06	1.0	20	0	70.3	73 - 127			S
Trichloroethene	15.3	1.0	20	0	76.5	79 - 123			S
Trichlorofluoromethane	16.31	1.0	20	0	81.6	65 - 141			
Vinyl chloride	14.45	1.0	20	0	72.3	58 - 137			
Surr: 1,2-Dichloroethane-d4	*55.32*	*1.0*	*50*	*0*	*111*	*81 - 118*			
Surr: 4-Bromofluorobenzene	*60.41*	*1.0*	*50*	*0*	*121*	*85 - 114*			S
Surr: Dibromofluoromethane	*55.33*	*1.0*	*50*	*0*	*111*	*80 - 119*			
Surr: Toluene-d8	*58.54*	*1.0*	*50*	*0*	*117*	*89 - 112*			S

Revision: 1

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ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24061581

QC BATCH REPORT

Batch ID: R471539 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24061703-05MSD** Units: **ug/L** Analysis Date: **05-Jul-2024 19:03**
Client ID: Run ID: **VOA9_471539** SeqNo: **8129829** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	14.33	1.0	20	0	71.7	78 - 124	14.97	4.37	20	S
1,1,1-Trichloroethane	14.1	1.0	20	0	70.5	74 - 131	14.7	4.2	20	S
1,1,2,2-Tetrachloroethane	16.13	1.0	20	0	80.7	71 - 121	16.7	3.45	20	
1,1,2-Trichloroethane	15.83	1.0	20	0	79.1	80 - 119	16.16	2.1	20	S
1,1-Dichloroethane	12.77	1.0	20	0	63.8	77 - 125	13.41	4.91	20	S
1,1-Dichloroethene	14.03	1.0	20	0	70.2	71 - 131	14.83	5.53	20	S
1,1-Dichloropropene	14.04	1.0	20	0	70.2	78 - 125	14.58	3.76	20	S
1,2,3-Trichlorobenzene	14.4	1.0	20	0	72.0	69 - 129	14.28	0.805	20	
1,2,3-Trichloropropane	15.53	1.0	20	0	77.6	73 - 122	15.75	1.4	20	
1,2,4-Trichlorobenzene	13.15	1.0	20	0	65.7	69 - 130	13.04	0.785	20	S
1,2,4-Trimethylbenzene	12.24	1.0	20	0	61.2	76 - 124	12.25	0.0864	20	S
1,2-Dibromo-3-chloropropane	17.36	1.0	20	0	86.8	62 - 128	16.66	4.1	20	
1,2-Dibromoethane	16.42	1.0	20	0	82.1	77 - 121	16.79	2.2	20	
1,2-Dichlorobenzene	13.39	1.0	20	0	67.0	80 - 119	13.26	0.999	20	S
1,2-Dichloroethane	14.07	1.0	20	0	70.4	73 - 128	14.68	4.22	20	S
1,2-Dichloropropane	13.44	1.0	20	0	67.2	78 - 122	13.97	3.83	20	S
1,3,5-Trimethylbenzene	11.27	1.0	20	0	56.3	75 - 124	11.19	0.681	20	S
1,3-Dichlorobenzene	13.39	1.0	20	0	67.0	80 - 119	13.26	0.999	20	S
1,3-Dichloropropane	15	1.0	20	0	75.0	80 - 119	15.55	3.54	20	S
1,4-Dichlorobenzene	13.39	1.0	20	0	67.0	79 - 118	13.26	0.999	20	S
2,2-Dichloropropane	13.08	1.0	20	0	65.4	60 - 139	13.7	4.6	20	
2-Butanone	32.59	2.0	40	0	81.5	56 - 143	32.38	0.646	20	
2-Chlorotoluene	13.9	1.0	20	0	69.5	79 - 122	14.46	3.99	20	S
2-Hexanone	45.43	2.0	40	0	114	57 - 139	46.02	1.29	20	
4-Chlorotoluene	13.87	1.0	20	0	69.4	78 - 122	13.82	0.396	20	S
4-Isopropyltoluene	12.99	1.0	20	0	65.0	77 - 127	13.08	0.64	20	S
4-Methyl-2-pentanone	35.25	2.0	40	0	88.1	67 - 130	36.29	2.92	20	
Acetone	26.7	2.0	40	0	66.7	39 - 160	27.24	2.02	20	
Benzene	13.36	1.0	20	0	66.8	79 - 120	13.61	1.89	20	S
Bromobenzene	14.72	1.0	20	0	73.6	80 - 120	14.8	0.5	20	S
Bromochloromethane	15.12	1.0	20	0	75.6	78 - 123	15.76	4.17	20	S
Bromodichloromethane	14.22	1.0	20	0	71.1	79 - 125	14.54	2.23	20	S
Bromoform	14.82	1.0	20	0	74.1	66 - 130	15.41	3.9	20	
Bromomethane	20.61	1.0	20	0	103	53 - 141	21.34	3.49	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24061581

QC BATCH REPORT

Batch ID: R471539 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24061703-05MSD** Units: **ug/L** Analysis Date: **05-Jul-2024 19:03**
Client ID: Run ID: **VOA9_471539** SeqNo: **8129829** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	26.78	2.0	40	0	67.0	64 - 133	27.34	2.06	20	
Carbon tetrachloride	13.76	1.0	20	0	68.8	72 - 136	14.45	4.88	20	S
Chlorobenzene	14.02	1.0	20	0	70.1	82 - 118	14.68	4.59	20	S
Chloroethane	12.43	1.0	20	0	62.2	60 - 138	13.25	6.4	20	
Chloroform	13.87	1.0	20	0	69.4	79 - 124	14.49	4.35	20	S
Chloromethane	12.29	1.0	20	0	61.4	50 - 139	12.43	1.13	20	
cis-1,2-Dichloroethene	14.03	1.0	20	0	70.1	78 - 123	14.41	2.72	20	S
cis-1,3-Dichloropropene	13.17	1.0	20	0	65.8	75 - 124	13.63	3.42	20	S
Dibromochloromethane	14.94	1.0	20	0	74.7	74 - 126	14.91	0.219	20	
Dibromomethane	15.25	1.0	20	0	76.2	79 - 123	15.39	0.93	20	S
Dichlorodifluoromethane	11.95	1.0	20	0	59.7	32 - 152	12.83	7.15	20	
Ethylbenzene	14.45	1.0	20	0	72.2	79 - 121	14.84	2.67	20	S
Hexachlorobutadiene	13.15	2.0	20	0	65.7	66 - 134	13.75	4.51	20	S
Isopropylbenzene	13.44	1.0	20	0	67.2	72 - 131	13.71	2.03	20	S
m,p-Xylene	26.82	2.0	40	0	67.0	80 - 121	27.53	2.62	20	S
Methylene chloride	9.427	2.0	20	0	47.1	74 - 124	9.765	3.52	20	S
Naphthalene	14.25	1.0	20	0	71.2	61 - 128	13.86	2.78	20	
n-Butylbenzene	13.21	1.0	20	0	66.1	75 - 128	12.91	2.33	20	S
n-Propylbenzene	13.25	1.0	20	0	66.3	76 - 126	13.58	2.48	20	S
o-Xylene	13.76	1.0	20	0	68.8	78 - 122	13.91	1.12	20	S
sec-Butylbenzene	12.99	1.0	20	0	65.0	77 - 126	13.13	1.06	20	S
Styrene	13.45	1.0	20	0	67.3	78 - 123	13.59	1.06	20	S
tert-Butylbenzene	13.31	1.0	20	0	66.5	78 - 124	13.57	1.94	20	S
Tetrachloroethene	14.38	1.0	20	0	71.9	74 - 129	15.24	5.79	20	S
Toluene	14.72	1.0	20	0	73.6	80 - 121	15.39	4.42	20	S
trans-1,2-Dichloroethene	13.9	1.0	20	0	69.5	75 - 124	14.59	4.82	20	S
trans-1,3-Dichloropropene	14.02	1.0	20	0	70.1	73 - 127	14.06	0.309	20	S
Trichloroethene	14.93	1.0	20	0	74.7	79 - 123	15.3	2.41	20	S
Trichlorofluoromethane	15.5	1.0	20	0	77.5	65 - 141	16.31	5.11	20	
Vinyl chloride	13.38	1.0	20	0	66.9	58 - 137	14.45	7.74	20	
Surr: 1,2-Dichloroethane-d4	*55.8*	*1.0*	*50*	*0*	*112*	*81 - 118*	*55.32*	*0.88*	*20*	
Surr: 4-Bromofluorobenzene	*59.96*	*1.0*	*50*	*0*	*120*	*85 - 114*	*60.41*	*0.759*	*20*	S
Surr: Dibromofluoromethane	*56.72*	*1.0*	*50*	*0*	*113*	*80 - 119*	*55.33*	*2.46*	*20*	
Surr: Toluene-d8	*58.64*	*1.0*	*50*	*0*	*117*	*89 - 112*	*58.54*	*0.175*	*20*	S

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Jul-24

Client:	Bhate Environmental Associates, Inc.
Project:	Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder:	HS24061581

QC BATCH REPORT

Batch ID:	**R471539 (0)**	**Instrument:**	**VOA9**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch:	HS24061581-01	HS24061581-02

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Jul-24

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: HS24061581

QC BATCH REPORT

Batch ID: R471237 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **03-Jul-2024 15:26**
Client ID: Run ID: **ICS-Integrion_471237** SeqNo: **8123363** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.250	0.500								U
Sulfate	0.250	0.500								U

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **03-Jul-2024 15:32**
Client ID: Run ID: **ICS-Integrion_471237** SeqNo: **8123364** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.61	0.500	20	0	103	80 - 120				
Sulfate	21.64	0.500	20	0	108	80 - 120				

MS Sample ID: **HS24061581-010MS** Units: **mg/L** Analysis Date: **03-Jul-2024 15:50**
Client ID: **LH18/24-SP650_062524** Run ID: **ICS-Integrion_471237** SeqNo: **8123367** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	868.7	5.00	100	776	92.8	80 - 120				O
Sulfate	128.9	5.00	100	26.26	103	80 - 120				

MSD Sample ID: **HS24061581-01MSD** Units: **mg/L** Analysis Date: **03-Jul-2024 15:56**
Client ID: **LH18/24-SP650_062524** Run ID: **ICS-Integrion_471237** SeqNo: **8123368** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	866.8	5.00	100	776	90.8	80 - 120	868.7	0.224	20	O
Sulfate	128.6	5.00	100	26.26	102	80 - 120	128.9	0.233	20	

The following samples were analyzed in this batch: HS24061581-01

Revision: 1

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Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
WorkOrder: **HS24061581**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

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ALS Houston, US Date: 30-Jul-24

Sample Receipt Checklist

Work Order ID: HS24061581 **Date/Time Received:** 26-Jun-2024 10:00

Client Name: Bhate Environmental **Received by:** Si Ma

Completed By: /S/ Kaycee Rogers (eSignature) 26-Jun-2024 15:54 (Date/Time) **Reviewed by:** /S/ Alexis Dorenbosch (eSignature) 27-Jun-2024 13:36 (Date/Time)

Matrices: W Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.7UC/1.8C	IR 31
Cooler(s)/Kit(s):	49175	
Date/Time sample(s) sent to storage:	06/26/2024 1554	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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CHAIN OF CUSTODY

HS24061581

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210, Houston, Tx. 77099 ATTN: James Guin

Bhate Environmental Associates, Inc.
Groundwater Treatment Plant Bi-Weekly Samples

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O Number

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analys: VOC	Analys: CHLORIDE, SULFATE	Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_062524	Water	06/25/24 / 13:00		3	3		HCL	
LH18/24-SP650_062524	Water	06/25/24 / 13:00		1		1	NONE	
Trip Blank	Water	06/25/24		2	2		HCL	

Additional Remarks: **Standard TAT on all parameters**

Relinquished By:	Date	Time	Received By:	Date	Time	Relinquished By:	Date	Time	Received By:	Date	Time
Scott Beesinger	06/25/24	13:30							Gm	06/26/24	10.00

9For Lab Use Only

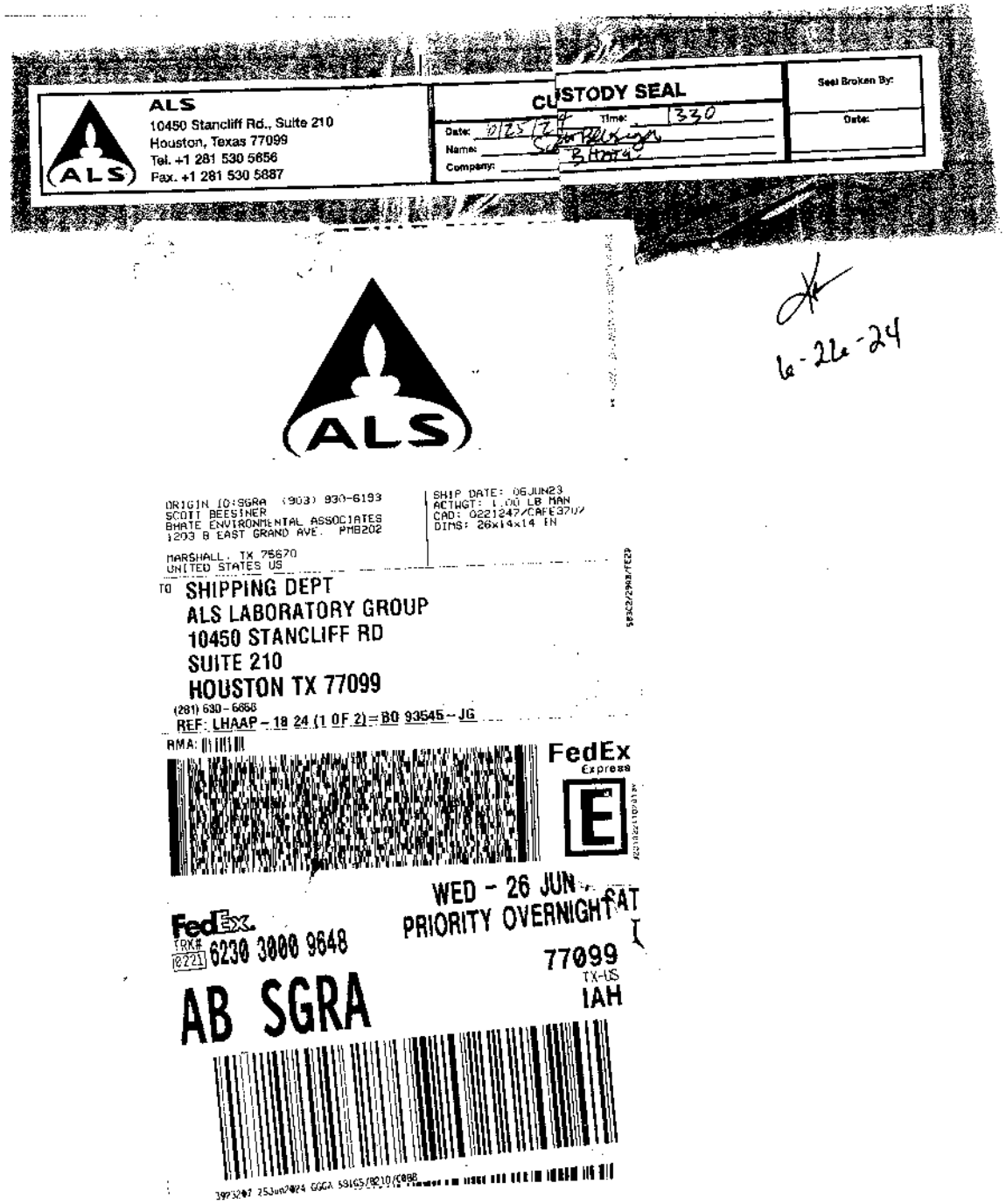
Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition

Remarks

Cooler 49175 Temp 4°C Blank 3/1 1-7 Out to 1

(Word) S:\U-ces\Forms\Chain of Custody - BiWeekly

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HS24061581-MSVOA-SW8260

ALS WO# HS24061581

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24061581

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder **HS24061581**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-471539

LH18/24-SP650_062524

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24061581-01	Water	07/05/24 11:30	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U070507.D	57	50	114		81-118
4-Bromofluorobenzene	U070507.D	57	50	114		85-114
Dibromofluoromethane	U070507.D	57	50	115		80-119
Toluene-d8	U070507.D	58	50	117		89-112

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24061581-02	Water	07/05/24 14:03	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U070514.D	58	50	115		81-118
4-Bromofluorobenzene	U070514.D	57	50	113		85-114
Dibromofluoromethane	U070514.D	58	50	116		80-119
Toluene-d8	U070514.D	58	50	116		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24061703-05MS	Aqueous	07/05/24 18:42	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U070528.D	55.32	50	111		81-118
4-Bromofluorobenzene	U070528.D	60.41	50	121		85-114
Dibromofluoromethane	U070528.D	55.33	50	111		80-119
Toluene-d8	U070528.D	58.54	50	117		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
Workorder: HS24061581

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-471539

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24061703-05MSD	Aqueous	07/05/24 19:03	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U070529.D	55.8	50	112		81-118
4-Bromofluorobenzene	U070529.D	59.96	50	120		85-114
Dibromofluoromethane	U070529.D	56.72	50	113		80-119
Toluene-d8	U070529.D	58.64	50	117		89-112

VBLKW-240705

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240705	Aqueous	07/05/24 11:02	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U070506.D	57.83	50	116		81-118
4-Bromofluorobenzene	U070506.D	55.59	50	111		85-114
Dibromofluoromethane	U070506.D	57.64	50	115		80-119
Toluene-d8	U070506.D	55.96	50	112		89-112

VLCSW-240705

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240705	Aqueous	07/05/24 10:19	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U070504.D	54.02	50	108		81-118
4-Bromofluorobenzene	U070504.D	56.98	50	114		85-114
Dibromofluoromethane	U070504.D	55.35	50	111		80-119
Toluene-d8	U070504.D	55.96	50	112		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	HS24061581	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-471539

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	07/05/24 09:15	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U070502.D	54.76	50	110		80-120
4-Bromofluorobenzene	U070502.D	59.04	50	118		80-120
Dibromofluoromethane	U070502.D	55.13	50	110		80-120
Toluene-d8	U070502.D	58.04	50	116		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24061581

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: Groundwater Treatment Plant Bi-Weekly Samples

Workorder: HS24061581

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24061703-05MS

BatchQC (HS24061703-05)				HS24061703-05MS				HS24061703-05MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 07/05/24				Run Date: 07/05/24						
Instrument ID: VOA9				Run Time: 18:42				Run Time: 19:03						
				Data File: U070528.D				Data File: U070529.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	14.9728	20	75		14.3322	20	72		20	4.37	
1,1,1-Trichloroethane	74-131	1	0	14.7041	20	74		14.0990	20	70		20	4.2	
1,1,2,2-Tetrachloroethane	71-121	1	0	16.7003	20	84		16.1344	20	81		20	3.45	
1,1,2-Trichloroethane	80-119	1	0	16.1645	20	81		15.8289	20	79		20	2.1	
1,1-Dichloroethane	77-125	1	0	13.4094	20	67		12.7671	20	64		20	4.91	
1,1-Dichloroethene	71-131	1	0	14.8289	20	74		14.0311	20	70		20	5.53	
1,1-Dichloropropene	78-125	1	0	14.5808	20	73		14.0422	20	70		20	3.76	
1,2,3-Trichlorobenzene	69-129	1	0	14.2810	20	71		14.3964	20	72		20	0.805	
1,2,3-Trichloropropane	73-122	1	0	15.7475	20	79		15.5293	20	78		20	1.4	
1,2,4-Trichlorobenzene	69-130	1	0	13.0428	20	65		13.1456	20	66		20	0.785	
1,2,4-Trimethylbenzene	76-124	1	0	12.2465	20	61		12.2359	20	61		20	0.0864	
1,2-Dibromo-3-chloropropane	62-128	1	0	16.6592	20	83		17.3562	20	87		20	4.1	
1,2-Dibromoethane	77-121	1	0	16.7886	20	84		16.4226	20	82		20	2.2	
1,2-Dichlorobenzene	80-119	1	0	13.2588	20	66		13.3919	20	67		20	0.999	
1,2-Dichloroethane	73-128	1	0	14.6777	20	73		14.0705	20	70		20	4.22	
1,2-Dichloropropane	78-122	1	0	13.9653	20	70		13.4409	20	67		20	3.83	
1,3,5-Trimethylbenzene	75-124	1	0	11.1911	20	56		11.2676	20	56		20	0.681	
1,3-Dichlorobenzene	80-119	1	0	13.2588	20	66		13.3919	20	67		20	0.999	
1,3-Dichloropropane	80-119	1	0	15.5450	20	78		15.0047	20	75		20	3.54	
1,4-Dichlorobenzene	79-118	1	0	13.2588	20	66		13.3919	20	67		20	0.999	
2,2-Dichloropropane	60-139	1	0	13.6999	20	68		13.0842	20	65		20	4.6	
2-Butanone	56-143	1	0	32.3765	40	81		32.5865	40	82		20	0.646	
2-Chlorotoluene	79-122	1	0	14.4639	20	72		13.8977	20	70		20	3.99	
2-Hexanone	57-139	1	0	46.0209	40	115		45.4302	40	114		20	1.29	
4-Chlorotoluene	78-122	1	0	13.8163	20	69		13.8711	20	69		20	0.396	
4-Isopropyltoluene	77-127	1	0	13.0756	20	65		12.9922	20	65		20	0.64	
4-Methyl-2-pentanone	67-130	1	0	36.2938	40	91		35.2489	40	88		20	2.92	
Acetone	39-160	1	0	27.2435	40	68		26.6982	40	67		20	2.02	
Benzene	79-120	1	0	13.6134	20	68		13.3582	20	67		20	1.89	
Bromobenzene	80-120	1	0	14.7972	20	74		14.7234	20	74		20	0.5	
Bromochloromethane	78-123	1	0	15.7622	20	79		15.1178	20	76		20	4.17	
Bromodichloromethane	79-125	1	0	14.5419	20	73		14.2217	20	71		20	2.23	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: Groundwater Treatment Plant Bi-Weekly Samples
Workorder: HS24061581

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24061703-05MS

BatchQC (HS24061703-05)				HS24061703-05MS				HS24061703-05MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 07/05/24				Run Date: 07/05/24						
Instrument ID: VOA9				Run Time: 18:42				Run Time: 19:03						
				Data File: U070528.D				Data File: U070529.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromoform	66-130	1	0	15.4131	20	77		14.8239	20	74		20	3.9	
Bromomethane	53-141	1	0	21.3449	20	107		20.6117	20	103		20	3.49	
Carbon disulfide	64-133	1	0	27.3394	40	68		26.7818	40	67		20	2.06	
Carbon tetrachloride	72-136	1	0	14.4470	20	72		13.7592	20	69		20	4.88	
Chlorobenzene	82-118	1	0	14.6804	20	73		14.0220	20	70		20	4.59	
Chloroethane	60-138	1	0	13.2524	20	66		12.4306	20	62		20	6.4	
Chloroform	79-124	1	0	14.4889	20	72		13.8726	20	69		20	4.35	
Chloromethane	50-139	1	0	12.4254	20	62		12.2855	20	61		20	1.13	
cis-1,2-Dichloroethene	78-123	1	0	14.4137	20	72		14.0270	20	70		20	2.72	
cis-1,3-Dichloropropene	75-124	1	0	13.6261	20	68		13.1676	20	66		20	3.42	
Dibromochloromethane	74-126	1	0	14.9099	20	74		14.9426	20	75		20	0.219	
Dibromomethane	79-123	1	0	15.3879	20	77		15.2455	20	76		20	0.93	
Dichlorodifluoromethane	32-152	1	0	12.8339	20	64		11.9476	20	60		20	7.15	
Ethylbenzene	79-121	1	0	14.8394	20	74		14.4478	20	72		20	2.67	
Hexachlorobutadiene	66-134	1	0	13.7537	20	69		13.1477	20	66		20	4.51	
Isopropylbenzene	72-131	1	0	13.7143	20	69		13.4387	20	67		20	2.03	
m,p-Xylene	80-121	1	0	27.5281	40	69		26.8166	40	67		20	2.62	
Methylene chloride	74-124	1	0	9.76494	20	49		9.42698	20	47		20	3.52	
Naphthalene	61-128	1	0	13.8565	20	69		14.2472	20	71		20	2.78	
n-Butylbenzene	75-128	1	0	12.9106	20	65		13.2149	20	66		20	2.33	
n-Propylbenzene	76-126	1	0	13.5833	20	68		13.2501	20	66		20	2.48	
o-Xylene	78-122	1	0	13.9149	20	70		13.7598	20	69		20	1.12	
sec-Butylbenzene	77-126	1	0	13.1312	20	66		12.9926	20	65		20	1.06	
Styrene	78-123	1	0	13.5933	20	68		13.4502	20	67		20	1.06	
tert-Butylbenzene	78-124	1	0	13.5680	20	68		13.3067	20	66		20	1.94	
Tetrachloroethene	74-129	1	0	15.2361	20	76		14.3789	20	72		20	5.79	
Toluene	80-121	1	0	15.3885	20	77		14.7224	20	74		20	4.42	
trans-1,2-Dichloroethene	75-124	1	0	14.5889	20	73		13.9025	20	70		20	4.82	
trans-1,3-Dichloropropene	73-127	1	0	14.0592	20	70		14.0158	20	70		20	0.309	
Trichloroethene	79-123	1	0	15.2985	20	76		14.9342	20	75		20	2.41	
Trichlorofluoromethane	65-141	1	0	16.3110	20	82		15.4980	20	78		20	5.11	
Vinyl chloride	58-137	1	0	14.4528	20	72		13.3756	20	67		20	7.74	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	HS24061581	

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM
HS24061703-05MS

BatchQC (HS24061703-05)				HS24061703-05MS		HS24061703-05MSD		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	07/05/24	Run Date	07/05/24	
Instrument ID	VOA9			Run Time	18:42	Run Time	19:03	
				Data File	U070528.D	Data File	U070529.D	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24061581

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

SAMPLENUM VLCSW-240705

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_471539			VLCSW-240705				
Spike Matrix Aqueous	Result Units ug/L		Run Date 07/05/24 Run Time 10:19				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
1,1,1,2-Tetrachloroethane	78-124	20	19.36	96.8			
1,1,1-Trichloroethane	74-131	20	18.99	95.0			
1,1,2,2-Tetrachloroethane	71-121	20	18.97	94.8			
1,1,2-Trichloroethane	80-119	20	20.05	100			
1,1-Dichloroethane	77-125	20	17.75	88.8			
1,1-Dichloroethene	71-131	20	19.46	97.3			
1,1-Dichloropropene	78-125	20	20.13	101			
1,2,3-Trichlorobenzene	69-129	20	20.81	104			
1,2,3-Trichloropropane	73-122	20	18.17	90.9			
1,2,4-Trichlorobenzene	69-130	20	20.23	101			
1,2,4-Trimethylbenzene	76-124	20	18.6	93.0			
1,2-Dibromo-3-chloropropane	62-128	20	20.25	101			
1,2-Dibromoethane	77-121	20	20.63	103			
1,2-Dichlorobenzene	80-119	20	18.63	93.2			
1,2-Dichloroethane	73-128	20	18.54	92.7			
1,2-Dichloropropane	78-122	20	18.66	93.3			
1,3,5-Trimethylbenzene	75-124	20	18.84	94.2			
1,3-Dichlorobenzene	80-119	20	18.63	93.2			
1,3-Dichloropropane	80-119	20	19.38	96.9			
1,4-Dichlorobenzene	79-118	20	18.63	93.2			
2,2-Dichloropropane	60-139	20	19.66	98.3			
2-Butanone	56-143	40	35.89	89.7			
2-Chlorotoluene	79-122	20	20.09	100			
2-Hexanone	57-139	40	39.85	99.6			
4-Chlorotoluene	78-122	20	20.22	101			
4-Isopropyltoluene	77-127	20	19.15	95.7			
4-Methyl-2-pentanone	67-130	40	37.09	92.7			
Acetone	39-160	40	35.83	89.6			
Benzene	79-120	20	18.34	91.7			
Bromobenzene	80-120	20	19.92	99.6			
Bromochloromethane	78-123	20	19.78	98.9			
Bromodichloromethane	79-125	20	19.19	96.0			
Bromoform	66-130	20	18.74	93.7			
Bromomethane	53-141	20	27.97	140			
Carbon disulfide	64-133	40	37.99	95.0			

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

SAMPLENUM VLCSW-240705

Volatiles by EPA Volatiles Organics by Method 8260C

VOA9_471539			VLCSW-240705				
Spike Matrix Aqueous	Result Units ug/L		Run Date 07/05/24 Run Time 10:19				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
Carbon tetrachloride	72-136	20	18.78	93.9			
Chlorobenzene	82-118	20	19.48	97.4			
Chloroethane	60-138	20	16.7	83.5			
Chloroform	79-124	20	18.87	94.4			
Chloromethane	50-139	20	15.59	78.0			
cis-1,2-Dichloroethene	78-123	20	19.34	96.7			
cis-1,3-Dichloropropene	75-124	20	18.54	92.7			
Dibromochloromethane	74-126	20	20.34	102			
Dibromomethane	79-123	20	19.25	96.2			
Dichlorodifluoromethane	32-152	20	18	90.0			
Ethylbenzene	79-121	20	20.39	102			
Hexachlorobutadiene	66-134	20	19.73	98.6			
Isopropylbenzene	72-131	20	19.58	97.9			
m,p-Xylene	80-121	40	39.08	97.7			
Methylene chloride	74-124	20	16.03	80.1			
Naphthalene	61-128	20	18.66	93.3			
n-Butylbenzene	75-128	20	19.45	97.2			
n-Propylbenzene	76-126	20	19.6	98.0			
o-Xylene	78-122	20	19.06	95.3			
sec-Butylbenzene	77-126	20	18.85	94.3			
Styrene	78-123	20	19.34	96.7			
tert-Butylbenzene	78-124	20	18.99	94.9			
Tetrachloroethene	74-129	20	20.38	102			
Toluene	80-121	20	20.46	102			
trans-1,2-Dichloroethene	75-124	20	18.64	93.2			
trans-1,3-Dichloropropene	73-127	20	18.77	93.9			
Trichloroethene	79-123	20	20.1	100			
Trichlorofluoromethane	65-141	20	21.17	106			
Vinyl chloride	58-137	20	18.74	93.7			

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24061581

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	HS24061581	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240705	Aqueous	07/05/24 11:02	R471539	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240705	VLCSW-240705	LCS	07/05/24 10:19	R471539	VOA9	U070504.D
LH18/24-SP650_062524	HS24061581-01	SAMP	07/05/24 11:30	R471539	VOA9	U070507.D
Trip Blank	HS24061581-02	SAMP	07/05/24 14:03	R471539	VOA9	U070514.D
BatchQC	HS24061703-05MS	MS	07/05/24 18:42	R471539	VOA9	U070528.D
BatchQC	HS24061703-05MSD	MSD	07/05/24 19:03	R471539	VOA9	U070529.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24061581

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U070201 BFB Injection Date: 07/02/24

Instrument ID: VOA9 BFB Injection Time: 0947

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.6
75	30.0 - 60.0% of mass 95	50.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	7.1 (8.7)1
176	95.0 - 101.0% of mass 174	79.0 (96.6)1
177	5.0 - 9.0% of mass 176	5.3 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD00.25	VSTD00.25	U070202	07/02/24	1008
02	VSTD00.5	VSTD00.5	U070203	07/02/24	1030
03	VSTD001	VSTD001	U070204	07/02/24	1051
04	VSTD002	VSTD002	U070205	07/02/24	1113
05	VSTD005	VSTD005	U070206	07/02/24	1134
06	VSTD020	VSTD020	U070207	07/02/24	1156
07	VSTD050	VSTD050	U070208	07/02/24	1217
08	VSTD100	VSTD100	U070209	07/02/24	1239
09	VSTD150	VSTD150	U070210	07/02/24	1300
10	VSTD200	VSTD200	U070211	07/02/24	1322
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V9

Lab File ID: U070213 BFB Injection Date: 07/02/24

Instrument ID: VOA9 BFB Injection Time: 1405

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	49.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	85.9
175	5.0 - 9.0% of mass 174	7.6 (8.9)1
176	95.0 - 101.0% of mass 174	82.5 (96.0)1
177	5.0 - 9.0% of mass 176	5.5 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	U070215	07/02/24	1448
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	HS24061581	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-471539

Tune File: U070501.D — 07/05/24 7/5/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	17.7 (17.7)
75	30.0 - 60.0% of mass 95	48.8 (48.8)
95	Base peak, 100% RA	100 (99.9)
96	5.0 - 9.0% of mass 95	6.4 (6.41)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	100.1 (100) 1
175	5.0 - 9.0% of mass 174	7.8 (7.79) 1
176	> 95% but < 101% of mass 174	95.9 (95.8) 1
177	5.0 - 9.0% of mass 176	6.1 (6.31) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	7/5/2024	U070502	VSTD050
2	VLCSW-	LCS	7/5/2024	U070504	VLCSW-240705
3	VBLKW-	MBLK	7/5/2024	U070506	VBLKW-240705
4	HS24061581-	SAMP	7/5/2024	U070507	LH18/24-SP650_062524
5	HS24061581-	SAMP	7/5/2024	U070514	Trip Blank
6	HS24061703-	MS	7/5/2024	U070528	ZZZZZZMS
7	HS24061703-	MSD	7/5/2024	U070529	ZZZZZZMSD
8	VSTD050	CCV_EN	7/5/2024	U070530	VSTD050

Report Date : 16-Jul-2024 13:06 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2024 10:08
End Cal Date : 02-JUL-2024 13:22
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\8260C.m
Last Edit : 10-Jul-2024 11:59 r.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070202.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070206.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070207.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070208.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070209.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070210.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070211.D

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Dichlorodifluoromethane	+++++ / 55125	249 / 109818	686 / 158291	1353 / 217138	6327	21047	LINR	-0.00295	0.26192		0.99988
3 Chloromethane	+++++ / 131613	3112 / 248634	4126 / 345753	6433 / 452696	16787	52167	QUAD	-0.01308	1.49248	0.15764	0.99983
4 Propionitrile	+++++ / 0.04255	0.05164 / 0.04053	0.03976 / 0.04233	0.03944 / 0.04163	0.04533	0.04143	AVRG		0.04274		8.82696

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2024 10:08
End Cal Date : 02-JUL-2024 13:22
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\8260C.m
Last Edit : 10-Jul-2024 11:59 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
5 Vinyl Chloride	+++++	0.24713	0.30660	0.28769	0.41680	0.33007						
	0.35871	0.35326	0.35732	0.35716			AVRG		0.33497		14.68849	
6 Bromomethane	+++++	568	785	1370	3265	9517						
	24384	50219	78414	112316			QUAD	-0.02299	8.97845	-2.89852	0.99969	
7 Chloroethane	+++++	0.25332	0.27769	0.24247	0.27372	0.22410						
	0.22878	0.22392	0.22694	0.22724			AVRG		0.24202		8.85627	
8 Trichlorofluoromethane	+++++	0.16613	0.30077	0.30485	0.47797	0.40511						
	0.43055	0.42863	0.42764	0.42800			AVRG		0.37441		26.22168	<-
9 Acrolein	+++++	24.00000	172	356	715	1854						
	5070	11351	17834	23052			LINR	0.04148	0.01418		0.99685	<-
10 Acetone	+++++	+++++	+++++	3080	5689	17999						
	40525	81336	113656	147501			LINR	-0.18413	0.08924		0.99793	<-
11 1,1-Dichloroethene	+++++	+++++	0.18248	0.20507	0.26649	0.22351						
	0.23199	0.23146	0.23397	0.24079			AVRG		0.22697		10.94281	

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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\8260C.m
Last Edit : 10-Jul-2024 11:59 r.patel

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Isobutyl Alcohol	+++++	0.03844	0.04184	0.03934	0.04332	0.03959					
	0.04270	0.04250	0.04353	0.04351			AVRG		0.04164		4.77279
13 Acetonitrile	+++++	876	1345	2508	6250	24078					
	61345	120610	181152	248217			LINR	0.01340	0.02982		0.99958
14 Allyl Chloride	+++++	0.97974	0.83520	0.77084	0.74385	0.69612					
	0.69135	0.66315	0.69128	0.69172			AVRG		0.75147		13.40878
15 Iodomethane	+++++	+++++	1238	1956	4716	17620					
	54461	131219	+++++	+++++			QUAD	0.00907	8.47629	-3.33904	0.99934
16 Acrylonitrile	+++++	569	997	1894	4628	16699					
	40697	79241	117413	160592			LINR	-0.02611	0.09633		0.99970
17 Methylene Chloride	+++++	+++++	+++++	10391	13945	30748					
	65411	124971	174596	239383			LINR	-0.15165	0.27705		0.99999
18 Methyl tert-butyl ether	+++++	0.93795	0.77128	0.67567	0.74481	0.68668					
	0.68633	0.67508	0.70544	0.71286			AVRG		0.73290		11.38934

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++	0.56700	0.60193	0.58319	0.71494	0.63068					
	0.67419	0.66742	0.67718	0.69080			AVRG		0.64526		8.00466
20 trans-1,2-Dichloroethene	+++++	0.21153	0.27610	0.25874	0.29613	0.25284					
	0.26095	0.25663	0.25730	0.26233			AVRG		0.25917		8.61255
21 Vinyl Acetate	+++++	0.19786	0.14322	0.15704	0.16416	0.14778					
	0.16429	0.16273	0.16561	0.16297			AVRG		0.16285		9.42111
22 1,1-Dichloroethane	+++++	0.56494	0.55035	0.52440	0.54663	0.46203					
	0.48323	0.46981	0.47207	0.47456			AVRG		0.50533		8.07711
23 Chloroprene	+++++	0.30285	0.33976	0.34238	0.42298	0.39131					
	0.41149	0.40582	0.41653	0.41067			AVRG		0.38264		11.25279
24 2-Butanone	+++++	0.19579	0.15264	0.15147	0.15161	0.13795					
	0.14868	0.14604	0.14876	0.14578			AVRG		0.15319		10.82311
25 Methacrylonitrile	+++++	926	1341	1517	3928	14733					
	40535	83463	120735	160353			LINR	-0.00769	0.19572		0.99936

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26 2,2-Dichloropropane	+++++	460	1019	2443	7609	27200					
	75887	158625	231124	327503			LINR	0.02521	0.39150		0.99949
27 cis-1,2-Dichloroethene	+++++	0.30130	0.30289	0.33265	0.36788	0.30526					
	0.32391	0.31850	0.32210	0.32654			AVRG		0.32234		6.32729
28 Chloroform	+++++	0.58558	0.54451	0.56334	0.60593	0.51535					
	0.54217	0.52584	0.52430	0.52028			AVRG		0.54748		5.75234
29 Bromochloromethane	+++++	0.14394	0.15038	0.17792	0.18589	0.15422					
	0.16350	0.15694	0.16073	0.15835			AVRG		0.16132		8.15322
31 1,1,1-Trichloroethane	+++++	595	1149	2623	8979	32118					
	89238	180629	260946	369085			LINR	0.01544	0.44117		0.99969
32 1,1-Dichloropropene	+++++	0.21526	0.21981	0.21584	0.30946	0.25440					
	0.27259	0.27333	0.26839	0.27582			AVRG		0.25610		12.77633
33 1,2-Dichloroethane	+++++	0.30650	0.32524	0.30122	0.32769	0.27893					
	0.28657	0.28301	0.27890	0.27673			AVRG		0.29609		6.76503

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34 Carbon Tetrachloride	+++++	492	1148	2146	7178	26188						
	71591	153471	221275	313826			LINR	0.02661	0.25898		0.99952	
37 Benzene	+++++	0.96917	0.89980	0.86954	0.92108	0.79261						
	0.83871	0.82467	0.82387	0.82691			AVRG		0.86293		6.59249	
38 Trichloroethene	+++++	0.15612	0.19539	0.20909	0.23271	0.20476						
	0.21434	0.21196	0.21279	0.21684			AVRG		0.20600		10.28884	<-
39 Bromodichloromethane	+++++	0.25581	0.22262	0.23223	0.26342	0.23941						
	0.26902	0.27185	0.27360	0.27605			AVRG		0.25600		7.74146	
40 Methyl Methacrylate	+++++	+++++	0.11909	0.11259	0.11176	0.09624						
	0.11063	0.10978	0.12010	0.12232			AVRG		0.11281		7.28321	<-
41 2-Chloroethylvinyl ether	+++++	+++++	+++++	12.00000	160	857						
	3196	10149	19456	+++++			QUAD	0.23761	149	-941	0.99420	<-
42 1,2-Dichloropropane	+++++	0.23790	0.24898	0.23586	0.24383	0.20542						
	0.22632	0.22136	0.21954	0.21852			AVRG		0.22864		6.11722	

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43 2-Nitropropane	+++++	0.69495	0.64556	0.54131	0.62956	0.57345					
	0.61086	0.61485	0.64335	0.65187			AVRG		0.62286		7.25134
44 Dibromomethane	+++++	0.15477	0.12282	0.12447	0.14586	0.12250					
	0.13359	0.13090	0.13042	0.13088			AVRG		0.13291		8.16297
45 4-Methyl-2-Pentanone	+++++	0.25331	0.23599	0.19999	0.23445	0.21791					
	0.23585	0.23550	0.24308	0.24708			AVRG		0.23368		6.85159
46 cis-1,3-Dichloropropene	+++++	803	1244	2822	7612	31229					
	91404	195274	289902	407073			LINR	0.03858	0.33725		0.99931
49 Ethyl Methacrylate	+++++	0.24297	0.25021	0.20639	0.27383	0.27292					
	0.28270	0.28128	0.30295	0.31366			AVRG		0.26966		12.06768
50 Toluene	+++++	0.77854	0.80932	0.86432	0.99729	0.94434					
	1.00816	0.97165	0.99916	0.97282			AVRG		0.92729		9.41260
51 trans-1,3-Dichloropropene	+++++	567	931	2087	6165	24821					
	74299	158830	235238	335426			LINR	0.04469	0.27667		0.99894

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INITIAL CALIBRATION DATA

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
52 2-Hexanone	+++++	1194	2006	3309	10845	34359						
	77421	152383	239130	338535			QUAD	-0.05804	7.50351	-0.79892	0.99934	
53 1,1,2-Trichloroethane	+++++	0.16586	0.19643	0.19005	0.19822	0.17707						
	0.18989	0.17720	0.17761	0.17560			AVRG		0.18310		5.96823	
54 1,3-Dichloropropane	+++++	0.38213	0.34766	0.39298	0.41399	0.36285						
	0.39367	0.38307	0.37800	0.37605			AVRG		0.38115		4.97132	
55 Dibromochloromethane	+++++	0.20084	0.17831	0.17699	0.20632	0.19966						
	0.23393	0.23706	0.24117	0.24290			AVRG		0.21302		12.39243	
56 Tetrachloroethene	+++++	292	708	1683	5602	19435						
	51457	104187	146739	208332			QUAD	-0.00280	5.36807	-0.09205	0.99964	<-
57 1,2-Dibromoethane	+++++	0.18354	0.18084	0.17538	0.21016	0.19311						
	0.21243	0.20952	0.21280	0.21358			AVRG		0.19904		7.90358	
58 1-Chlorohexane	+++++	3059	2986	4130	7239	19595						
	46967	96430	139425	204624			QUAD	-0.06348	7.04320	-1.52812	0.99982	

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59 Chlorobenzene	+++++	0.67248	0.63529	0.63878	0.70740	0.60503						
	0.62561	0.60886	0.61100	0.61562			AVRG		0.63556		5.35845	
60 1,1,1,2-Tetrachloroethane	+++++	0.18655	0.19273	0.20274	0.21091	0.19658						
	0.21961	0.22108	0.22344	0.22837			AVRG		0.20911		7.18876	
61 Ethylbenzene	+++++	0.20460	0.24320	0.26530	0.31074	0.30007						
	0.32724	0.31496	0.31244	0.32483			AVRG		0.28927		14.63944	
62 m,p-Xylenes	+++++	1227	2709	5991	18052	76514						
	214585	436386	629716	885650			LINR	0.03047	0.40264		0.99980	
63 o-Xylene	+++++	770	1360	2943	9037	37767						
	105794	214431	308468	435068			LINR	0.01382	0.39514		0.99976	<-
64 Styrene	+++++	1091	2057	4548	14842	61209						
	172760	360741	536704	745202			LINR	0.02678	0.68024		0.99972	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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66 Bromoform	+++++	312	515	1215	3506	12386						
	37637	83484	128212	185219			LINR	0.06173	0.16710		0.99726	
67 Isopropylbenzene	+++++	1461	3305	7588	25641	96214						
	266577	547059	789608	1115179			LINR	0.01556	1.01185		0.99975	
68 1,1,2,2-Tetrachloroethane	+++++	0.54924	0.58957	0.56589	0.65292	0.54260						
	0.56073	0.54533	0.54764	0.55629			AVRG		0.56780		6.16311	
71 1,2,3-Trichloropropane	+++++	0.60319	0.55848	0.53590	0.59977	0.51819						
	0.54110	0.54486	0.55196	0.53503			AVRG		0.55427		5.24371	
72 trans-1,4-Dichloro-2-butene	+++++	76.00000	228	571	1370	5620						
	15721	33497	48510	64492			QUAD	0.02206	15.65020	4.84027	0.99961	<-
73 n-Propylbenzene	+++++	1572	3693	7990	26913	109379						
	296548	611387	896444	1302918			LINR	0.03420	2.17908		0.99788	
74 Bromobenzene	+++++	0.46756	0.45446	0.44150	0.55417	0.46852						
	0.49756	0.49601	0.49528	0.51086			AVRG		0.48732		6.95475	

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75 1,3,5-Trimethylbenzene	+++++	1140	2335	5126	14961	66052					
	208059	439647	654297	917521			QUAD	0.02047	0.70485	-0.01109	0.99975
76 2-Chlorotoluene	+++++	1.07225	1.04710	1.17010	1.32473	1.21540					
	1.30724	1.28012	1.26332	1.31206			AVRG		1.22137		8.52655
77 4-Chlorotoluene	+++++	1.24758	1.18298	1.23064	1.44029	1.37752					
	1.49726	1.47394	1.46834	1.51671			AVRG		1.38170		9.27357
78 tert-Butylbenzene	+++++	943	2228	5308	17262	70302					
	193428	393724	565442	797218			LINR	0.01582	1.34719		0.99935
79 1,2,4-Trimethylbenzene	+++++	1212	2566	6270	17220	63833					
	194398	422260	632344	902059			LINR	0.05003	1.52107		0.99801
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1204	2721	6272	22809	91648					
	256968	529948	776552	1092207			LINR	0.02614	1.84715		0.99931

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82 p-Isopropyltoluene	+++++	+++++	2361	5267	18418	73444						
	219192	465580	691746	978644			LINR	0.05077	1.65952		0.99874	
83 1,3-Dichlorobenzene	+++++	1.23410	1.05440	0.92631	1.00276	0.83682						
	0.88460	0.86453	0.86661	0.89215			AVRG		0.95136		13.38015	
84 1,4-Dichlorobenzene	+++++	1.23410	1.05440	0.92631	1.00276	0.83682						
	0.88460	0.86453	0.86661	0.89215			AVRG		0.95136		13.38015	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	+++++	+++++	3789	8093	26415						
	71077	154303	238060	352990			QUAD	-0.00781	3.92628	-0.63399	0.99994	
87 n-Butylbenzene	+++++	1121	2215	4738	17176	68437						
	190912	404400	607850	856964			LINR	0.03940	1.44757		0.99876	
88 1,2-Dichlorobenzene	+++++	1.23410	1.05440	0.92631	1.00276	0.83682						
	0.88460	0.86453	0.86661	0.89215			AVRG		0.95136		13.38015	

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89 1,2-Dibromo-3-Chloropropane	+++++ / 10329	11.00000 / 21784	116 / 35189	338 / 50226	993	3542	QUAD	0.01099	14.55670	-8.67507	0.99975	<-
90 1,2,4-Trichlorobenzene	+++++ / 82220	546 / 173280	984 / 262684	2450 / 377587	6955	28674	QUAD	0.00752	1.84100	-0.11284	0.99989	
91 Hexachlorobutadiene	+++++ / 38999	206 / 79733	448 / 123257	1139 / 168006	3772	14459	LINR	0.02709	0.28598		0.99930	
92 Naphthalene	+++++ / 186189	1386 / 402259	2021 / 598755	4141 / 857519	12854	59089	LINR	0.05517	1.44741		0.99802	
93 1,2,3-Trichlorobenzene	+++++ / 0.53252	0.42186 / 0.54368	0.42337 / 0.56516	0.41132 / 0.59196	0.46978	0.48677	AVRG		0.49405		13.63045	
130 Ethyl Acetate	+++++ / 17928	455 / 34143	719 / 50925	1419 / 63775	2667	8541	QUAD	-0.03182	10.92191	6.35897	0.99759	<-
131 Methyl Acrylate	+++++ / 0.35062	0.41223 / 0.34718	0.35514 / 0.36293	0.33150 / 0.35947	0.35796	0.33149	AVRG		0.35650		6.67599	

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Method file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\8260C.m
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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
132 n-Butanol	+++++	0.00905	0.00729	0.00612	0.00703	0.00686						
	0.00762	0.00802	0.00885	0.00919			AVRG		0.00778		13.82624	
133 Ethyl Acrylate	+++++	0.55926	0.53576	0.59651	0.72356	0.69390						
	0.71591	0.71705	0.76003	0.76519			AVRG		0.67413		12.89548	
134 Cyclohexanone	+++++	0.02004	0.01946	0.01750	0.02275	0.02198						
	0.02147	0.02029	0.02070	0.02052			AVRG		0.02052		7.41220	
135 1,4-Dioxane	157	140	265	506	1359	5451						
	13309	27557	39853	56137			LINR	0.10101	0.00335		0.99977	
136 n-Hexane	+++++	+++++	714	1444	6231	21658						
	58653	120255	168148	238278			LINR	0.00739	0.28522		0.99975	
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
138 Freon TF	+++++	165	522	1355	5290	18154						
	49705	99714	141787	200981			LINR	0.00864	0.24016		0.99973	<-

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
146 Methyl Acetate	+++++	+++++	+++++	0.30639	0.27924	0.23565						
	0.23910	0.23055	0.23393	0.22647			AVRG		0.25019		12.15553	
147 Methylcyclohexane	+++++	+++++	0.35493	0.37764	0.47188	0.47238						
	0.49176	0.49947	0.52244	0.52761			AVRG		0.46477		13.84210	<-
149 Isopropyl alcohol	+++++	884	1656	2883	8185	27916						
	70272	146543	214979	300644			QUAD	-0.15201	59.24761	-2.71825	0.99996	
152 Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
150 Allyl alcohol	+++++	253	714	1444	6231	21658						
	58653	120255	168148	238278			LINR	0.14043	0.01426		0.99977	
151 4-Methyl-2-pentanol	+++++	0.04927	0.04393	0.04272	0.04910	0.05352						
	0.05410	0.05534	0.06056	0.06336			AVRG		0.05243		13.24218	
148 Tert-butyl alcohol	+++++	1195	2058	4020	10060	38015						
	93940	188946	284941	395287			LINR	0.17302	0.02364		0.99938	

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
139 Diethyl ether	+++++	576	978	1759	4035	15738					
	39540	80085	119788	165800			LINR	0.00735	0.19858		0.99956
140 1,3-Butadiene	+++++	312	1071	1944	7584	26014					
	69916	141491	202283	282585			LINR	0.00485	0.33909		0.99991
141 Cyclohexane	+++++	+++++	+++++	5807	11886	35440					
	90776	184226	252660	360242			LINR	-0.02898	0.42641		0.99948
142 Tetrahydrofuran	+++++	+++++	620	1049	2298	7524					
	21254	41357	62075	+++++			LINR	0.00202	0.05098		0.99885
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	446	806	1992	6079	24047					
	72550	161993	255662	367882			QUAD	0.02130	1.98685	-0.16277	0.99978

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++	2543	4135	7492	18294	70749						
	177087	357951	548023	721105			LINR	0.00046	0.87941		0.99886	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
159 Propylene oxide	+++++	77.00000	94.00000	356	801	2882						
	7376	14408	19978	31832			QUAD	-0.07103	66.66335	-87.27561	0.99768	

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160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	826	1564	3334	10042	42867						
	110656	227930	364981	539810			QUAD	-2.891e-00	2.58869	-0.28452	0.99975	
163 Butyl methacrylate	+++++	0.47506	0.37424	0.51314	0.55539	0.59014						
	0.51731	0.46274	0.43610	0.47588			AVRG		0.48889		13.14626	
164 Dicyclopentadiene	+++++	2880	2392	12049	29803	111577						
	277152	542881	818680	1157040			QUAD	-0.01735	0.57141	-0.00774	0.99961	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	1.49635	1.17646	1.07311	1.23222	1.09998						
	1.20862	1.26310	1.32361	1.39050			AVRG		1.25155		10.83941	

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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
167 Ethanol	+++++ / 13521	210 / 26023	443 / 40221	1005 / 55312	1515	5569	LINR	-0.12080	0.00330		0.99881	
168 1-Propanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
170 1,3,5-Trichlorobenzene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
172 tert-Butyl formate	+++++ / 0.23311	0.27344 / 0.24685	0.22054 / +++++	0.19572 / +++++	0.22277	0.21987	AVRG		0.23033		10.63403	
173 3,3-Dimethyl-1-butanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
174 tert-Amyl methyl ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
175 tert-Butyl ethyl ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
176 tert-Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	+++++	+++++	0.18720	0.24524	0.21034						
	0.24879	0.25759	0.26001	0.26428			AVRG		0.23906		12.15336	<-
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	+++++	+++++	217	633	3090						
	8857	21222	35249	+++++			QUAD	0.14363	135	-307	0.99967	

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	47.00000	191	441	1844	4211						
	11616	24468	34802	47558			LINR	-0.00445	0.05745		0.99962	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	0.37987	0.34922	0.31565	0.39624	0.39953						
	0.40325	0.38519	0.40404	0.42530			AVRG		0.38425		8.61566	
188 Isopropyl acetate	+++++	0.61164	0.54399	0.53632	0.58897	0.54284						
	0.58660	0.58691	0.59364	0.59659			AVRG		0.57639		4.79177	

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
189 n-Butyl acetate	+++++	0.35429	0.32505	0.34386	0.35336	0.35061						
	0.37583	0.36363	0.38528	0.39203			AVRG		0.36044		5.86374	
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++	+++++	+++++	0.09053	0.07573	0.05875						
	0.06410	0.06543	0.06723	0.06138			AVRG		0.06902		15.78034	<-
195 Methyl Amyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++	212	353	797	2667	14269						
	48429	129136	+++++	+++++			QUAD	0.02695	6.21922	-4.31192	0.99878	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
202 Isobutylene	+++++	331	383	769	2370	9121					
	23418	46999	71720	94500			LINR	0.00343	0.11536		0.99895
203 2-Ethylhexyl Acrylate	+++++	558	686	1336	3863	20064					
	65002	145226	250573	+++++			QUAD	0.02146	2.39319	-0.38890	0.99955
204 Tetrahydrothiophene	+++++	0.28283	0.20676	0.19195	0.24385	0.25963					
	0.26427	0.25874	0.26466	0.26302			AVRG		0.24841		11.98413
205 sec-Butyl Ether	+++++	0.42011	0.41391	0.42213	0.49192	0.44754					
	0.46640	0.44216	0.47462	0.49979			AVRG		0.45318		7.00444
206 2-Chloropropene	+++++	0.33071	0.31191	0.40668	0.46102	0.41444					
	0.40853	0.39304	0.41544	0.41854			AVRG		0.39559		11.67592
M 94 1,2-Dichloroethylene (total)	+++++	0.25642	0.28949	0.29569	0.33201	0.27905					
	0.29243	0.28757	0.28970	0.29443			AVRG		0.29075		6.73917
M 95 Xylenes (total)	+++++	1997	4069	8934	27089	114281					
	320379	650817	938184	1320718			LINR	0.05592	0.36415		0.99981

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$ 30 Dibromofluoromethane	+++++ / 67342	1002 / +++++	1467 / +++++	2754 / +++++	5939	25918	QUAD	-0.00410	3.24791	-0.63040	0.99991
$ 35 1,2-Dichloroethane-d4	+++++ / 79060	1423 / +++++	1922 / +++++	3384 / +++++	7314	30998	QUAD	-0.00646	2.70840	-0.29187	0.99992
$ 48 Toluene-d8	+++++ / 246018	3623 / +++++	4823 / +++++	9217 / +++++	20104	93927	QUAD	-0.00026	1.18379	-0.11862	0.99977
$ 69 4-Bromofluorobenzene	+++++ / 90264	1892 / +++++	2302 / +++++	3757 / +++++	7843	34821	LINR	0.00056	0.33995		0.99923

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2024 10:08
End Cal Date   : 02-JUL-2024 13:22
Quant Method   : ISTD
Target Version : 4.14
Integrator   : HP RTE
Method file   : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\8260C.m
Last Edit   : 10-Jul-2024 11:59 r.patel

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

right solutions.
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Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24061581

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

RunID U070215.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U070215.D	**Inj Date**	02-JUL-2024 1448

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	51.4	103	80-120	
1,1,1-Trichloroethane	50.0	48.6	97.3	80-120	
1,1,2,2-Tetrachloroethane	50.0	46.6	93.2	80-120	
Freon TF	50.0	49.7	99.4	80-120	
Methyl acetate	50.0	46.8	93.6	80-120	
Cyclohexane	50.0	51.3	103	80-120	
Methylcyclohexane	50.0	51.0	102	80-120	
Carbon Disulfide	100	105	105	80-120	
2-Hexanone	100	94.5	94.5	80-120	
1,1,2-Trichloroethane	50.0	48.2	96.5	80-120	
1,1-Dichloroethane	50.0	46.6	93.2	80-120	
1,1-Dichloroethene	50.0	51.2	102	80-120	
1,1-Dichloropropene	50.0	51.9	104	80-120	
1,2,3-Trichlorobenzene	50.0	55.7	111	80-120	
1,2,3-Trichloropropane	50.0	47.2	94.4	80-120	
1,2,4-Trichlorobenzene	50.0	52.4	105	80-120	
1,2,4-Trimethylbenzene	50.0	47.6	95.3	80-120	
1,2-Dibromo-3-Chloropropane	50.0	49.0	98.0	80-120	
1,2-Dibromoethane	50.0	51.7	103	80-120	
Acrolein	100	93.5	93.5	80-120	
Acrylonitrile	100	96.4	96.4	80-120	
1,2-Dichlorobenzene	50.0	46.0	92.1	80-120	
1,2-Dichloroethane	50.0	46.7	93.4	80-120	
1,2-Dichloropropane	50.0	47.5	95.0	80-120	
1,3,5-Trimethylbenzene	50.0	51.0	102	80-120	
1,3-Dichlorobenzene	50.0	46.0	92.1	80-120	
1,3-Dichloropropane	50.0	49.7	99.4	80-120	
1,4-Dichlorobenzene	50.0	46.0	92.1	80-120	
1-Chlorohexane	50.0	50.0	100	80-120	
2,2-Dichloropropane	50.0	45.8	91.6	80-120	
2-Butanone	100	92.2	92.2	80-120	
2-Chloroethylvinyl ether	100	85.4	85.4	80-120	
2-Chlorotoluene	50.0	53.0	106	80-120	
4-Chlorotoluene	50.0	53.2	106	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

RunID U070215.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U070215.D	**Inj Date**	02-JUL-2024 1448

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	48.1	96.2	80-120	
4-Methyl-2-Pentanone	100	94.2	94.2	80-120	
Acetone	100	103	103	80-120	
Acetonitrile	500	477	95.4	80-120	
Allyl Chloride	50.0	44.1	88.1	80-120	
Benzene	50.0	46.8	93.5	80-120	
Bromobenzene	50.0	51.2	102	80-120	
Bromochloromethane	50.0	50.0	99.9	80-120	
Bromodichloromethane	50.0	51.0	102	80-120	
Bromoform	50.0	45.6	91.2	80-120	
Bromomethane	50.0	57.4	115	80-120	
Carbon Tetrachloride	50.0	47.2	94.3	80-120	
Chlorobenzene	50.0	48.8	97.7	80-120	
Chloroethane	50.0	45.5	91.1	80-120	
Chloroform	50.0	48.4	96.8	80-120	
Chloromethane	50.0	48.5	97.0	80-120	
Chloroprene	50.0	51.9	104	80-120	
cis-1,2-Dichloroethene	50.0	49.2	98.3	80-120	
cis-1,3-Dichloropropene	50.0	47.7	95.5	80-120	
Dibromochloromethane	50.0	52.8	106	80-120	
Dibromomethane	50.0	48.3	96.7	80-120	
Dichlorodifluoromethane	50.0	48.8	97.7	80-120	
Ethylbenzene	50.0	54.6	109	80-120	
Ethyl Methacrylate	50.0	50.7	101	80-120	
Iodomethane	100	87.9	87.9	80-120	
Isobutyl Alcohol	1000	989	98.9	70-130	
Propionitrile	500	479	95.8	70-130	
Hexachlorobutadiene	50.0	48.7	97.4	80-120	
Isopropylbenzene	50.0	50.2	100	80-120	
m,p-Xylenes	100	99.9	99.9	80-120	
Methyl tert-butyl ether	50.0	46.0	92.0	80-120	
Methylene Chloride	50.0	49.3	98.6	80-120	
Methacrylonitrile	50.0	47.6	95.1	80-120	
Methyl Methacrylate	50.0	43.8	87.6	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

RunID U070215.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U070215.D	**Inj Date**	02-JUL-2024 1448

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	47.6	95.3	80-120	
n-Propylbenzene	50.0	48.8	97.6	80-120	
Naphthalene	50.0	48.1	96.2	80-120	
o-Xylene	50.0	50.1	100	80-120	
sec-Butylbenzene	50.0	49.5	99.0	80-120	
Styrene	50.0	49.5	99.1	80-120	
tert-Butylbenzene	50.0	50.0	100	80-120	
Tetrachloroethene	50.0	50.7	101	80-120	
Toluene	50.0	52.7	105	80-120	
trans-1,2-Dichloroethene	50.0	49.6	99.3	80-120	
trans-1,3-Dichloropropene	50.0	46.7	93.5	80-120	
trans-1,4-Dichloro-2-butene	50.0	47.3	94.6	80-120	
Trichloroethene	50.0	52.2	104	80-120	
Trichlorofluoromethane	50.0	55.1	110	80-120	
Vinyl Acetate	100	95.7	95.7	80-120	
Vinyl Chloride	50.0	50.9	102	80-120	
Methyl Acrylate	50.0	47.3	94.6	80-120	
Ethyl Acrylate	50.0	51.7	103	80-120	
Butyl acrylate	50.0	50.0	99.9	80-120	
2-Ethylhexyl Acrylate	50.0	53.3	107	80-120	
Allyl alcohol	1000	976	97.6	80-120	
1,2-Dichloroethylene (total)	100	98.7	98.7	80-120	
Xylenes (total)	150	149	99.1	80-120	
1,4-Dioxane	1000	960	96.0	80-120	
Dibromofluoromethane	50.0	48.7	97.5	71-125	
1,2-Dichloroethane-d4	50.0	49.4	98.8	70-125	
Toluene-d8	50.0	48.4	96.7	75-125	
4-Bromofluorobenzene	50.0	49.4	98.9	72-125	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24061581

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/23/2024

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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24061581

Project Groundwater Treatment Plant Bi-Weekly Samples

RunID U070502.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U070502.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 05-JUL-2024 0915
ICAL Date(s) 02-JUL-2024, 02-JUL-2024
ICAL Times 10:08, 13:22
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	50.1	0.263	0.100	-0.282	20.0	Linear	
Chloromethane	50.0	40.0	0.517	0.100	20.0	20.0	Quadratic	
Propionitrile	0.043	0.037	0.037	0.010	14.6	20.0	Averaged	
Vinyl Chloride	0.335	0.331	0.331	0.100	1.26	20.0	Averaged	
Bromomethane	50.0	66.4	0.158	0.100	-32.720	20.0	Quadratic	*
Chloroethane	0.242	0.212	0.212	0.100	12.3	20.0	Averaged	
Trichlorofluoromethane	0.374	0.405	0.405	0.100	-8.106	20.0	Averaged	
Acrolein	100	82.7	0.011	0.010	17.3	20.0	Linear	
Acetone	100	81.8	0.081	0.100	18.2	20.0	Linear	*
1,1-Dichloroethene	0.227	0.222	0.222	0.100	2.26	20.0	Averaged	
Isobutyl Alcohol	0.042	0.039	0.039	0.005	7.29	20.0	Averaged	
Acetonitrile	500	429	0.026	0.005	14.3	20.0	Linear	
Allyl Chloride	0.751	0.603	0.603	0.100	19.8	20.0	Averaged	
Iodomethane	100	120	0.161	0.100	-19.806	20.0	Quadratic	
Acrylonitrile	100	86.7	0.085	0.050	13.3	20.0	Linear	
Methylene Chloride	50.0	45.5	0.294	0.100	8.99	20.0	Linear	
Methyl tert-butyl ether	0.733	0.600	0.600	0.100	18.2	20.0	Averaged	
Carbon Disulfide	0.645	0.636	0.636	0.100	1.40	20.0	Averaged	
trans-1,2-Dichloroethene	0.259	0.246	0.246	0.100	5.05	20.0	Averaged	
Vinyl Acetate	0.163	0.147	0.147	0.010	9.47	20.0	Averaged	
1,1-Dichloroethane	0.505	0.438	0.438	0.200	13.2	20.0	Averaged	
Chloroprene	0.383	0.367	0.367	0.100	4.14	20.0	Averaged	
2-Butanone	0.153	0.130	0.130	0.100	15.3	20.0	Averaged	
Methacrylonitrile	50.0	40.6	0.161	0.100	18.7	20.0	Linear	
2,2-Dichloropropane	50.0	49.0	0.373	0.100	2.09	20.0	Linear	
cis-1,2-Dichloroethene	0.322	0.293	0.293	0.100	9.04	20.0	Averaged	
Chloroform	0.547	0.495	0.495	0.200	9.54	20.0	Averaged	
Bromochloromethane	0.161	0.151	0.151	0.100	6.34	20.0	Averaged	
30 Dibromofluoromethane	50.0	55.1	0.367	0.100	-10.252	20.0	Quadratic	
1,1,1-Trichloroethane	50.0	46.3	0.402	0.100	7.41	20.0	Linear	
1,1-Dichloropropene	0.256	0.249	0.249	0.100	2.95	20.0	Averaged	
1,2-Dichloroethane	0.296	0.265	0.265	0.100	10.4	20.0	Averaged	
Carbon Tetrachloride	50.0	46.8	0.236	0.100	6.31	20.0	Linear	
35 1,2-Dichloroethane-d4	50.0	54.8	0.426	0.100	-9.530	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24061581

Project Groundwater Treatment Plant Bi-Weekly Samples

RunID U070502.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U070502.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 05-JUL-2024 0915
ICAL Date(s) 02-JUL-2024, 02-JUL-2024
ICAL Times 10:08, 13:22
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	0.863	0.768	0.768	0.500	11.0	20.0	Averaged	
Trichloroethene	0.206	0.202	0.202	0.200	1.98	20.0	Averaged	
Bromodichloromethane	0.256	0.246	0.246	0.200	3.72	20.0	Averaged	
Methyl Methacrylate	0.113	0.110	0.110	0.100	2.89	20.0	Averaged	
2-Chloroethylvinyl ether	100	81.6	0.005	0.001	18.4	20.0	Quadratic	
1,2-Dichloropropane	0.229	0.207	0.207	0.100	9.61	20.0	Averaged	
2-Nitropropane	0.623	0.555	0.555	0.000	10.9	20.0	Averaged	
Dibromomethane	0.133	0.121	0.121	0.100	9.32	20.0	Averaged	
4-Methyl-2-Pentanone	0.234	0.213	0.213	0.100	9.05	20.0	Averaged	
cis-1,3-Dichloropropene	50.0	44.7	0.289	0.200	10.6	20.0	Linear	
48 Toluene-d8	50.0	58.0	1.10	0.100	-16.089	20.0	Quadratic	
Ethyl Methacrylate	0.270	0.245	0.245	0.100	9.07	20.0	Averaged	
Toluene	0.927	0.919	0.919	0.400	0.921	20.0	Averaged	
trans-1,3-Dichloropropene	50.0	45.8	0.241	0.100	8.48	20.0	Linear	
2-Hexanone	100	96.6	0.137	0.100	3.43	20.0	Quadratic	
1,1,2-Trichloroethane	0.183	0.167	0.167	0.100	8.60	20.0	Averaged	
1,3-Dichloropropane	0.381	0.356	0.356	0.100	6.54	20.0	Averaged	
Dibromochloromethane	0.213	0.215	0.215	0.100	-0.721	20.0	Averaged	
Tetrachloroethene	50.0	49.0	0.184	0.200	2.06	20.0	Quadratic	*
1,2-Dibromoethane	0.199	0.199	0.199	0.100	0.249	20.0	Averaged	
1-Chlorohexane	50.0	48.0	0.150	0.100	4.07	20.0	Quadratic	
Chlorobenzene	0.636	0.583	0.583	0.500	8.23	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.209	0.204	0.204	0.100	2.45	20.0	Averaged	
Ethylbenzene	0.289	0.292	0.292	0.100	-1.037	20.0	Averaged	
m,p-Xylenes	100	94.2	0.373	0.100	5.77	20.0	Linear	
o-Xylene	50.0	47.4	0.369	0.300	5.24	20.0	Linear	
Styrene	50.0	45.1	0.595	0.300	9.83	20.0	Linear	
Bromoform	50.0	43.7	0.136	0.100	12.6	20.0	Linear	
Isopropylbenzene	50.0	46.4	0.924	0.100	7.17	20.0	Linear	
1,1,2,2-Tetrachloroethane	0.568	0.496	0.496	0.300	12.7	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	59.0	0.401	0.100	-18.081	20.0	Linear	
1,2,3-Trichloropropane	0.554	0.469	0.469	0.100	15.3	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	42.2	0.052	0.050	15.5	20.0	Quadratic	
n-Propylbenzene	50.0	44.6	1.87	0.100	10.8	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

RunID U070502.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U070502.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 05-JUL-2024 0915
ICAL Date(s) 02-JUL-2024, 02-JUL-2024
ICAL Times 10:08, 13:22
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.487	0.456	0.456	0.100	6.39	20.0	Averaged	
1,3,5-Trimethylbenzene	50.0	46.0	1.30	0.100	7.92	20.0	Quadratic	
2-Chlorotoluene	1.22	1.17	1.17	0.100	3.85	20.0	Averaged	
4-Chlorotoluene	1.38	1.36	1.36	0.100	1.82	20.0	Averaged	
tert-Butylbenzene	50.0	45.0	1.19	0.100	10.00	20.0	Linear	
1,2,4-Trimethylbenzene	50.0	43.1	1.23	0.100	13.8	20.0	Linear	
sec-Butylbenzene	50.0	44.7	1.60	0.100	10.5	20.0	Linear	
p-Isopropyltoluene	50.0	43.8	1.37	0.100	12.4	20.0	Linear	
1,3-Dichlorobenzene	0.951	0.813	0.813	0.600	14.5	20.0	Averaged	
1,4-Dichlorobenzene	0.951	0.813	0.813	0.400	14.5	20.0	Averaged	
Benzyl Chloride	50.0	53.7	0.289	0.010	-7.454	20.0	Quadratic	
n-Butylbenzene	50.0	45.0	1.25	0.500	9.96	20.0	Linear	
1,2-Dichlorobenzene	0.951	0.813	0.813	0.400	14.5	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	46.1	0.065	0.050	7.81	20.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	48.3	0.539	0.200	3.34	20.0	Quadratic	
Hexachlorobutadiene	50.0	46.8	0.260	0.100	6.50	20.0	Linear	
Naphthalene	50.0	42.5	1.15	0.200	14.9	20.0	Linear	
1,2,3-Trichlorobenzene	0.494	0.490	0.490	0.100	0.871	20.0	Averaged	
Methyl Acetate	0.250	0.218	0.218	0.100	12.9	20.0	Averaged	
Freon TF	50.0	48.7	0.232	0.100	2.61	20.0	Linear	
Cyclohexane	50.0	45.9	0.404	0.100	8.11	20.0	Linear	
Tetrahydrofuran	100	90.1	0.046	0.001	9.87	20.0	Linear	
Methylcyclohexane	0.465	0.453	0.453	0.100	2.51	20.0	Averaged	
1,4-Dioxane	1000	963	0.003	0.001	3.72	20.0	Linear	
n-Butanol	0.008	0.008	0.008	0.005	1.10	20.0	Averaged	
n-Hexane	50.0	50.1	0.284	0.100	-0.184	20.0	Linear	
Diethyl ether	50.0	42.8	0.169	0.100	14.4	20.0	Linear	
Tert-butyl alcohol	1000	910	0.021	0.005	8.99	20.0	Linear	
Isopropyl alcohol	1000	968	0.017	0.005	3.22	20.0	Quadratic	
Diisopropyl ether	50.0	41.7	0.733	0.100	16.6	20.0	Linear	
Butyl acrylate	50.0	45.1	0.363	0.100	9.73	20.0	Quadratic	
Dicyclopentadiene	50.0	44.6	1.63	0.100	10.7	20.0	Quadratic	
1,2,3-Trimethylbenzene	1.25	1.08	1.08	0.100	13.9	20.0	Averaged	
Ethanol	1000	1005	0.003	0.001	-0.522	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24061581

Project Groundwater Treatment Plant Bi-Weekly Samples

RunID U070502.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U070502.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 05-JUL-2024 0915
ICAL Date(s) 02-JUL-2024, 02-JUL-2024
ICAL Times 10:08, 13:22
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	0.230	0.194	0.194	0.100	15.7	20.0	Averaged	
4-Methyl-2-pentanol	0.052	0.051	0.051	0.005	2.88	20.0	Averaged	
1,3-Butadiene	50.0	47.6	0.322	0.100	4.70	20.0	Linear	
Epichlorohydrin	200	170	0.006	0.001	15.2	20.0	Quadratic	
94 1,2-Dichloroethylene (total	0.291	0.270	0.270	0.200	7.26	20.0	Averaged	
95 Xylenes (total)	150	++++	0.337	0.100	++++	20.0	Linear	*
alpha-Methylstyrene	50.0	44.3	0.452	0.100	11.4	20.0	Quadratic	
Ethyl Acetate	50.0	50.4	0.090	0.100	-0.858	20.0	Quadratic	*
Methyl Acrylate	0.356	0.304	0.304	0.100	14.7	20.0	Averaged	
n-Butyl acetate	0.360	0.342	0.342	0.100	5.16	20.0	Averaged	
Cyclohexanone	0.021	0.013	0.013	0.005	38.5	20.0	Averaged	*
Isoprene	50.0	45.4	0.052	0.010	9.25	20.0	Linear	
Isopropyl acetate	0.576	0.534	0.534	0.100	7.41	20.0	Averaged	
Allyl alcohol	1000	1002	0.014	0.004	-0.160	20.0	Linear	
Acetaldehyde	0.069	0.061	0.061	0.001	11.9	20.0	Averaged	
Dimethyl Disulfide	50.0	46.6	0.164	0.020	6.81	20.0	Quadratic	
Isobutylene	50.0	44.7	0.103	0.010	10.6	20.0	Linear	
Ethyl Acrylate	0.674	0.653	0.653	0.100	3.11	20.0	Averaged	
Butyl methacrylate	0.489	0.445	0.445	0.100	9.00	20.0	Averaged	
Propylene oxide	100	70.8	0.012	0.005	29.2	20.0	Quadratic	*
Ethylene oxide	0.239	0.200	0.200	0.010	16.5	20.0	Averaged	
2-Ethylhexyl Acrylate	50.0	46.8	0.409	0.100	6.39	20.0	Quadratic	
Tetrahydrothiophene	0.248	0.226	0.226	0.100	9.20	20.0	Averaged	
sec-Butyl Ether	0.453	0.394	0.394	0.100	13.0	20.0	Averaged	
n-Amyl acetate	0.384	0.374	0.374	0.100	2.65	20.0	Averaged	
2-Chloropropene	0.396	0.352	0.352	0.100	11.0	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

RunID U070530.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U070530.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 05-JUL-2024 1925
ICAL Date(s) 02-JUL-2024, 02-JUL-2024
ICAL Times 10:08, 13:22
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	47.2	0.248	0.100	5.58	50.0	Linear	
Chloromethane	50.0	42.0	0.540	0.100	16.1	50.0	Quadratic	
Propionitrile	0.043	0.042	0.042	0.010	2.90	50.0	Averaged	
Vinyl Chloride	0.335	0.327	0.327	0.100	2.49	50.0	Averaged	
Bromomethane	50.0	61.8	0.147	0.100	-23.675	50.0	Quadratic	
Chloroethane	0.242	0.202	0.202	0.100	16.5	50.0	Averaged	
Trichlorofluoromethane	0.374	0.397	0.397	0.100	-6.115	50.0	Averaged	
Acrolein	100	98.4	0.014	0.010	1.59	50.0	Linear	
Acetone	100	83.3	0.083	0.100	16.7	50.0	Linear	
1,1-Dichloroethene	0.227	0.221	0.221	0.100	2.62	50.0	Averaged	
Isobutyl Alcohol	0.042	0.040	0.040	0.005	5.03	50.0	Averaged	
Acetonitrile	500	438	0.026	0.005	12.4	50.0	Linear	
Allyl Chloride	0.751	0.615	0.615	0.100	18.2	50.0	Averaged	
Iodomethane	100	106	0.141	0.100	-6.399	50.0	Quadratic	
Acrylonitrile	100	96.6	0.094	0.050	3.43	50.0	Linear	
Methylene Chloride	50.0	43.5	0.283	0.100	13.0	50.0	Linear	
Methyl tert-butyl ether	0.733	0.648	0.648	0.100	11.6	50.0	Averaged	
Carbon Disulfide	0.645	0.619	0.619	0.100	4.04	50.0	Averaged	
trans-1,2-Dichloroethene	0.259	0.247	0.247	0.100	4.72	50.0	Averaged	
Vinyl Acetate	0.163	0.154	0.154	0.010	5.70	50.0	Averaged	
1,1-Dichloroethane	0.505	0.435	0.435	0.200	13.8	50.0	Averaged	
Chloroprene	0.383	0.356	0.356	0.100	6.83	50.0	Averaged	
2-Butanone	0.153	0.134	0.134	0.100	12.8	50.0	Averaged	
Methacrylonitrile	50.0	44.6	0.176	0.100	10.7	50.0	Linear	
2,2-Dichloropropane	50.0	44.5	0.339	0.100	10.9	50.0	Linear	
cis-1,2-Dichloroethene	0.322	0.312	0.312	0.100	3.26	50.0	Averaged	
Chloroform	0.547	0.513	0.513	0.200	6.30	50.0	Averaged	
Bromochloromethane	0.161	0.163	0.163	0.100	-0.849	50.0	Averaged	
30 Dibromofluoromethane	50.0	55.9	0.372	0.100	-11.789	50.0	Quadratic	
1,1,1-Trichloroethane	50.0	47.8	0.415	0.100	4.44	50.0	Linear	
1,1-Dichloropropene	0.256	0.261	0.261	0.100	-1.774	50.0	Averaged	
1,2-Dichloroethane	0.296	0.274	0.274	0.100	7.47	50.0	Averaged	
Carbon Tetrachloride	50.0	47.6	0.240	0.100	4.75	50.0	Linear	
35 1,2-Dichloroethane-d4	50.0	54.2	0.422	0.100	-8.431	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

RunID U070530.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U070530.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 05-JUL-2024 1925
ICAL Date(s) 02-JUL-2024, 02-JUL-2024
ICAL Times 10:08, 13:22
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	0.863	0.812	0.812	0.500	5.96	50.0	Averaged	
Trichloroethene	0.206	0.214	0.214	0.200	-3.885	50.0	Averaged	
Bromodichloromethane	0.256	0.257	0.257	0.200	-0.443	50.0	Averaged	
Methyl Methacrylate	0.113	0.105	0.105	0.100	6.54	50.0	Averaged	
2-Chloroethylvinyl ether	++++	++++	1.311e+64	0.001	++++	50.0	Quadratic	*
1,2-Dichloropropane	0.229	0.218	0.218	0.100	4.51	50.0	Averaged	
2-Nitropropane	0.623	0.581	0.581	0.000	6.67	50.0	Averaged	
Dibromomethane	0.133	0.131	0.131	0.100	1.47	50.0	Averaged	
4-Methyl-2-Pentanone	0.234	0.225	0.225	0.100	3.86	50.0	Averaged	
cis-1,3-Dichloropropene	50.0	45.6	0.295	0.200	8.76	50.0	Linear	
48 Toluene-d8	50.0	59.7	1.14	0.100	-19.341	50.0	Quadratic	
Ethyl Methacrylate	0.270	0.289	0.289	0.100	-7.046	50.0	Averaged	
Toluene	0.927	0.974	0.974	0.400	-5.011	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	46.3	0.244	0.100	7.48	50.0	Linear	
2-Hexanone	100	104	0.148	0.100	-4.325	50.0	Quadratic	
1,1,2-Trichloroethane	0.183	0.179	0.179	0.100	2.27	50.0	Averaged	
1,3-Dichloropropane	0.381	0.379	0.379	0.100	0.645	50.0	Averaged	
Dibromochloromethane	0.213	0.230	0.230	0.100	-7.978	50.0	Averaged	
Tetrachloroethene	50.0	52.1	0.195	0.200	-4.258	50.0	Quadratic	
1,2-Dibromoethane	0.199	0.213	0.213	0.100	-7.222	50.0	Averaged	
1-Chlorohexane	50.0	50.7	0.158	0.100	-1.432	50.0	Quadratic	
Chlorobenzene	0.636	0.628	0.628	0.500	1.15	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.209	0.218	0.218	0.100	-4.117	50.0	Averaged	
Ethylbenzene	0.289	0.314	0.314	0.100	-8.532	50.0	Averaged	
m,p-Xylenes	100	100	0.395	0.100	0.422	50.0	Linear	
o-Xylene	50.0	50.3	0.392	0.300	-0.690	50.0	Linear	
Styrene	50.0	48.1	0.636	0.300	3.88	50.0	Linear	
Bromoform	50.0	46.1	0.144	0.100	7.71	50.0	Linear	
Isopropylbenzene	50.0	50.1	0.998	0.100	-0.230	50.0	Linear	
1,1,2,2-Tetrachloroethane	0.568	0.528	0.528	0.300	7.03	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	61.5	0.418	0.100	-22.927	50.0	Linear	
1,2,3-Trichloropropane	0.554	0.506	0.506	0.100	8.64	50.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	43.8	0.054	0.050	12.5	50.0	Quadratic	
n-Propylbenzene	50.0	46.7	1.96	0.100	6.58	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

RunID U070530.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U070530.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 05-JUL-2024 1925
ICAL Date(s) 02-JUL-2024, 02-JUL-2024
ICAL Times 10:08, 13:22
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.487	0.484	0.484	0.100	0.761	50.0	Averaged	
1,3,5-Trimethylbenzene	50.0	47.9	1.36	0.100	4.23	50.0	Quadratic	
2-Chlorotoluene	1.22	1.24	1.24	0.100	-1.234	50.0	Averaged	
4-Chlorotoluene	1.38	1.41	1.41	0.100	-2.356	50.0	Averaged	
tert-Butylbenzene	50.0	48.1	1.28	0.100	3.71	50.0	Linear	
1,2,4-Trimethylbenzene	50.0	43.8	1.26	0.100	12.4	50.0	Linear	
sec-Butylbenzene	50.0	47.3	1.70	0.100	5.37	50.0	Linear	
p-Isopropyltoluene	50.0	45.8	1.43	0.100	8.50	50.0	Linear	
1,3-Dichlorobenzene	0.951	0.869	0.869	0.600	8.67	50.0	Averaged	
1,4-Dichlorobenzene	0.951	0.869	0.869	0.400	8.67	50.0	Averaged	
Benzyl Chloride	50.0	45.9	0.246	0.010	8.16	50.0	Quadratic	
n-Butylbenzene	50.0	45.0	1.25	0.500	10.0	50.0	Linear	
1,2-Dichlorobenzene	0.951	0.869	0.869	0.400	8.67	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	47.9	0.068	0.050	4.10	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	50.8	0.567	0.200	-1.516	50.0	Quadratic	
Hexachlorobutadiene	50.0	48.2	0.268	0.100	3.70	50.0	Linear	
Naphthalene	50.0	46.5	1.27	0.200	7.04	50.0	Linear	
1,2,3-Trichlorobenzene	0.494	0.539	0.539	0.100	-9.134	50.0	Averaged	
Methyl Acetate	0.250	0.212	0.212	0.100	15.2	50.0	Averaged	
Freon TF	50.0	47.3	0.225	0.100	5.47	50.0	Linear	
Cyclohexane	50.0	47.0	0.413	0.100	5.94	50.0	Linear	
Tetrahydrofuran	100	94.9	0.048	0.001	5.14	50.0	Linear	
Methylcyclohexane	0.465	0.494	0.494	0.100	-6.363	50.0	Averaged	
1,4-Dioxane	1000	965	0.003	0.001	3.48	50.0	Linear	
n-Butanol	0.008	0.008	0.008	0.005	0.591	50.0	Averaged	
n-Hexane	50.0	44.3	0.251	0.100	11.3	50.0	Linear	
Diethyl ether	50.0	45.6	0.180	0.100	8.81	50.0	Linear	
Tert-butyl alcohol	1000	946	0.022	0.005	5.40	50.0	Linear	
Isopropyl alcohol	1000	939	0.016	0.005	6.13	50.0	Quadratic	
Diisopropyl ether	50.0	43.9	0.771	0.100	12.3	50.0	Linear	
Butyl acrylate	50.0	50.1	0.405	0.100	-0.202	50.0	Quadratic	
Dicyclopentadiene	50.0	51.3	1.87	0.100	-2.597	50.0	Quadratic	
1,2,3-Trimethylbenzene	1.25	1.17	1.17	0.100	6.36	50.0	Averaged	
Ethanol	1000	955	0.003	0.001	4.55	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

RunID U070530.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U070530.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 05-JUL-2024 1925
ICAL Date(s) 02-JUL-2024, 02-JUL-2024
ICAL Times 10:08, 13:22
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	0.230	0.240	0.240	0.100	-4.083	50.0	Averaged	
4-Methyl-2-pentanol	0.052	0.055	0.055	0.005	-4.142	50.0	Averaged	
1,3-Butadiene	50.0	45.4	0.307	0.100	9.12	50.0	Linear	
Epichlorohydrin	200	189	0.007	0.001	5.34	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.291	0.279	0.279	0.200	3.91	50.0	Averaged	
95 Xylenes (total)	150	++++	0.356	0.100	++++	50.0	Linear	*
alpha-Methylstyrene	50.0	46.6	0.477	0.100	6.75	50.0	Quadratic	
Ethyl Acetate	++++	++++	1.311e+64	0.100	++++	50.0	Quadratic	*
Methyl Acrylate	0.356	0.342	0.342	0.100	3.95	50.0	Averaged	
n-Butyl acetate	0.360	0.358	0.358	0.100	0.633	50.0	Averaged	
Cyclohexanone	0.021	0.013	0.013	0.005	38.1	50.0	Averaged	
Isoprene	50.0	44.4	0.051	0.010	11.2	50.0	Linear	
Isopropyl acetate	0.576	0.546	0.546	0.100	5.34	50.0	Averaged	
Allyl alcohol	1000	886	0.013	0.004	11.4	50.0	Linear	
Acetaldehyde	0.069	0.118	0.118	0.001	-71.143	50.0	Averaged	
Dimethyl Disulfide	50.0	50.4	0.180	0.020	-0.734	50.0	Quadratic	
Isobutylene	++++	++++	1.311e+64	0.010	++++	50.0	Linear	*
Ethyl Acrylate	0.674	0.708	0.708	0.100	-4.988	50.0	Averaged	
Butyl methacrylate	0.489	0.478	0.478	0.100	2.27	50.0	Averaged	
Propylene oxide	100	89.4	0.014	0.005	10.6	50.0	Quadratic	
Ethylene oxide	0.239	++++	1.311e+64	0.010	++++	50.0	Averaged	*
2-Ethylhexyl Acrylate	50.0	48.6	0.427	0.100	2.71	50.0	Quadratic	
Tetrahydrothiophene	0.248	0.260	0.260	0.100	-4.535	50.0	Averaged	
sec-Butyl Ether	0.453	0.265	0.265	0.100	41.4	50.0	Averaged	
n-Amyl acetate	0.384	0.376	0.376	0.100	2.20	50.0	Averaged	
2-Chloropropene	0.396	0.467	0.467	0.100	-17.966	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24061581

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Bi-Weekly Samples

Workorder HS24061581

EPA SW8260

VOA9_471539		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	U070502.D	218664	#	4.82	#	315220	#	5.55	#	285487	#	8.19	#	159606	#	10.17	#
HS24061581-01	U070507.D	206372		4.82		304755		5.55		271948		8.19		140982		10.17	
HS24061581-02	U070514.D	198226		4.82		293650		5.55		265482		8.19		137933		10.17	
VBLKW-240705	U070506.D	206601		4.81		306611		5.55		275066		8.19		141645		10.17	
VLCSW-240705	U070504.D	214793		4.82		311858		5.55		280574		8.19		154711		10.17	
MS-ZZZZZZMS	U070528.D	200805		4.81		292877		5.55		262537		8.19		144293		10.17	
ZZZZZZMSD	U070529.D	203808		4.81		298771		5.55		268984		8.19		147023		10.17	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

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Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24061581

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

MSVOA09 -Logbook

Batch: 60630 **Analyst:** Tianna Smith

Date: 07-02-2024 **Reviewer:**

Method: 8260 **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	07-02-2024 09:47 am	1.00	0.00 mL	0.00 mL	U070201.D	Liquid	Y	NA
2	VSTD00.25	ICAL1	07-02-2024 10:08 am	1.00	5.00 mL	0.00 mL	U070202.D	Liquid	Y	NA
3	VSTD00.5	ICAL2	07-02-2024 10:30 am	1.00	5.00 mL	0.00 mL	U070203.D	Liquid	Y	NA
4	VSTD001	ICAL3	07-02-2024 10:51 am	1.00	5.00 mL	0.00 mL	U070204.D	Liquid	Y	NA
5	VSTD002	ICAL4	07-02-2024 11:13 am	1.00	5.00 mL	0.00 mL	U070205.D	Liquid	Y	NA
6	VSTD005	ICAL5	07-02-2024 11:34 am	1.00	5.00 mL	0.00 mL	U070206.D	Liquid	Y	NA
7	VSTD020	ICAL6	07-02-2024 11:56 am	1.00	5.00 mL	0.00 mL	U070207.D	Liquid	Y	NA
8	VSTD050	ICAL7	07-02-2024 12:17 pm	1.00	5.00 mL	0.00 mL	U070208.D	Liquid	Y	NA
9	VSTD100	ICAL8	07-02-2024 12:39 pm	1.00	5.00 mL	0.00 mL	U070209.D	Liquid	Y	NA
10	VSTD150	ICAL9	07-02-2024 01:00 pm	1.00	5.00 mL	0.00 mL	U070210.D	Liquid	Y	NA
11	VSTD200	ICAL	07-02-2024 01:22 pm	1.00	5.00 mL	0.00 mL	U070211.D	Liquid	Y	NA
12	BLK	SAMP	07-02-2024 01:43 pm	1.00	5.00 mL	0.00 mL	U070212.D	Liquid	Y	NA
13	BFB	TUNE	07-02-2024 02:05 pm	1.00	0.00 mL	0.00 mL	U070213.D	Liquid	Y	NA
14	VSTD050	CCV	07-02-2024 02:26 pm	1.00	5.00 mL	0.00 mL	U070214.D	Liquid	Y	NA
15	VSTD050	CCV/ICV	07-02-2024 02:48 pm	1.00	5.00 mL	0.00 mL	U070215.D	Liquid	Y	NA
16	VLCSW-240702	LCS	07-02-2024 03:09 pm	1.00	5.00 mL	0.00 mL	U070216.D	Liquid	Y	NA
17	VBLKM-240702	MBLK	07-02-2024 03:31 pm	50.00	5.00 mL	0.00 mL	U070217.D	Liquid	Y	NA
18	VBLKW-240702	MBLK	07-02-2024 03:52 pm	1.00	5.00 mL	0.00 mL	U070218.D	Liquid	Y	NA
19	HS24061568-05	SAMP	07-02-2024 04:14 pm	1.00	5.00 mL	0.00 mL	U070219.D	Liquid	Y	<2
20	HS24061568-03	SAMP	07-02-2024 04:35 pm	1.00	5.00 mL	0.00 mL	U070220.D	Liquid	Y	<2
21	HS24061568-04	SAMP	07-02-2024 04:57 pm	1.00	5.00 mL	0.00 mL	U070221.D	Liquid	Y	<2
22	HS24061755-05	SAMP	07-02-2024 05:18 pm	1.00	5.00 mL	0.00 mL	U070222.D	Liquid	Y	<2
23	HS24061755-06	SAMP	07-02-2024 05:40 pm	1.00	5.00 mL	0.00 mL	U070223.D	Liquid	Y	<2
24	HS24061573-01	SAMP	07-02-2024 06:01 pm	1.00	5.00 mL	0.00 mL	U070224.D	Liquid	Y	<2
25	HS24061360-01	SAMP	07-02-2024 06:25 pm	5.00	5.00 mL	0.00 mL	U070225.D	Liquid	Y	<2
	AS									
26	HS24061184-01	SAMP	07-02-2024 06:47 pm	100.0(	5.00 mL	0.00 mL	U070226.D	Liquid	Y	<2
	500 UL INTO 50 ML WATER									
27	HS24061184-02	SAMP	07-02-2024 07:08 pm	50.00	5.00 mL	0.00 mL	U070227.D	Liquid	Y	<2
	1 ml into 50 ml DI water									
28	HS24061236-01	SAMP	07-02-2024 07:30 pm	1.00	5.00 mL	0.00 mL	U070228.D	Liquid	Y	<2
29	HS24061236-04	SAMP	07-02-2024 07:51 pm	1.00	5.00 mL	0.00 mL	U070229.D	Liquid	Y	<2
30	HS24061236-07	SAMP	07-02-2024 08:12 pm	1.00	5.00 mL	0.00 mL	U070230.D	Liquid	Y	<2
31	HS24061236-03	SAMP	07-02-2024 08:34 pm	1.00	5.00 mL	0.00 mL	U070231.D	Liquid	Y	<2
32	HS24061236-05	SAMP	07-02-2024 08:55 pm	1.00	5.00 mL	0.00 mL	U070232.D	Liquid	Y	<2
33	HS24061236-06	SAMP	07-02-2024 09:17 pm	1.00	5.00 mL	0.00 mL	U070233.D	Liquid	Y	<2
34	HS24061395-01	SAMP	07-02-2024 09:38 pm	1.00	5.00 mL	0.00 mL	U070234.D	Liquid	Y	<2
35	HS24061395-02	SAMP	07-02-2024 10:00 pm	1.00	5.00 mL	0.00 mL	U070235.D	Liquid	Y	<2
36	HS24061395-03	SAMP	07-02-2024 10:21 pm	1.00	5.00 mL	0.00 mL	U070236.D	Liquid	Y	<2
37	HS24061395-04	SAMP	07-02-2024 10:42 pm	1.00	5.00 mL	0.00 mL	U070237.D	Liquid	Y	<2
38	HS24061184-02MS	MS	07-02-2024 11:04 pm	1.00	5.00 mL	0.00 mL	U070238.D	Liquid	Y	<2
39	HS24061184-02MSD	MSD	07-02-2024 11:25 pm	1.00	5.00 mL	0.00 mL	U070239.D	Liquid	Y	<2
40	HS24061236-02	SAMP	07-02-2024 11:47 pm	1.00	5.00 mL	0.00 mL	U070240.D	Liquid	Y	<2

MSVOA09 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
41	HS24061236-02MS	MS	07-03-2024 12:08 am	1.00	5.00 mL	0.00 mL	U070241.D	Liquid	Y	<2
42	HS24061236-02MSD	MSD	07-03-2024 12:30 am	1.00	5.00 mL	0.00 mL	U070242.D	Liquid	Y	<2
43	VSTD050	CCV	07-03-2024 12:51 am	1.00	5.00 mL	0.00 mL	U070243.D	Liquid	Y	<2
44	BLK	SAMP	07-03-2024 01:13 am	1.00	5.00 mL	0.00 mL	U070244.D	Liquid	Y	NA
45	BFB	TUNE	07-03-2024 01:34 am	1.00	0.00 mL	0.00 mL	V070201.D	Liquid	Y	NA
	Auto find/purged 1 uL BFB std									
46	VSTD050	CCV	07-03-2024 01:56 am	1.00	5.00 mL	0.00 mL	V070202.D	Liquid	Y	NA
	10 uL Cal std/50 ml DI									
47	dnr	LCS	07-03-2024 02:39 am	1.00	5.00 mL	0.00 mL	V070203.D	Liquid	Y	NA
48	VLCSW-240702	LCS	07-03-2024 03:00 am	1.00	5.00 mL	0.00 mL	V070204.D	Liquid	Y	NA
	4 uL ICV std/50 ml DI									
49	VBLKM-240702	MBLK	07-03-2024 03:22 am	50.00	5.00 mL	0.00 mL	V070205.D	Liquid	Y	NA
50	VBLKW-240702	MBLK	07-03-2024 03:43 am	1.00	5.00 mL	0.00 mL	V070206.D	Liquid	Y	NA
51	HS24061395-08	SAMP	07-03-2024 04:05 am	1.00	5.00 mL	0.00 mL	V070207.D	Liquid	Y	<2
52	HS24061395-05	SAMP	07-03-2024 04:26 am	1.00	5.00 mL	0.00 mL	V070208.D	Liquid	Y	<2
53	HS24061395-06	SAMP	07-03-2024 04:48 am	1.00	5.00 mL	0.00 mL	V070209.D	Liquid	Y	<2
54	HS24061395-07	SAMP	07-03-2024 05:12 am	25.00	5.00 mL	0.00 mL	V070210.D	Liquid	Y	<2
	AS									
55	HS24061271-09	SAMP	07-03-2024 05:34 am	10.00	5.00 mL	0.00 mL	V070211.D	Liquid	Y	<2
	AS									
56	HS24061271-10	SAMP	07-03-2024 05:55 am	500.0(	5.00 mL	0.00 mL	V070212.D	Liquid	Y	<2
	100 UL INTO 50 ML WATER									
57	HS24061605-08	SAMP	07-03-2024 06:17 am	1.00	5.00 mL	0.00 mL	V070213.D	Liquid	Y	<2
58	HS24061605-09	SAMP	07-03-2024 06:38 am	1.00	5.00 mL	0.00 mL	V070214.D	Liquid	Y	<2
59	HS24061605-10	SAMP	07-03-2024 06:59 am	1.00	5.00 mL	0.00 mL	V070215.D	Liquid	Y	<2
60	HS24061607-01	SAMP	07-03-2024 07:21 am	1.00	5.00 mL	0.00 mL	V070216.D	Liquid	Y	<2
61	HS24061607-02	SAMP	07-03-2024 07:42 am	1.00	5.00 mL	0.00 mL	V070217.D	Liquid	Y	<2
62	HS24061607-03	SAMP	07-03-2024 08:04 am	1.00	5.00 mL	0.00 mL	V070218.D	Liquid	Y	<2
63	HS24061607-04	SAMP	07-03-2024 08:25 am	1.00	5.00 mL	0.00 mL	V070219.D	Liquid	Y	<2
64	HS24061607-05	SAMP	07-03-2024 08:46 am	1.00	5.00 mL	0.00 mL	V070220.D	Liquid	Y	<2
65	HS24061607-06	SAMP	07-03-2024 09:08 am	1.00	5.00 mL	0.00 mL	V070221.D	Liquid	Y	<2
66	HS24060898-03	SAMP	07-03-2024 09:32 am	20.00	5.00 mL	0.00 mL	V070222.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
67	HS24060668-05	SAMP	07-03-2024 09:55 am	20.00	5.00 mL	0.00 mL	V070223.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
68	HS24060898-06	SAMP	07-03-2024 10:19 am	20.00	5.00 mL	0.00 mL	V070224.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
69	HS24061390-01	SAMP	07-03-2024 10:41 am	1.00	5.00 mL	0.00 mL	V070225.D	Liquid	Y	<2
70	HS24061414-01	SAMP	07-03-2024 11:02 am	1.00	5.00 mL	0.00 mL	V070226.D	Liquid	Y	<2
71	HS24061414-01MS	MS	07-03-2024 11:24 am	1.00	5.00 mL	0.00 mL	V070227.D	Liquid	Y	<2
72	HS24061414-01MSD	MSD	07-03-2024 11:45 am	1.00	5.00 mL	0.00 mL	V070228.D	Liquid	Y	<2
73	VSTD050	CCV	07-03-2024 12:07 pm	1.00	5.00 mL	0.00 mL	V070229.D	Liquid	Y	NA
	10 uL Cal std/50 ml DI									

MSVOA09 -Logbook

Batch: 60687 **Analyst:** Tianna Smith

Date: 07-05-2024 **Reviewer:**

Method: 8260 **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BFB	TUNE	07-05-2024 08:53 am	1.00	0.00 mL	0.00 mL	U070501.D	Liquid	Y	NA
	Auto find/purged 1 uL BFB std									
2	VSTD050	CCV	07-05-2024 09:15 am	1.00	5.00 mL	0.00 mL	U070502.D	Liquid	Y	NA
	10 uL Cal std/50 ml DI									
3	failed run dnr	LCS	07-05-2024 09:58 am	1.00	5.00 mL	0.00 mL	U070503.D	Liquid	Y	NA
4	VLCSW-240705	LCS	07-05-2024 10:19 am	1.00	5.00 mL	0.00 mL	U070504.D	Liquid	Y	NA
	4 uL ICV std/50 ml DI									
5	VBLKM-240705	MBLK	07-05-2024 10:41 am	1.00	5.00 mL	0.00 mL	U070505.D	Liquid	Y	NA
6	VBLKW-240705	MBLK	07-05-2024 11:02 am	1.00	5.00 mL	0.00 mL	U070506.D	Liquid	Y	<2
7	HS24061581-01	SAMP	07-05-2024 11:30 am	1.00	5.00 mL	0.00 mL	U070507.D	Liquid	Y	<2
8	HS24061534-02	SAMP	07-05-2024 11:51 am	1.00	5.00 mL	0.00 mL	U070508.D	Liquid	Y	<2
9	HS24061534-03	SAMP	07-05-2024 12:13 pm	1.00	5.00 mL	0.00 mL	U070509.D	Liquid	Y	<2
10	HS24061534-04	SAMP	07-05-2024 12:34 pm	1.00	5.00 mL	0.00 mL	U070510.D	Liquid	Y	<2
11	HS24061571-02	SAMP	07-05-2024 12:56 pm	1.00	5.00 mL	0.00 mL	U070511.D	Liquid	Y	<2
12	HS24061393-03	SAMP	07-05-2024 01:20 pm	50000.(	5.00 mL	0.00 mL	U070512.D	Liquid	Y	<2
	50 UL INTO 50 ML DI WATER---> 100 UL INTO 50 ML DI WATER									
13	HS24061390-01	SAMP	07-05-2024 01:41 pm	100.0(	5.00 mL	0.00 mL	U070513.D	Liquid	Y	<2
	500 UL INTO 50 ML WATER									
14	HS24061581-02	SAMP	07-05-2024 02:03 pm	1.00	5.00 mL	0.00 mL	U070514.D	Liquid	Y	<2
15	HS24061534-01	SAMP	07-05-2024 02:25 pm	1.00	5.00 mL	0.00 mL	U070515.D	Liquid	Y	<2
16	HS24061571-01	SAMP	07-05-2024 02:46 pm	1.00	5.00 mL	0.00 mL	U070516.D	Liquid	Y	<2
17	HS24061703-01	SAMP	07-05-2024 03:08 pm	1.00	5.00 mL	0.00 mL	U070517.D	Liquid	Y	<2
18	HS24061571-05	SAMP	07-05-2024 03:29 pm	1.00	5.00 mL	0.00 mL	U070518.D	Liquid	Y	<2
19	HS24061703-02	SAMP	07-05-2024 03:50 pm	1.00	5.00 mL	0.00 mL	U070519.D	Liquid	Y	<2
20	HS24061703-03	SAMP	07-05-2024 04:12 pm	1.00	5.00 mL	0.00 mL	U070520.D	Liquid	Y	<2
21	HS24061703-04	SAMP	07-05-2024 04:33 pm	1.00	5.00 mL	0.00 mL	U070521.D	Liquid	Y	<2
22	HS24061571-03	SAMP	07-05-2024 04:55 pm	1.00	5.00 mL	0.00 mL	U070522.D	Liquid	Y	<2
23	HS24061571-04	SAMP	07-05-2024 05:16 pm	1.00	5.00 mL	0.00 mL	U070523.D	Liquid	Y	<2
24	HS24070037-01	SAMP	07-05-2024 05:37 pm	1.00	5.00 mL	0.00 mL	U070524.D	Liquid	Y	<2
25	HS24070037-02	SAMP	07-05-2024 05:59 pm	1.00	5.00 mL	0.00 mL	U070525.D	Liquid	Y	<2
26	HS24061703-05	SAMP	07-05-2024 06:20 pm	1.00	5.00 mL	0.00 mL	U070527.D	Liquid	Y	<2
27	HS24061703-05MS	MS	07-05-2024 06:42 pm	1.00	5.00 mL	0.00 mL	U070528.D	Liquid	Y	<2
28	HS24061703-05MSD	MSD	07-05-2024 07:03 pm	1.00	5.00 mL	0.00 mL	U070529.D	Liquid	Y	<2
29	VSTD050	CCV	07-05-2024 07:25 pm	1.00	5.00 mL	0.00 mL	U070530.D	Liquid	Y	NA
	10 uL Cal std/50 ml DI									
30	BFB	TUNE	07-05-2024 07:46 pm	1.00	0.00 mL	0.00 mL	V070501.D	Liquid	Y	NA
31	VSTD050	CCV	07-05-2024 08:07 pm	1.00	5.00 mL	0.00 mL	V070502.D	Liquid	Y	NA
	10 uL Cal std/50 ml DI									
32	LCS-240705	LCS	07-05-2024 08:50 pm	1.00	5.00 mL	0.00 mL	V070503.D	Liquid	Y	NA
	4 uL ICV std/50 ml DI									
33	VLCSDW-240705	LCSD	07-05-2024 09:11 pm	1.00	5.00 mL	0.00 mL	V070504.D	Liquid	Y	NA
	4 uL ICV std/50 ml DI									
34	VBLKM-240705	MBLK	07-05-2024 09:33 pm	50.00	5.00 mL	0.00 mL	V070505.D	Liquid	Y	NA
35	VBLKW-240705	MBLK	07-05-2024 09:54 pm	1.00	5.00 mL	0.00 mL	V070506.D	Liquid	Y	NA
36	HS24061777-05	SAMP	07-05-2024 10:16 pm	1.00	5.00 mL	0.00 mL	V070507.D	Liquid	Y	<2

MSVOA09 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
37	HS24061777-06	SAMP	07-05-2024 10:37 pm	1.00	5.00 mL	0.00 mL	V070508.D	Liquid	Y	<2
38	HS24061777-07	SAMP	07-05-2024 10:58 pm	1.00	5.00 mL	0.00 mL	V070509.D	Liquid	Y	<2
39	MBLK-213957	MBLK	07-05-2024 11:22 pm	20.00	5.00 mL	0.00 mL	V070510.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
40	HS24061216-01	SAMP	07-05-2024 11:46 pm	20.00	5.00 mL	0.00 mL	V070511.D	Liquid	Y	<2
	2.5 ml into 50 ml DI water									
41	HS24061777-01	SAMP	07-06-2024 12:11 am	10.00	5.00 mL	0.00 mL	V070512.D	Liquid	Y	<2
	AS									
42	HS24061777-02	SAMP	07-06-2024 12:35 am	5.00	5.00 mL	0.00 mL	V070513.D	Liquid	Y	<2
	AS									
43	HS24061777-03	SAMP	07-06-2024 12:56 am	1.00	5.00 mL	0.00 mL	V070514.D	Liquid	Y	<2
44	HS24061777-04	SAMP	07-06-2024 01:18 am	1.00	5.00 mL	0.00 mL	V070515.D	Liquid	Y	<2
45	HS24061676-09	SAMP	07-06-2024 01:39 am	10.00	5.00 mL	0.00 mL	V070516.D	Liquid	Y	<2
	AS									
46	HS24061624-09	SAMP	07-06-2024 02:03 am	25.00	5.00 mL	0.00 mL	V070517.D	Liquid	Y	<2
	AS									
47	HS24070037-03	SAMP	07-06-2024 02:24 am	1.00	5.00 mL	0.00 mL	V070518.D	Liquid	Y	<2
48	HS24070076-02	SAMP	07-06-2024 02:48 am	5.00	5.00 mL	0.00 mL	V070519.D	Liquid	Y	<2
	AS									
49	HS24070076-03	SAMP	07-06-2024 03:12 am	5.00	5.00 mL	0.00 mL	V070520.D	Liquid	Y	<2
	AS									
50	HS24070076-08	SAMP	07-06-2024 03:37 am	10.00	5.00 mL	0.00 mL	V070521.D	Liquid	Y	<2
	AS									
51	HS24070076-10	SAMP	07-06-2024 04:01 am	10.00	5.00 mL	0.00 mL	V070522.D	Liquid	Y	<2
	AS									
52	HS24070076-18	SAMP	07-06-2024 04:25 am	10.00	5.00 mL	0.00 mL	V070523.D	Liquid	Y	<2
	AS									
53	HS24070076-05	SAMP	07-06-2024 04:47 am	100.0(	5.00 mL	0.00 mL	V070524.D	Liquid	Y	<2
	500 UL INTO 50 ML WATER									
54	HS24070076-19	SAMP	07-06-2024 05:08 am	500.0(	5.00 mL	0.00 mL	V070525.D	Liquid	Y	<2
	100 UL INTO 50 ML WATER									
55	HS24070076-20	SAMP	07-06-2024 05:30 am	500.0(	5.00 mL	0.00 mL	V070526.D	Liquid	Y	<2
	100 UL INTO 50 ML WATER									
56	HS24061391-01	SAMP	07-06-2024 05:54 am	20000.(	5.00 mL	0.00 mL	V070527.D	Liquid	Y	<2
	50 UL INTO 50 ML DI WATER---> 250 UL INTO 50 ML DI WATER									
57	VLCSDW-240705	LCSD	07-06-2024 06:16 am	1.00	5.00 mL	0.00 mL	V070528.D	Liquid	Y	NA
	FAILED RUN									
58	FAILED RUN DNR	LCSD	07-06-2024 06:37 am	1.00	5.00 mL	0.00 mL	V070529.D	Liquid	Y	NA
59	BLK	SAMP	07-06-2024 06:58 am	1.00	5.00 mL	0.00 mL	V070530.D	Liquid	Y	NA
	CLEAN UP BLK									
60	BLK	SAMP	07-06-2024 07:20 am	1.00	5.00 mL	0.00 mL	V070531.D	Liquid	Y	NA

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	**HS24061581**	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA9-471168

Run ID VOA9_471168 **Start Date** 07/02/24 **EndDate** 07/02/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:08	VSTD00.25	ICAL1	VSTD00.25	U070202.D	07/02/24	1
10:30	VSTD00.5	ICAL2	VSTD00.5	U070203.D	07/02/24	1
10:51	VSTD001	ICAL3	VSTD001	U070204.D	07/02/24	1
11:13	VSTD002	ICAL4	VSTD002	U070205.D	07/02/24	1
11:34	VSTD005	ICAL5	VSTD005	U070206.D	07/02/24	1
11:56	VSTD020	ICAL6	VSTD020	U070207.D	07/02/24	1
12:17	VSTD050	ICAL7	VSTD050	U070208.D	07/02/24	1
12:39	VSTD100	ICAL8	VSTD100	U070209.D	07/02/24	1
13:00	VSTD150	ICAL9	VSTD150	U070210.D	07/02/24	1
13:22	VSTD200	ICAL	VSTD200	U070211.D	07/02/24	1
14:48	VSTD050	ICV	VSTD050	U070215.D	07/02/24	1

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Groundwater Treatment Plant Bi-Weekly Samples	**HS24061581**	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA9-471539

Run ID VOA9_471539 **Start Date** 07/05/24 **EndDate** 07/05/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:15	VSTD050	CCV	VSTD050	U070502.D	07/05/24	1
10:19	VLCSW-240705	LCS	VLCSW-240705	U070504.D	07/05/24	1
11:02	VBLKW-240705	MBLK	VBLKW-240705	U070506.D	07/05/24	1
11:30	HS24061581-01	SAMP	LH18/24-	U070507.D	07/05/24	1
11:51	HS24061534-02	SAMP	ZZZZZZZZZZ	U070508.D	07/05/24	1
12:13	HS24061534-03	SAMP	ZZZZZZZZZZ	U070509.D	07/05/24	1
12:34	HS24061534-04	SAMP	ZZZZZZZZZZ	U070510.D	07/05/24	1
12:56	HS24061571-02	SAMP	ZZZZZZZZZZ	U070511.D	07/05/24	1
14:03	HS24061581-02	SAMP	Trip Blank	U070514.D	07/05/24	1
14:25	HS24061534-01	SAMP	ZZZZZZZZZZ	U070515.D	07/05/24	1
14:46	HS24061571-01	SAMP	ZZZZZZZZZZ	U070516.D	07/05/24	1
15:08	HS24061703-01	SAMP	ZZZZZZZZZZ	U070517.D	07/05/24	1
15:29	HS24061571-05	SAMP	ZZZZZZZZZZ	U070518.D	07/05/24	1
15:50	HS24061703-02	SAMP	ZZZZZZZZZZ	U070519.D	07/05/24	1
16:12	HS24061703-03	SAMP	ZZZZZZZZZZ	U070520.D	07/05/24	1
16:33	HS24061703-04	SAMP	ZZZZZZZZZZ	U070521.D	07/05/24	1
16:55	HS24061571-03	SAMP	ZZZZZZZZZZ	U070522.D	07/05/24	1
17:16	HS24061571-04	SAMP	ZZZZZZZZZZ	U070523.D	07/05/24	1
18:20	HS24061703-05	SAMP	ZZZZZZZZZZ	U070527.D	07/05/24	1
18:42	HS24061703-05MS	MS	ZZZZZZMS	U070528.D	07/05/24	1
19:03	HS24061703-05MSD	MSD	ZZZZZZMSD	U070529.D	07/05/24	1
19:25	VSTD050	CCV_END	VSTD050	U070530.D	07/05/24	1

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24061581

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant Bi-Weekly Samples

07/23/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240702.b\U070201.D Page 1
Report Date: 03-Jul-2024 09:17

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240702.b\U070201.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 02-JUL-2024 09:47
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240702.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)	TARGET RANGE	RATIO
RT	EXP RT	REL RT	MASS	RESPONSE				
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	62144			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	12168			15.00- 40.00	19.58
9.194	9.180	(0.000)	75	31296			30.00- 60.00	50.36
9.194	9.180	(0.000)	96	4293			5.00- 9.00	6.91
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	50792			50.00- 0.00	81.73
9.194	9.180	(0.000)	175	4424			5.00- 9.00	8.71
9.194	9.180	(0.000)	176	49088			95.00- 101.00	96.65
9.194	9.180	(0.000)	177	3290			5.00- 9.00	6.70

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070202.D Page 1
Report Date: 10-Jul-2024 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070202.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 02-JUL-2024 10:08
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240702.b\8260C.m
Meth Date : 10-Jul-2024 09:57 VOA9.i Quant Type: ISTD
Cal Date : 02-JUL-2024 10:08 Cal File: U070202.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

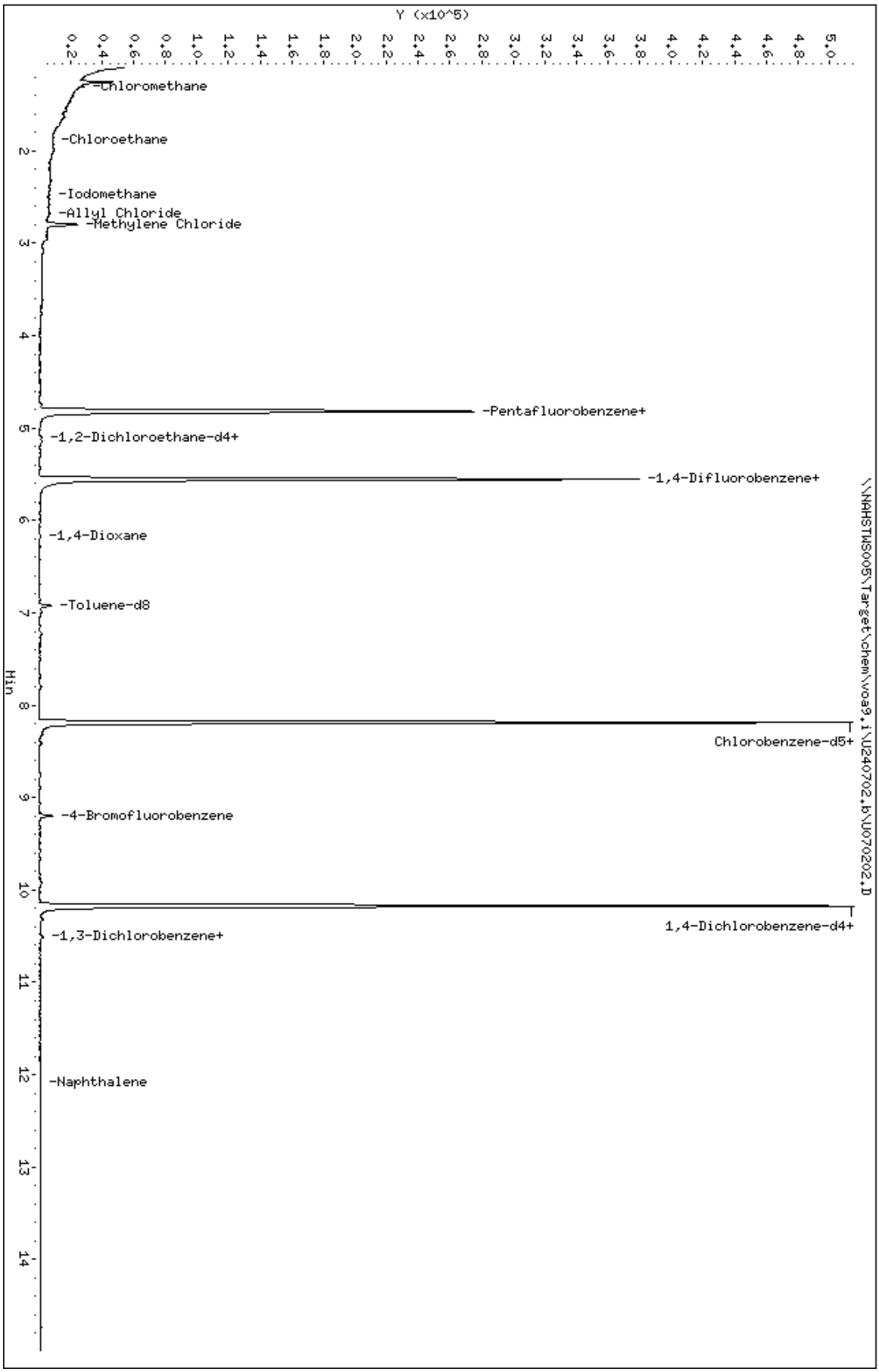
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.819	4.819	(1.000)	199680	50.0000	
	2 Dichlorodifluoromethane	85	1.010	1.010	(0.210)	8870	0.25000	8.33
	3 Chloromethane	50	1.302	1.302	(0.270)	2389	0.25000	0.23(a)
	5 Vinyl Chloride	62	1.025	1.025	(0.213)	10759	0.25000	8.04
	7 Chloroethane	64	1.884	1.884	(0.391)	631	0.25000	0.65
	14 Allyl Chloride	41	2.678	2.678	(0.556)	981	0.25000	0.32(a)
	15 Iodomethane	142	2.476	2.476	(0.514)	772	0.50000	2.08(T)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	798	0.25000	0.44(a)
	33 1,2-Dichloroethane	62	4.815	4.815	(0.867)	724	0.25000	0.40(a)
	34 Carbon Tetrachloride	117	4.819	4.819	(0.868)	18420	0.25000	13.15
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	1148	50.0000	0.45(Ta)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	300815	50.0000	
	37 Benzene	78	5.145	5.145	(0.926)	1513	0.25000	0.29(Ta)
	42 1,2-Dichloropropane	63	5.554	5.554	(1.000)	61873	0.25000	44.98
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	269189	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	4887	50.0000	1.05(Ta)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	2814	50.0000	1.56(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	133238	50.0000	
	83 1,3-Dichlorobenzene	146	10.513	10.513	(1.034)	703	0.25000	0.27(a)
	84 1,4-Dichlorobenzene	146	10.513	10.513	(1.034)	703	0.25000	0.27(a)

88 1,2-Dichlorobenzene	146	10.513	10.513 (1.034)	703	0.25000	0.27(a)
92 Naphthalene	128	12.087	12.087 (1.188)	855	0.25000	2.98(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
141 Cyclohexane	56	4.815	4.815	(0.999)	3836	0.25000	0.80(a)
135 1,4-Dioxane	88	6.180	6.180	(1.282)	157	5.00000	16.79(aM)
166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	632	0.25000	0.18(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240702,b\U070202,D
Date : 02-JUL-2024 10:08
Client ID: VSTD00,25
Sample Info: VSTD00,25;VSTD00,25;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

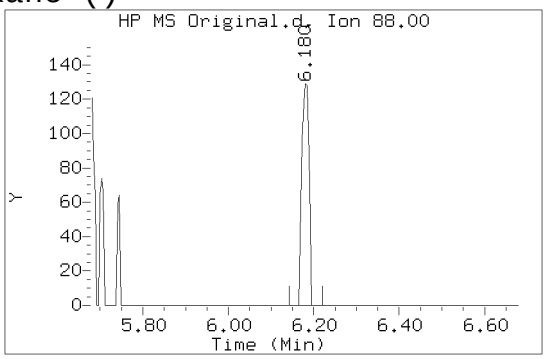
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Inj Date : 02-JUL-2024 10:08
InstruID : VOA9.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

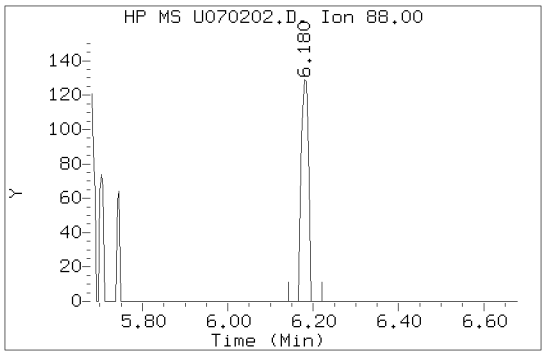
BEFORE

MASS
88
AREA
157
HEIGHT
129
10-Jul-2024
08:51
RUCHA
PATEL



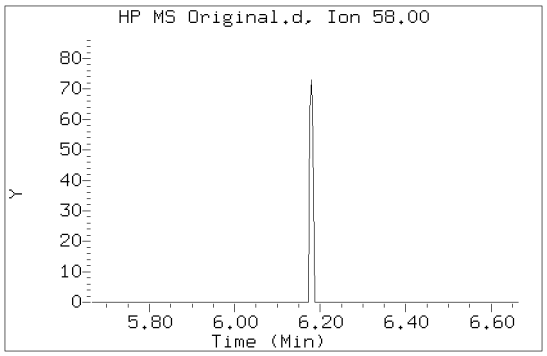
AFTER

MASS
88
AREA
157
HEIGHT
129
10-Jul-2024
09:57
RUCHA
PATEL



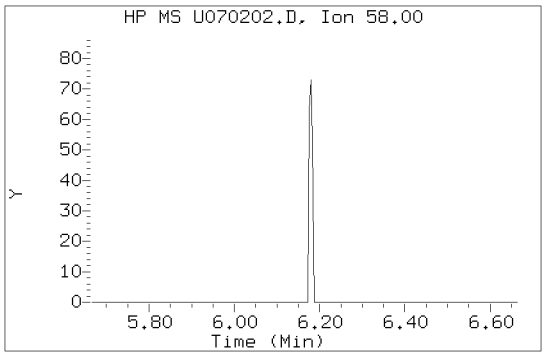
BEFORE

MASS
58
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D Page 1
Report Date: 10-Jul-2024 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 02-JUL-2024 10:30
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240702.b\8260C.m
Meth Date : 10-Jul-2024 09:57 VOA9.i Quant Type: ISTD
Cal Date : 02-JUL-2024 10:08 Cal File: U070202.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.819	(1.000)	193826	50.0000	
3 Chloromethane	50	1.302	1.302	(0.270)	3112	0.50000	0.54(M)
4 Propionitrile	54	4.346	4.346	(0.902)	1001	5.00000	6.04(aM)
5 Vinyl Chloride	62	1.385	1.385	(0.287)	479	0.50000	0.36(aM)
6 Bromomethane	94	1.629	1.629	(0.338)	568	0.50000	0.16(aM)
7 Chloroethane	64	1.707	1.707	(0.354)	491	0.50000	0.52(M)
8 Trichlorofluoromethane	101	1.902	1.902	(0.395)	322	0.50000	0.22(aM)
9 Acrolein	56	2.232	2.232	(0.463)	24	1.00000	2.51(aM)
12 Isobutyl Alcohol	43	5.291	5.291	(1.098)	1490	10.0000	9.23(Ta)
13 Acetonitrile	39	2.675	2.675	(0.555)	876	5.00000	8.24(aM)
14 Allyl Chloride	41	2.678	2.678	(0.556)	1899	0.50000	0.65(a)
15 Iodomethane	142	2.472	2.472	(0.513)	1040	1.00000	2.72(T)
17 Methylene Chloride	84	2.798	2.798	(0.581)	8798	0.50000	0.60
18 Methyl tert-butyl ether	73	3.087	3.087	(0.641)	1818	0.50000	0.63(M)
19 Carbon Disulfide	76	2.521	2.521	(0.523)	2198	1.00000	0.87(M)
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	410	0.50000	0.40(aM)
21 Vinyl Acetate	43	4.361	4.361	(0.905)	767	1.00000	1.21(M)
22 1,1-Dichloroethane	63	3.514	3.514	(0.729)	1095	0.50000	0.55(M)
23 Chloroprene	53	3.619	3.619	(0.751)	587	0.50000	0.39(aM)
24 2-Butanone	43	4.275	4.275	(0.887)	759	1.00000	1.27(M)

25 Methacrylonitrile	41	4.500	4.500 (0.934)	926	0.50000	0.83(aM)
26 2,2-Dichloropropane	77	4.189	4.189 (0.869)	460	0.50000	1.56(M)

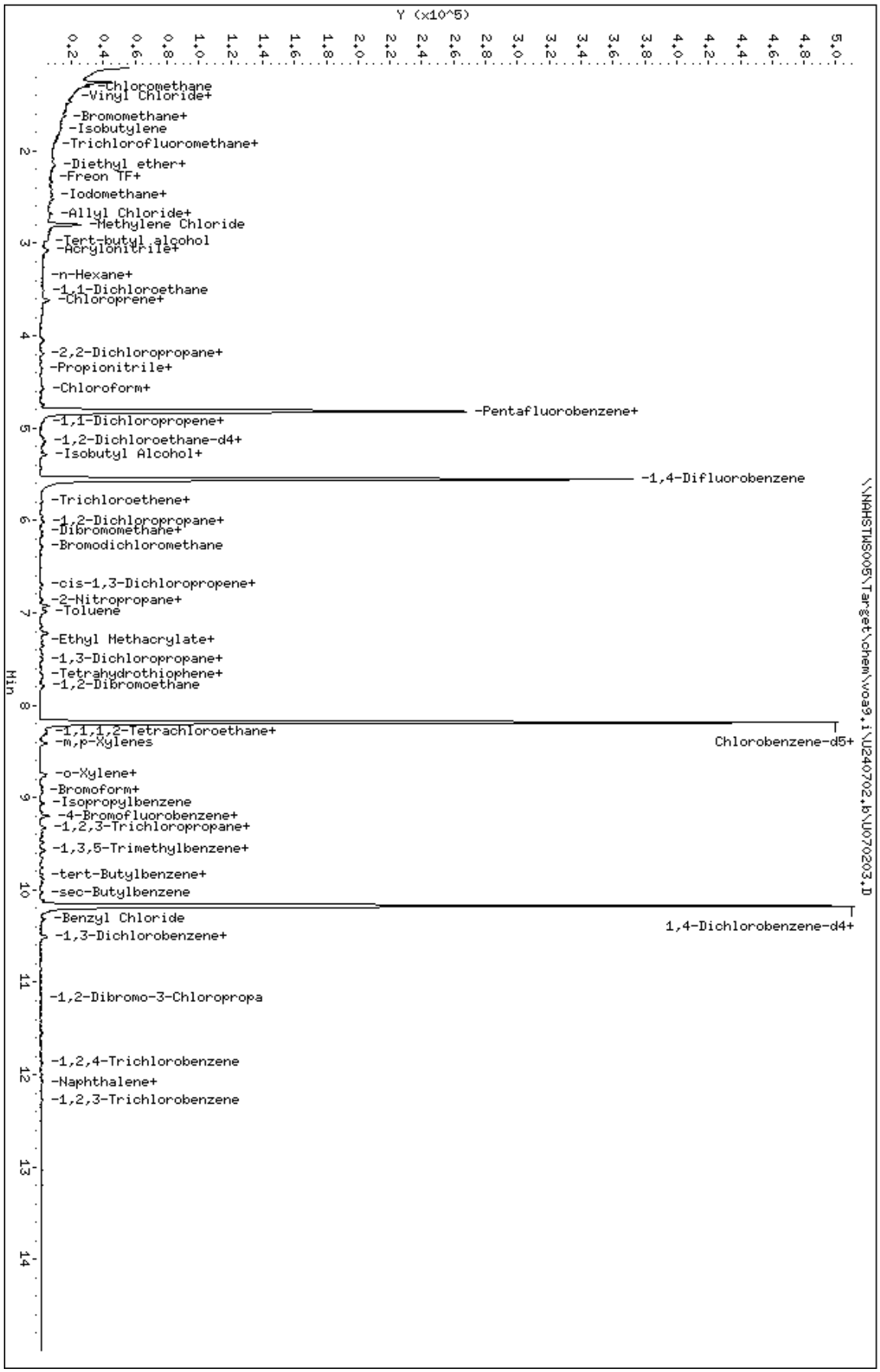
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
27	cis-1,2-Dichloroethene	96	4.204	4.204	(0.872)	584	0.50000	0.46(aM)
28	Chloroform	83	4.575	4.575	(0.949)	1135	0.50000	0.53
29	Bromochloromethane	128	4.481	4.481	(0.930)	279	0.50000	0.44(aM)
$ 30	Dibromofluoromethane	113	4.751	4.751	(0.986)	1002	0.50000	0.63
31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	595	0.50000	1.11(M)
32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	637	0.50000	0.42(a)
33	1,2-Dichloroethane	62	5.179	5.179	(0.933)	907	0.50000	0.51(M)
34	Carbon Tetrachloride	117	4.912	4.912	(0.885)	492	0.50000	1.65(M)
$ 35	1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	1423	0.50000	0.67(T)
* 36	1,4-Difluorobenzene	114	5.553	5.553	(1.000)	295924	50.0000	
37	Benzene	78	5.141	5.141	(0.926)	2868	0.50000	0.56
38	Trichloroethene	130	5.793	5.793	(1.043)	462	0.50000	0.37(aM)
39	Bromodichloromethane	83	6.281	6.281	(1.131)	757	0.50000	0.49(aM)
40	Methyl Methacrylate	41	5.846	5.846	(1.213)	306	0.50000	0.69(aM)
42	1,2-Dichloropropane	63	6.011	6.011	(1.082)	704	0.50000	0.52(aM)
43	2-Nitropropane	43	6.862	6.862	(1.424)	1347	0.50000	0.55(a)
44	Dibromomethane	93	6.120	6.120	(1.102)	458	0.50000	0.58(aM)
45	4-Methyl-2-Pentanone	43	6.862	6.862	(0.838)	1347	1.00000	1.08(aM)
46	cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	803	0.50000	2.33(aM)
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	265881	50.0000	
$ 48	Toluene-d8	98	6.926	6.926	(0.846)	3623	0.50000	0.79(Ta)
49	Ethyl Methacrylate	69	7.297	7.297	(1.314)	719	0.50000	0.45(a)
50	Toluene	91	6.982	6.982	(0.853)	2070	0.50000	0.41(a)
51	trans-1,3-Dichloropropene	75	7.203	7.203	(1.297)	567	0.50000	2.58(aM)
53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	441	0.50000	0.45(aM)
54	1,3-Dichloropropane	76	7.503	7.503	(0.917)	1016	0.50000	0.50(aM)
55	Dibromochloromethane	129	7.698	7.698	(0.940)	534	0.50000	0.47(aM)
56	Tetrachloroethene	164	7.454	7.454	(0.911)	292	0.50000	0.15(aM)
57	1,2-Dibromoethane	107	7.788	7.788	(0.951)	488	0.50000	0.46(aM)
58	1-Chlorohexane	55	8.185	8.185	(1.474)	3059	0.50000	0.45(a)
59	Chlorobenzene	112	8.208	8.208	(1.003)	1788	0.50000	0.52(a)
60	1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	496	0.50000	0.44(aM)
61	Ethylbenzene	106	8.313	8.313	(1.016)	544	0.50000	0.35(aM)
62	m,p-Xylenes	106	8.410	8.410	(1.027)	1227	1.00000	2.09(a)
63	o-Xylene	106	8.747	8.747	(1.069)	770	0.50000	1.05(a)
64	Styrene	104	8.770	8.770	(1.071)	1091	0.50000	1.64(aM)
66	Bromoform	173	8.920	8.920	(1.090)	312	0.50000	3.43(aM)
67	Isopropylbenzene	105	9.062	9.062	(1.107)	1461	0.50000	1.04(aM)
68	1,1,2,2-Tetrachloroethane	83	9.332	9.332	(0.917)	733	0.50000	0.48(aM)
$ 69	4-Bromofluorobenzene	95	9.197	9.197	(1.124)	1892	0.50000	1.07(a)
* 70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	133458	50.0000	
71	1,2,3-Trichloropropane	75	9.366	9.366	(0.921)	805	0.50000	0.54(a)
72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	76	0.50000	1.32(aM)
73	n-Propylbenzene	91	9.415	9.415	(0.926)	1572	0.50000	1.98(a)
74	Bromobenzene	156	9.321	9.321	(0.916)	624	0.50000	0.47(a)
75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	1140	0.50000	1.32(a)
76	2-Chlorotoluene	91	9.486	9.486	(0.933)	1431	0.50000	0.43(aM)
77	4-Chlorotoluene	91	9.580	9.580	(0.942)	1665	0.50000	0.45(aM)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	943	0.50000	1.05(Ta)
79	1,2,4-Trimethylbenzene	105	9.883	9.883	(0.972)	1212	0.50000	2.80(a)
81	sec-Butylbenzene	105	10.026	10.026	(0.986)	1204	0.50000	1.55(aM)
82	p-Isopropyltoluene	119	10.149	10.149	(0.998)	1011	0.50000	2.76(aM)

83 1,3-Dichlorobenzene	146	10.509	10.509 (1.033)	1647	0.50000	0.64(a)
84 1,4-Dichlorobenzene	146	10.509	10.509 (1.033)	1647	0.50000	0.64(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	86 Benzyl Chloride	91	10.314	10.314	(1.260)	2147	0.50000	1.19(aM)
	87 n-Butylbenzene	91	10.498	10.498	(1.032)	1121	0.50000	2.25(aM)
	88 1,2-Dichlorobenzene	146	10.509	10.509	(1.033)	1647	0.50000	0.64(a)
	89 1,2-Dibromo-3-Chloropropane	155	11.173	11.173	(1.098)	11	0.50000	0.60(aM)
	90 1,2,4-Trichlorobenzene	180	11.866	11.866	(1.167)	546	0.50000	0.75(aM)
	91 Hexachlorobutadiene	225	12.001	12.001	(1.180)	206	0.50000	1.62(aM)
	92 Naphthalene	128	12.080	12.080	(1.188)	1386	0.50000	3.11(a)
	93 1,2,3-Trichlorobenzene	180	12.279	12.279	(1.207)	563	0.50000	0.42(aM)
	146 Methyl acetate	43	2.716	2.716	(0.564)	1030	0.50000	1.06(aM)
	138 Freon TF	101	2.337	2.337	(0.485)	165	0.50000	0.60(aM)
	141 Cyclohexane	56	4.815	4.815	(0.999)	3806	0.50000	0.85(a)
	135 1,4-Dioxane	88	6.172	6.172	(1.281)	140	10.0000	15.83(aM)
	132 n-Butanol	56	5.842	5.842	(1.212)	351	10.0000	11.63(aM)
	136 n-Hexane	57	3.346	3.346	(0.694)	267	0.50000	0.61(TaM)
	139 Diethyl ether	59	2.153	2.153	(0.447)	576	0.50000	1.11(aM)
	148 Tert-butyl alcohol	59	2.971	2.971	(0.617)	1195	10.0000	21.69(M)
	149 Isopropyl alcohol	45	2.570	2.570	(0.533)	884	10.0000	5.90(T)
	156 Diisopropyl ether	45	3.623	3.623	(0.752)	2543	0.50000	0.76(aM)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	1997	0.50000	0.59(a)
	167 Ethanol	45	2.086	2.086	(0.433)	210	10.0000	10.38(M)
	172 tert-Butyl formate	59	5.246	5.246	(1.089)	1060	1.00000	1.18(aM)
	151 4-Methyl-2-pentanol	45	7.222	7.222	(1.300)	2916	10.0000	9.39(M)
	140 1,3-Butadiene	54	1.411	1.411	(0.293)	312	0.50000	0.47(aM)
	182 Epichlorohydrin	57	6.637	6.637	(1.195)	41	2.00000	8.11(M)
M	94 1,2-Dichloroethylene (total)	96				994	1.00000	(a)
	130 Ethyl Acetate	43	4.545	4.545	(0.943)	455	0.50000	(aM)
	131 Methyl Acrylate	55	4.380	4.380	(0.909)	799	0.50000	0.57(aM)
	134 Cyclohexanone	55	9.156	9.156	(0.900)	535	10.0000	9.76(aM)
	185 Isoprene	39	2.116	2.116	(0.439)	47	0.50000	(aM)
	188 Isopropyl acetate	43	5.291	5.291	(0.953)	1810	0.50000	0.53(aM)
	150 Allyl alcohol	57	3.346	3.346	(0.694)	253	10.0000	11.59(M)
	200 Dimethyl Disulfide	94	6.738	6.738	(0.823)	212	0.50000	1.59(aM)
	203 2-Ethylhexyl Acrylate	55	12.054	12.054	(1.185)	558	0.50000	1.57(aM)
	204 Tetrahydrothiophene	60	7.672	7.672	(0.937)	752	0.50000	0.56(aA)
	205 sec-Butyl Ether	57	7.222	7.222	(0.882)	1117	0.50000	0.46(aAM)
	187 n-Amyl acetate	43	8.935	8.935	(1.092)	1010	0.50000	0.49(aM)
	206 2-Chloropropene	41	1.932	1.932	(0.401)	641	0.50000	0.41(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.


Y (x10^5)
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0
-Chloromethane
-Vinyl Chloride+
-Bromomethane+
-Isobutylene
-Trichlorofluoromethane+
-Diethyl ether+
-Freon TF+
-Iodomethane+
-Allyl Chloride+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-2,2-Dichloropropane+
-Propionitrile+
-Chloroform+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-1,2-Dichloropropane+
-Dibromomethane+
-Bromodichloromethane
-cis-1,3-Dichloropropene+
-2-Nitropropane+
-Toluene
-Ethyl Methacrylate+
-1,3-Dichloropropane+
-Tetrahydrothiophene+
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-1,2,3-Trichloropropane+
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
1,4-Dichlorobenzene-d4+
-1,3-Dichlorobenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Naphthalene+
-1,2,3-Trichlorobenzene
Min
2 3 4 5 6 7 8 9 10 11 12 13 14
\\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
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Sample Info: VSTD00.5;VSTD00.5;1;2
Purge Volume: 5.0
Column phase: DB624
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18
Page 1

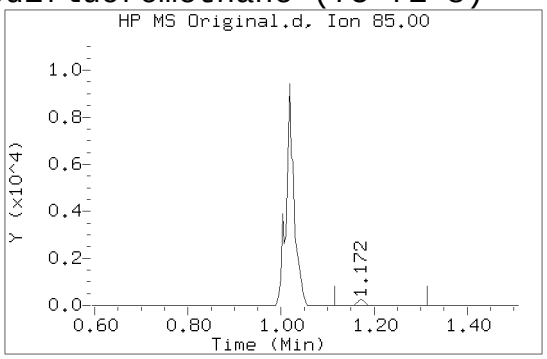
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InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

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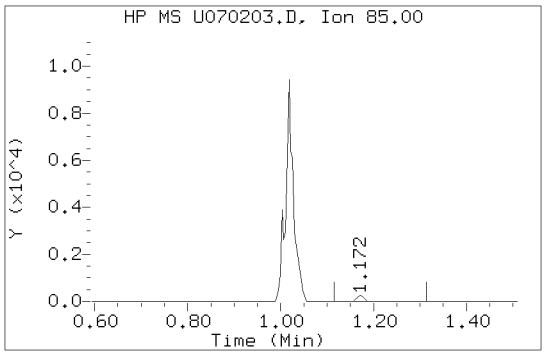
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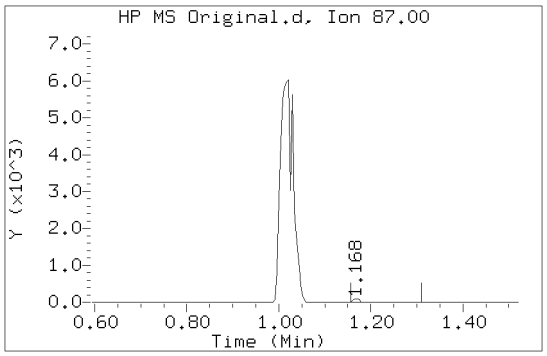
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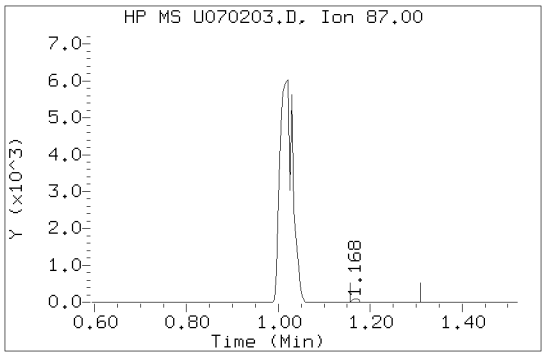
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AFTER

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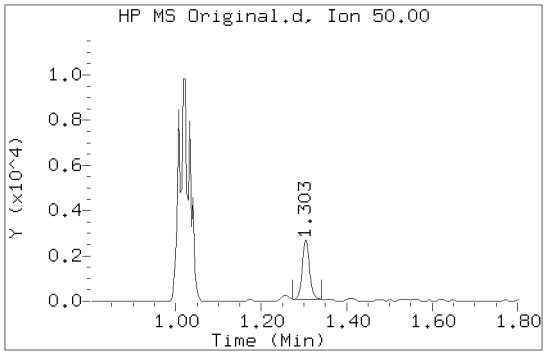


Chloromethane (74-87-3)

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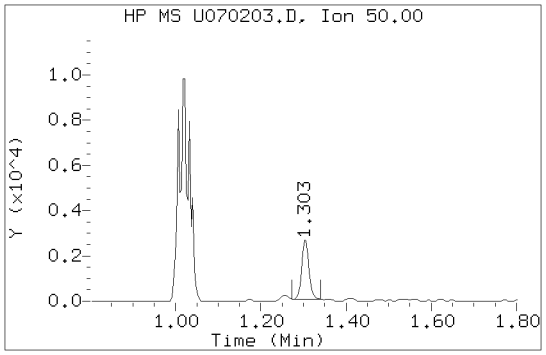
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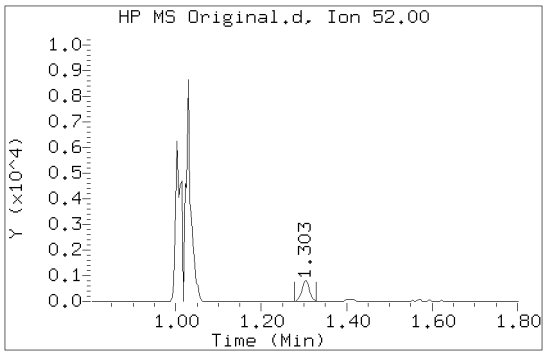
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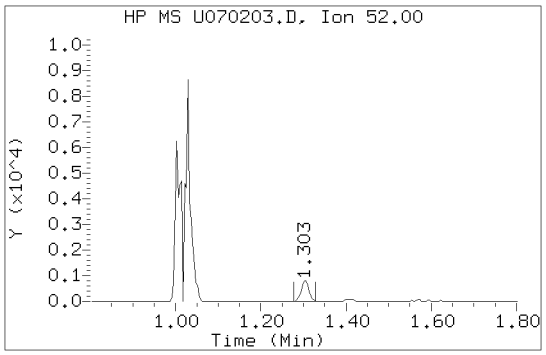
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AFTER

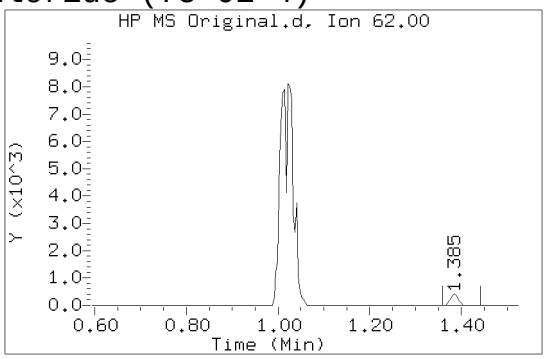
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LabSampID : VSTD00.5

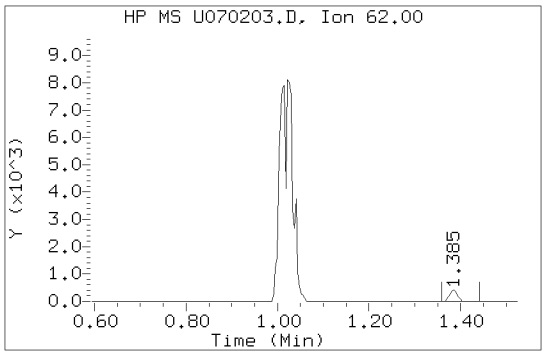
Vinyl Chloride (75-01-4)

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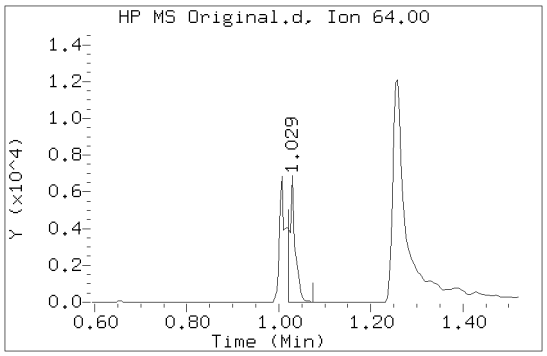


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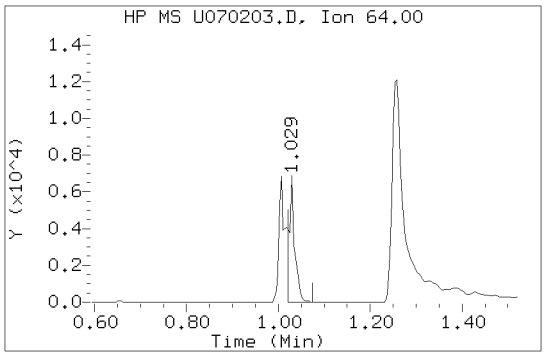
AFTER
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10-Jul-2024
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BEFORE
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HEIGHT
6877
10-Jul-2024
08:51
RUCHA
PATEL

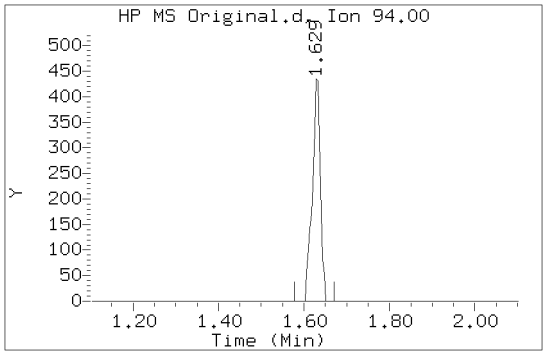


AFTER
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10-Jul-2024
09:57
RUCHA
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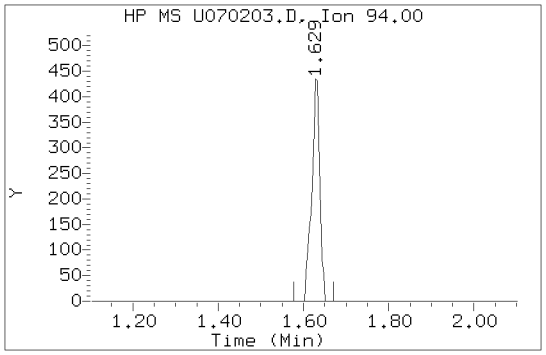
Bromomethane (74-83-9)

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PATEL

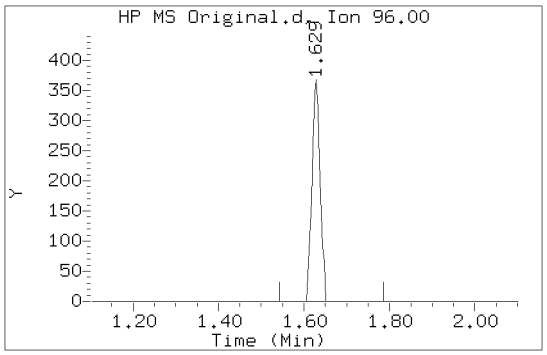


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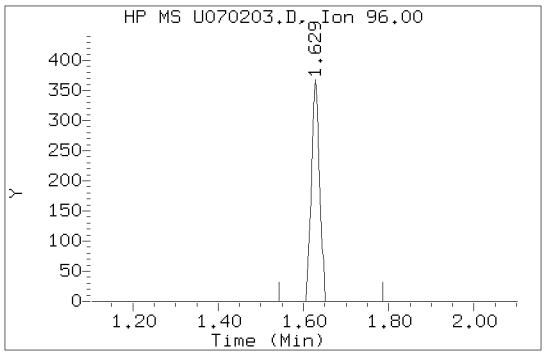
AFTER
MASS
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HEIGHT
435
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
96
AREA
487
HEIGHT
368
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
96
AREA
487
HEIGHT
368
10-Jul-2024
09:57
RUCHA
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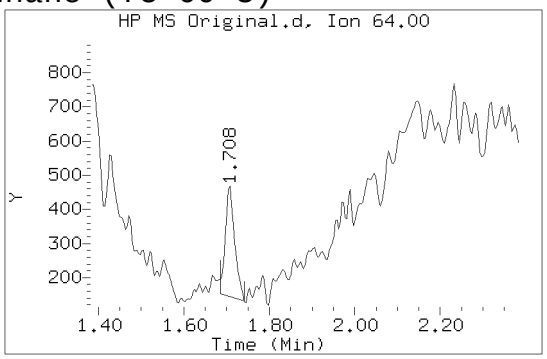
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

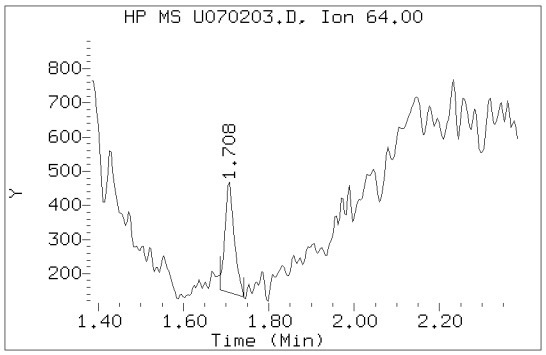
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RUCHA
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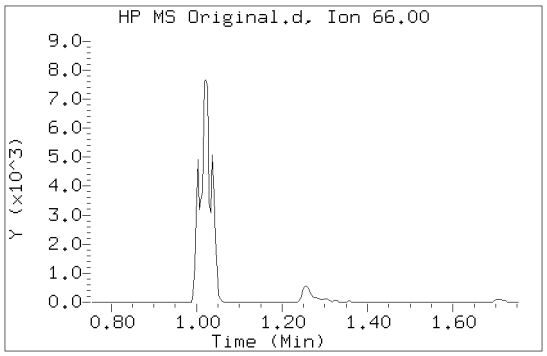
AFTER

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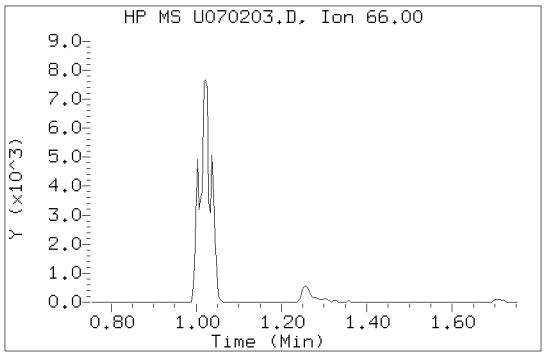
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AFTER

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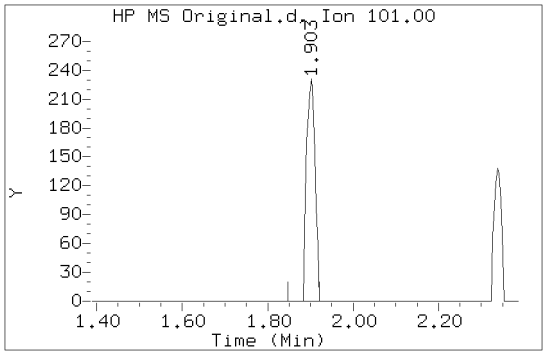


Trichlorofluoromethane (75-69-4)

Reason Code:

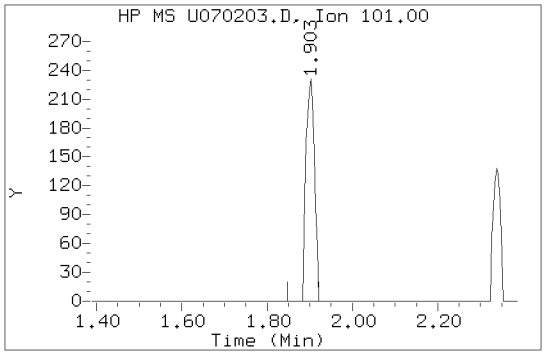
BEFORE

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08:51
RUCHA
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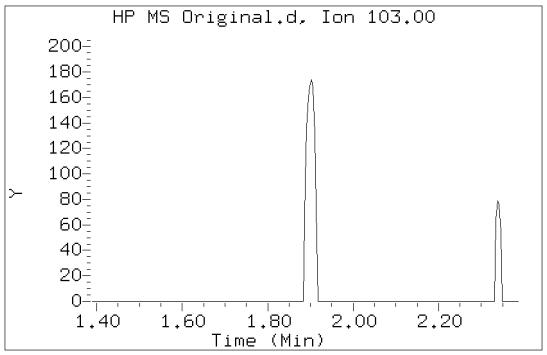
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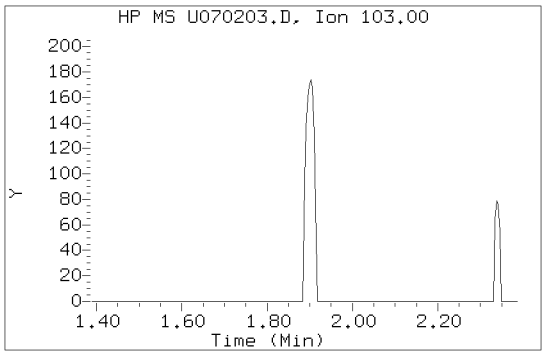
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AFTER

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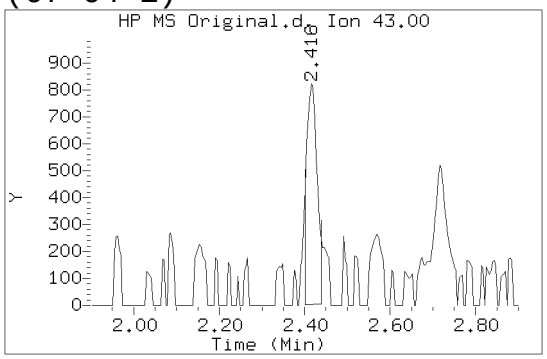
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Acetone (67-64-1)

Reason Code:

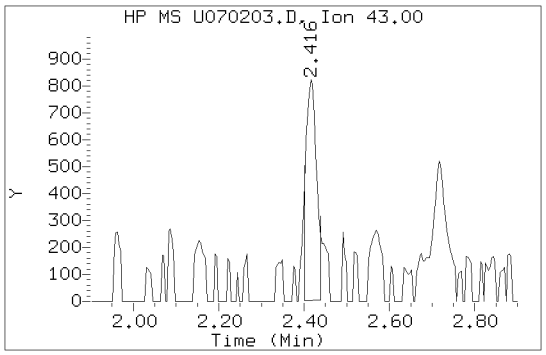
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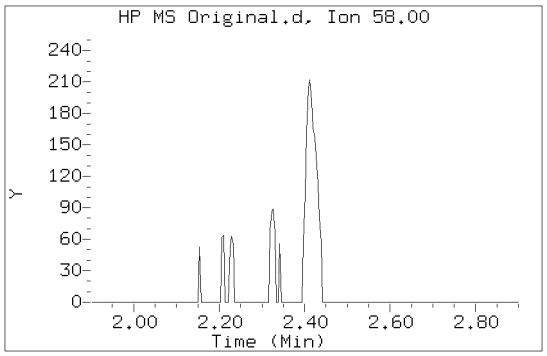
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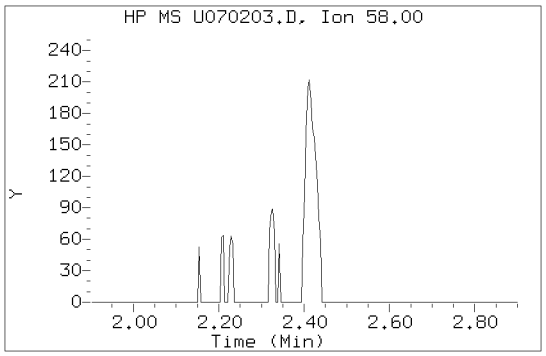
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AFTER

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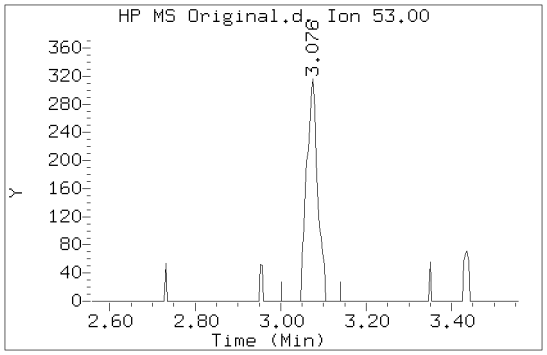


Acrylonitrile (107-13-1)

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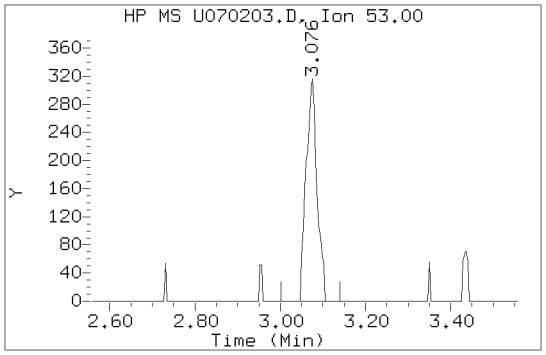
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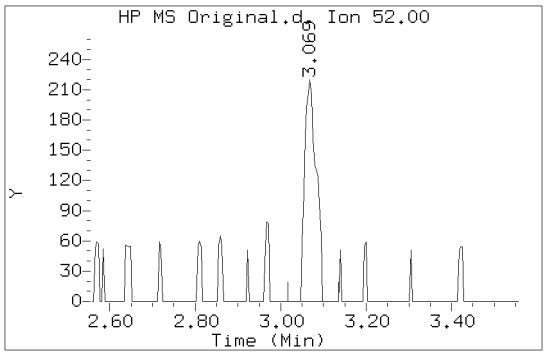
AFTER

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10-Jul-2024
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RUCHA
PATEL



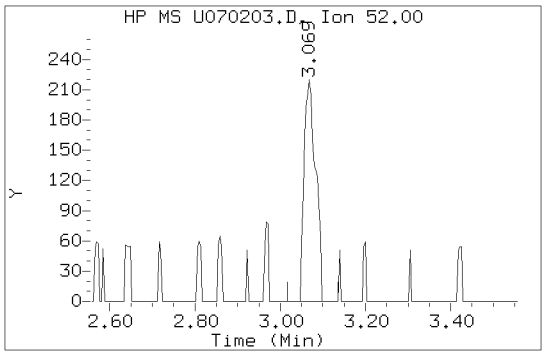
BEFORE

MASS
52
AREA
419
HEIGHT
220
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
52
AREA
419
HEIGHT
220
10-Jul-2024
09:57
RUCHA
PATEL



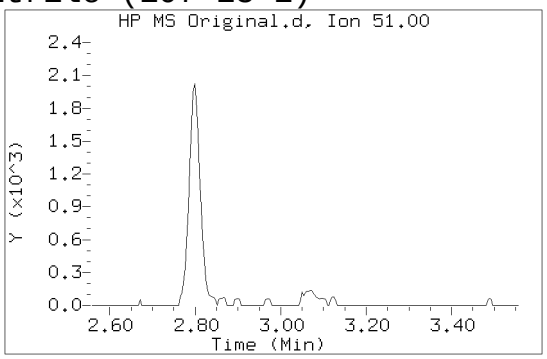
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Acrylonitrile (107-13-1)

Reason Code:

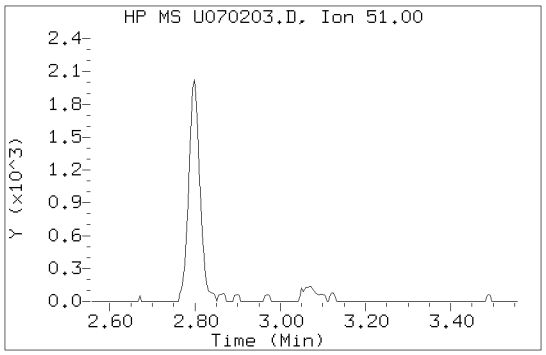
BEFORE

MASS
51
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
51
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

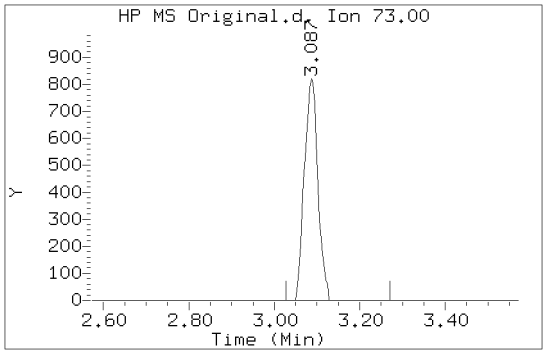


Methyl tert-butyl ether (1634-04-4)

Reason Code:

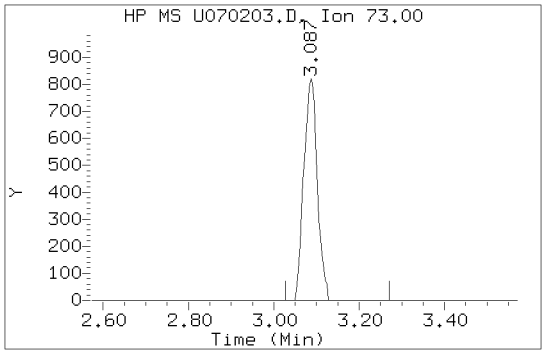
BEFORE

MASS
73
AREA
1818
HEIGHT
821
10-Jul-2024
08:51
RUCHA
PATEL



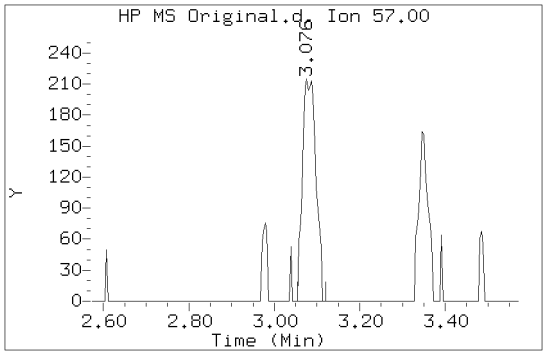
AFTER

MASS
73
AREA
1818
HEIGHT
821
10-Jul-2024
09:57
RUCHA
PATEL



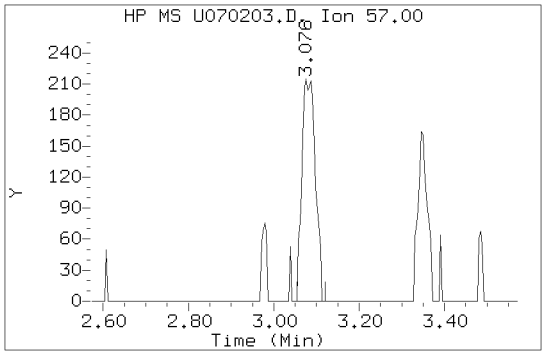
BEFORE

MASS
57
AREA
476
HEIGHT
215
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
57
AREA
476
HEIGHT
215
10-Jul-2024
09:57
RUCHA
PATEL

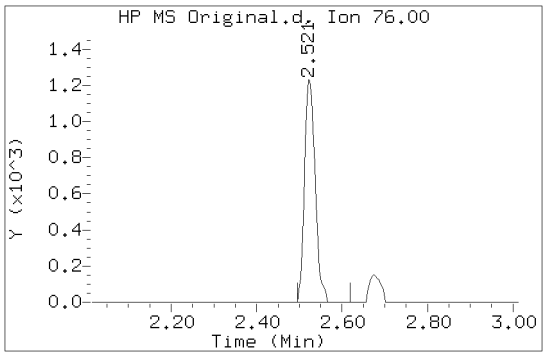


Carbon Disulfide (75-15-0)

Reason Code:

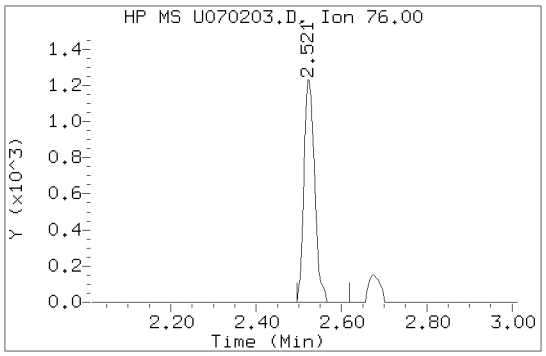
BEFORE

MASS
76
AREA
2198
HEIGHT
1231
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
76
AREA
2198
HEIGHT
1231
10-Jul-2024
09:57
RUCHA
PATEL



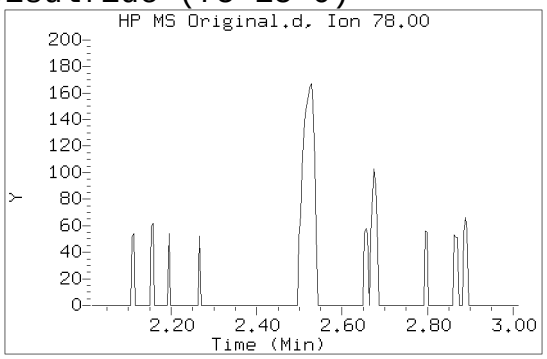
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Disulfide (75-15-0)

Reason Code:

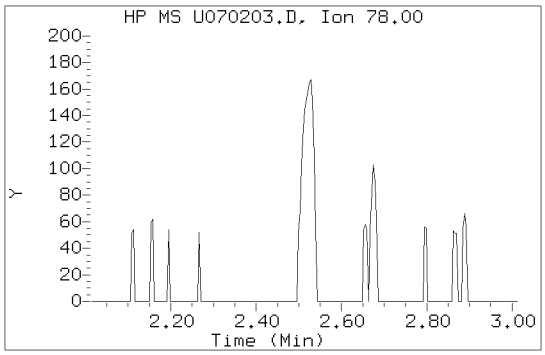
BEFORE

MASS
78
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
78
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

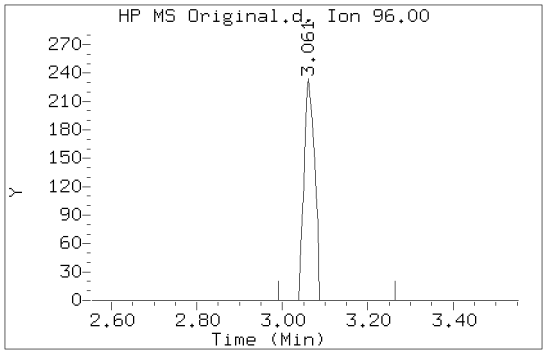


trans-1,2-Dichloroethene (156-60-5)

Reason Code:

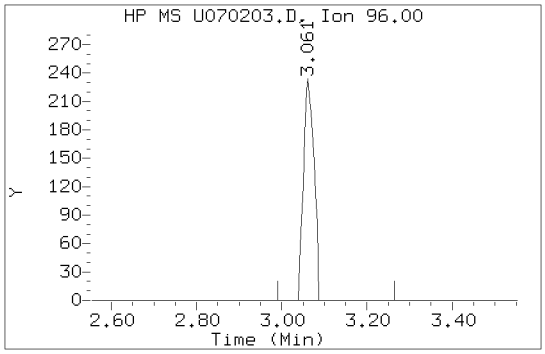
BEFORE

MASS
96
AREA
410
HEIGHT
234
10-Jul-2024
08:51
RUCHA
PATEL



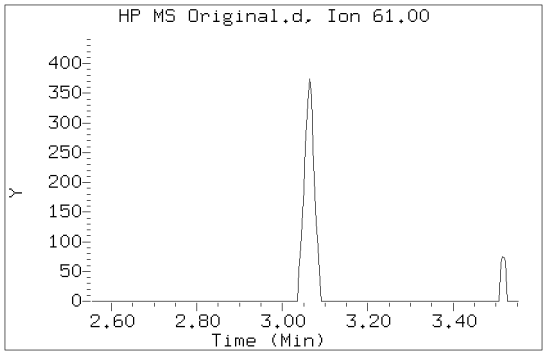
AFTER

MASS
96
AREA
410
HEIGHT
234
10-Jul-2024
09:57
RUCHA
PATEL



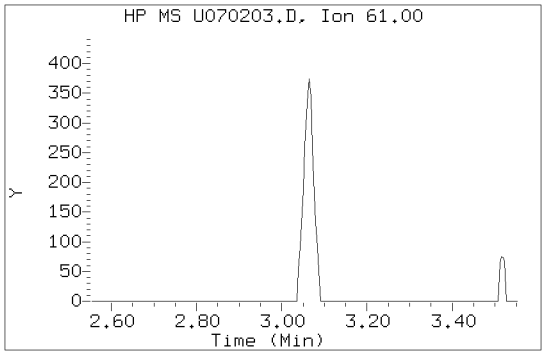
BEFORE

MASS
61
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



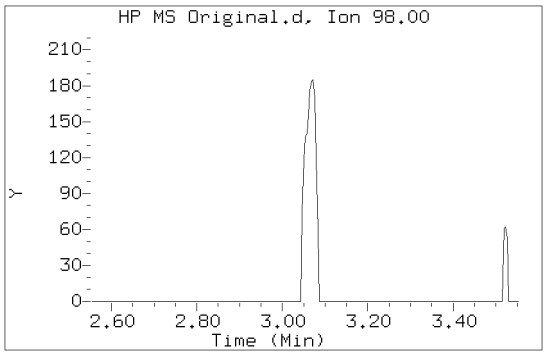
AFTER

MASS
61
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



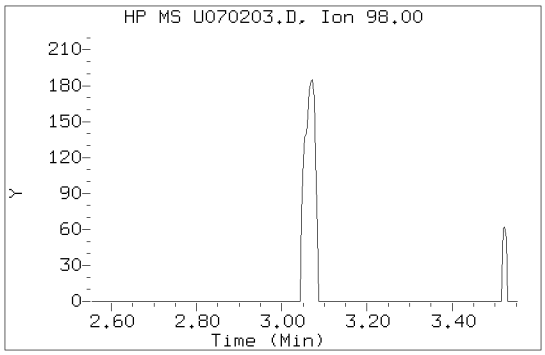
BEFORE

MASS
98
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
98
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



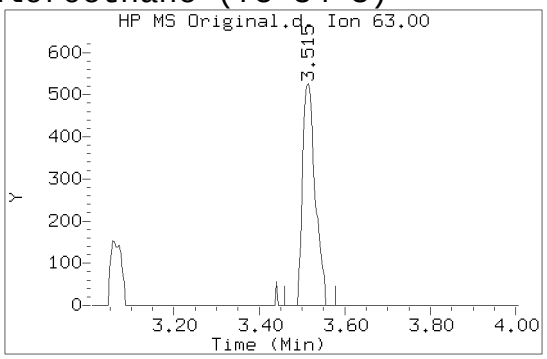
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethane (75-34-3)

Reason Code:

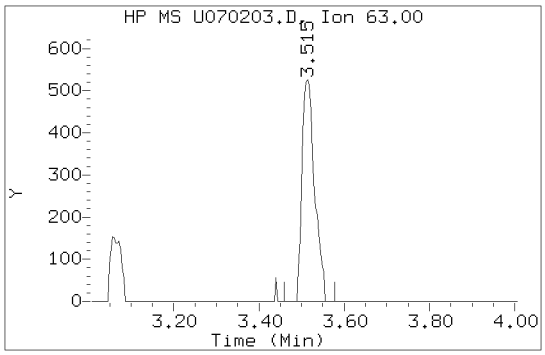
BEFORE

MASS
63
AREA
1095
HEIGHT
526
10-Jul-2024
08:51
RUCHA
PATEL



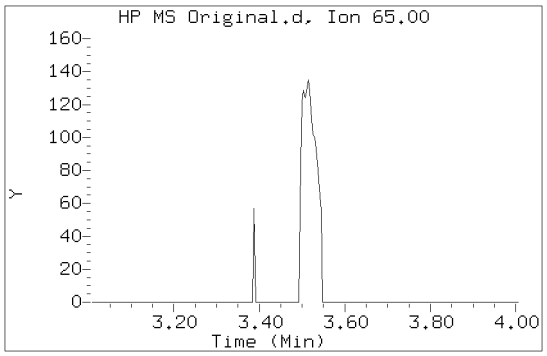
AFTER

MASS
63
AREA
1095
HEIGHT
526
10-Jul-2024
09:57
RUCHA
PATEL



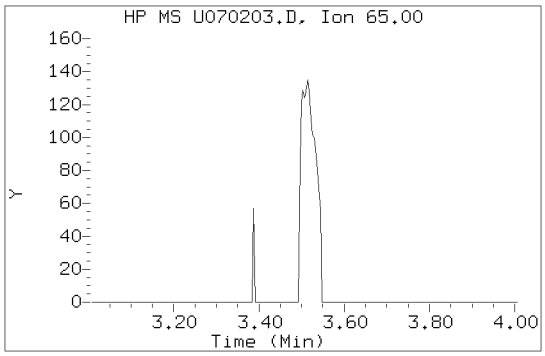
BEFORE

MASS
65
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



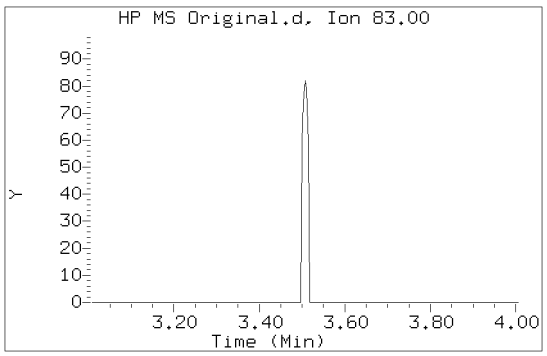
AFTER

MASS
65
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



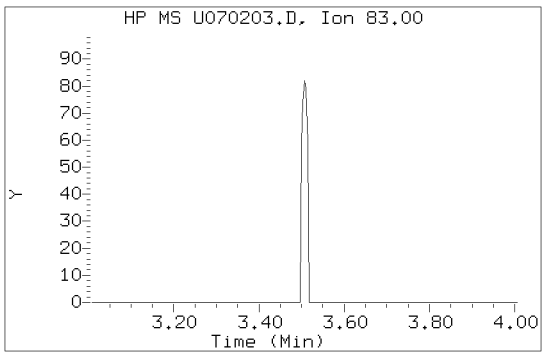
BEFORE

MASS
83
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
83
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

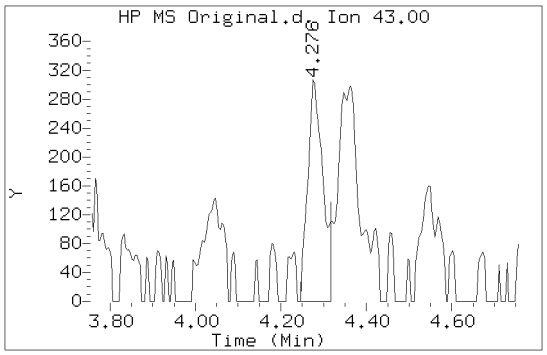


2-Butanone (78-93-3)

Reason Code:

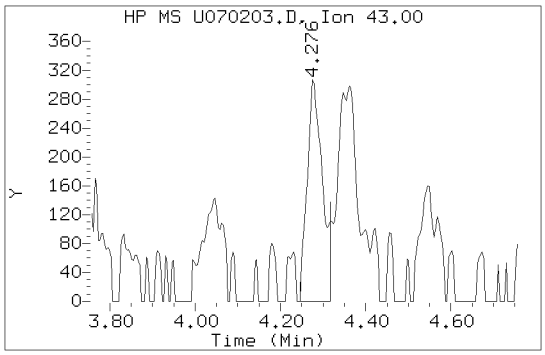
BEFORE

MASS
43
AREA
759
HEIGHT
307
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
43
AREA
759
HEIGHT
307
10-Jul-2024
09:57
RUCHA
PATEL



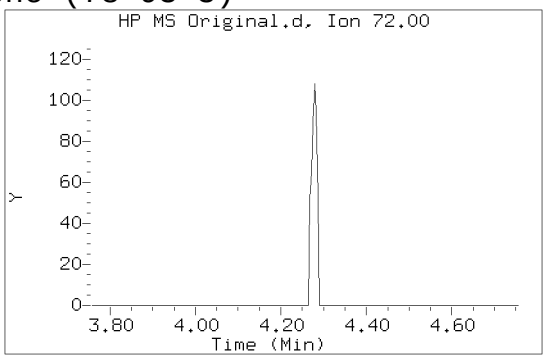
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Butanone (78-93-3)

Reason Code:

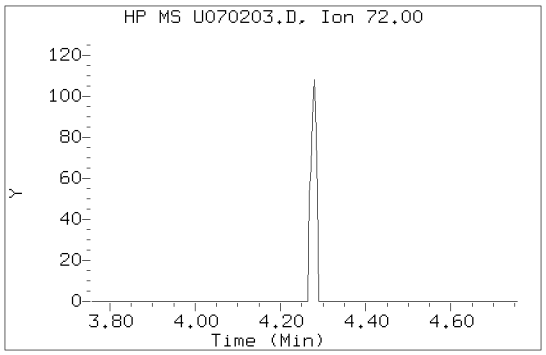
BEFORE

MASS
72
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
72
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

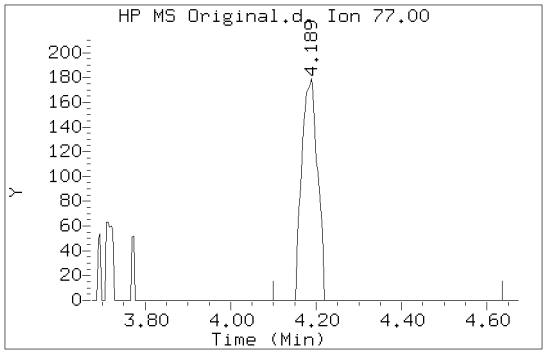


2,2-Dichloropropane (594-20-7)

Reason Code:

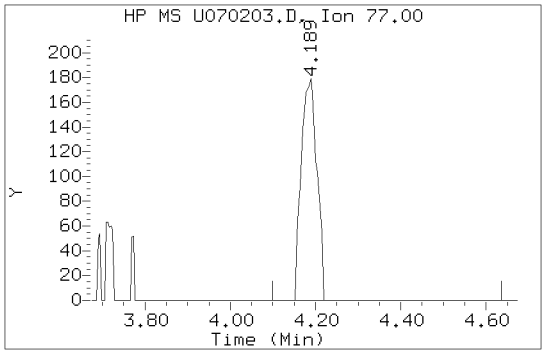
BEFORE

MASS
77
AREA
460
HEIGHT
179
10-Jul-2024
08:51
RUCHA
PATEL



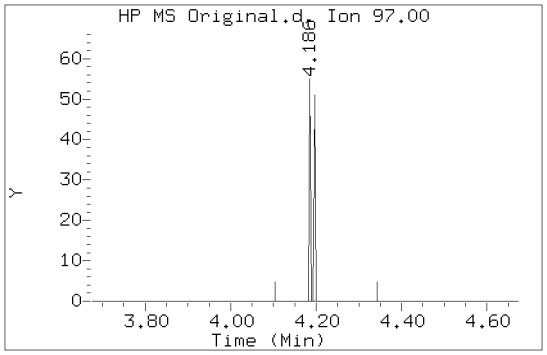
AFTER

MASS
77
AREA
460
HEIGHT
179
10-Jul-2024
09:57
RUCHA
PATEL



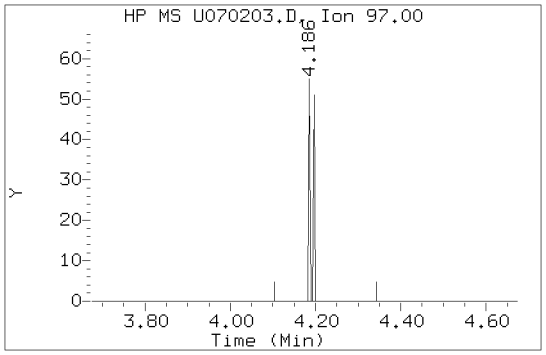
BEFORE

MASS
97
AREA
23
HEIGHT
55
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
97
AREA
23
HEIGHT
55
10-Jul-2024
09:57
RUCHA
PATEL

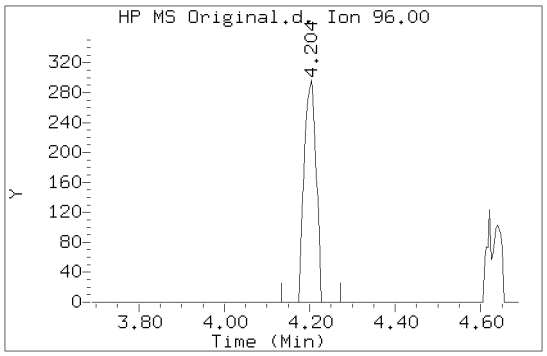


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

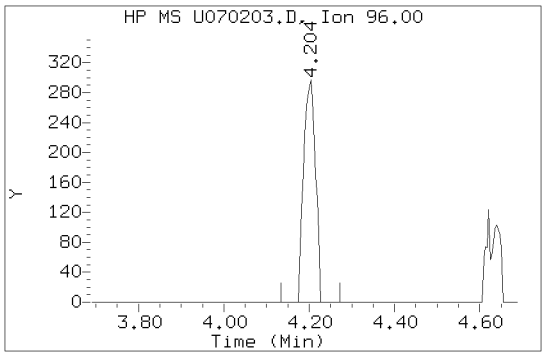
BEFORE

MASS
96
AREA
584
HEIGHT
297
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
96
AREA
584
HEIGHT
297
10-Jul-2024
09:57
RUCHA
PATEL



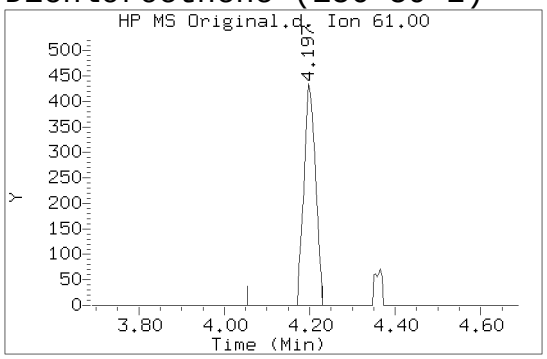
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

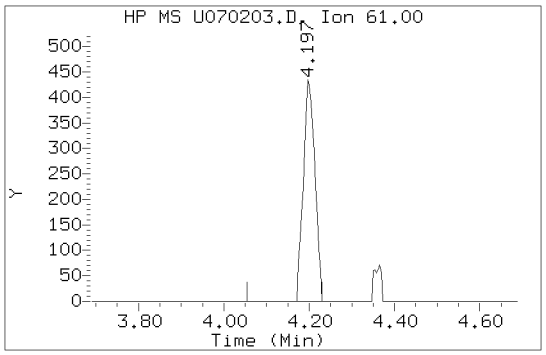
BEFORE

MASS
61
AREA
839
HEIGHT
435
10-Jul-2024
08:51
RUCHA
PATEL



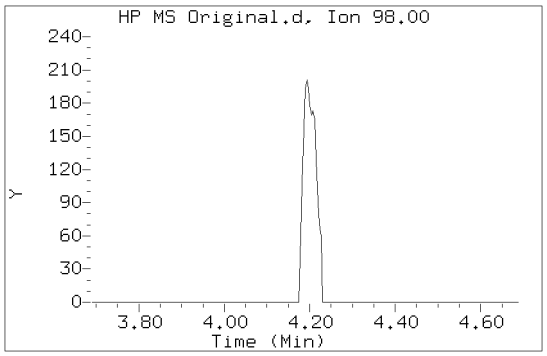
AFTER

MASS
61
AREA
839
HEIGHT
435
10-Jul-2024
09:57
RUCHA
PATEL



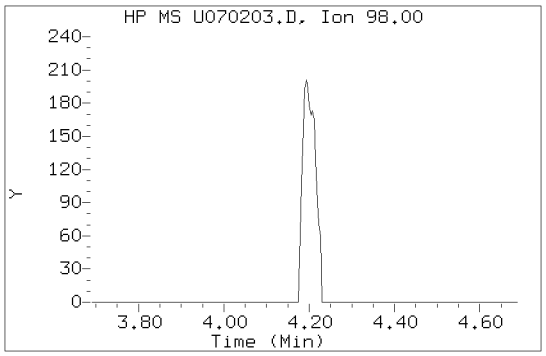
BEFORE

MASS
98
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
98
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

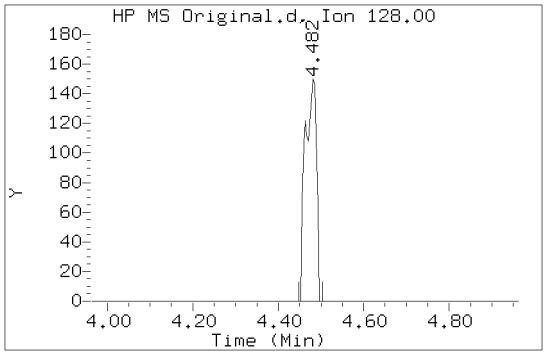


Bromochloromethane (74-97-5)

Reason Code:

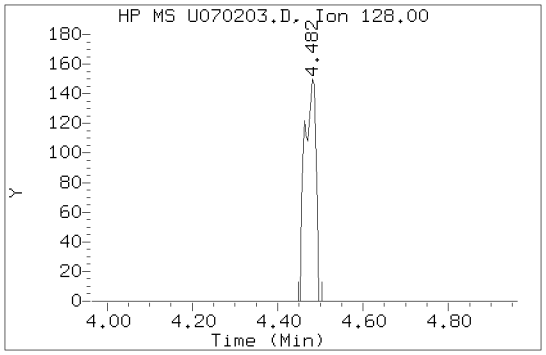
BEFORE

MASS
128
AREA
279
HEIGHT
150
10-Jul-2024
08:51
RUCHA
PATEL



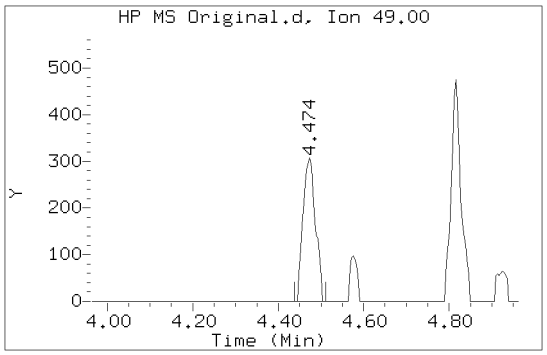
AFTER

MASS
128
AREA
279
HEIGHT
150
10-Jul-2024
09:57
RUCHA
PATEL



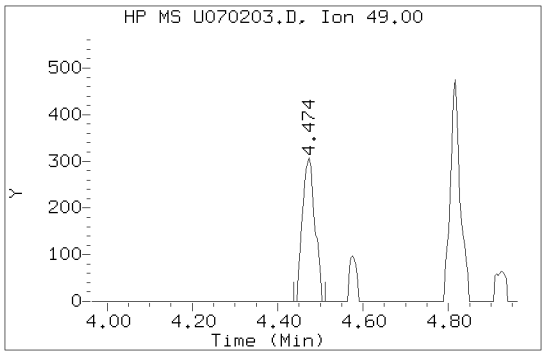
BEFORE

MASS
49
AREA
631
HEIGHT
308
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
49
AREA
631
HEIGHT
308
10-Jul-2024
09:57
RUCHA
PATEL



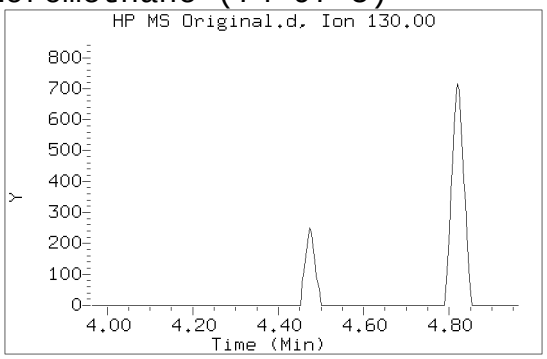
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromochloromethane (74-97-5)

Reason Code:

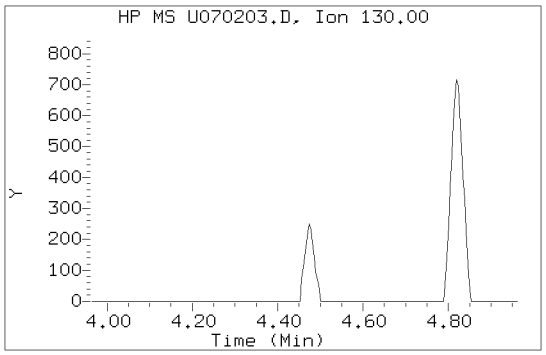
BEFORE

MASS
130
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
130
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

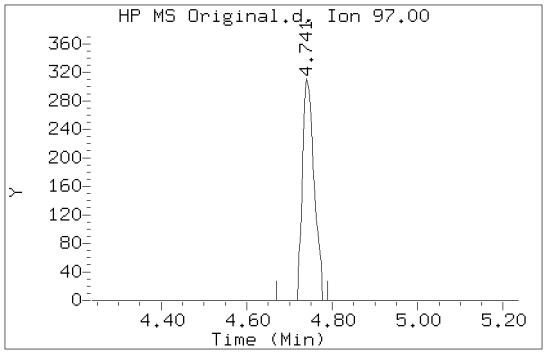


1,1,1-Trichloroethane (71-55-6)

Reason Code:

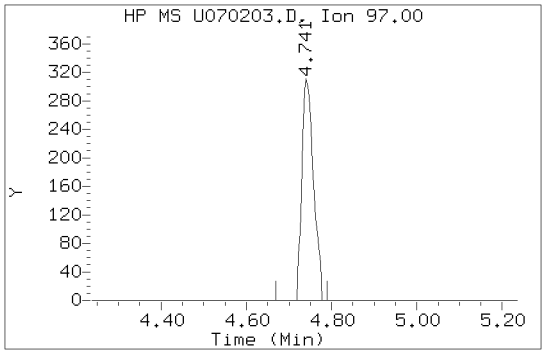
BEFORE

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595
HEIGHT
311
10-Jul-2024
08:51
RUCHA
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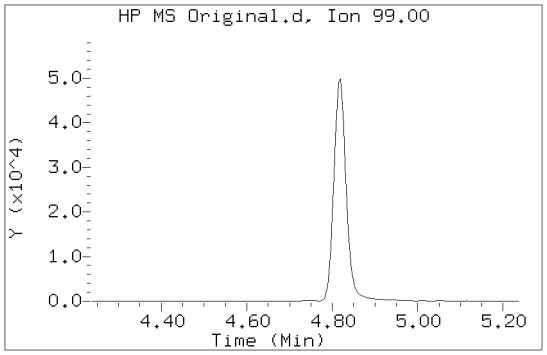
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MASS
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AREA
595
HEIGHT
311
10-Jul-2024
09:57
RUCHA
PATEL



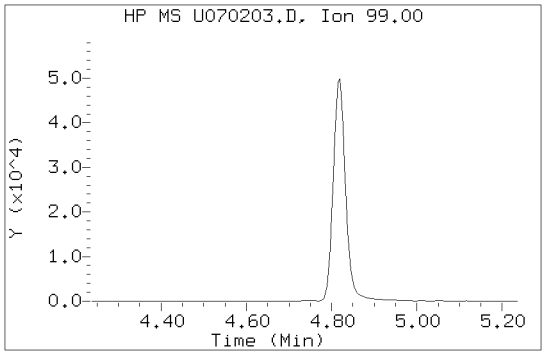
BEFORE

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99
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0
10-Jul-2024
08:51
RUCHA
PATEL



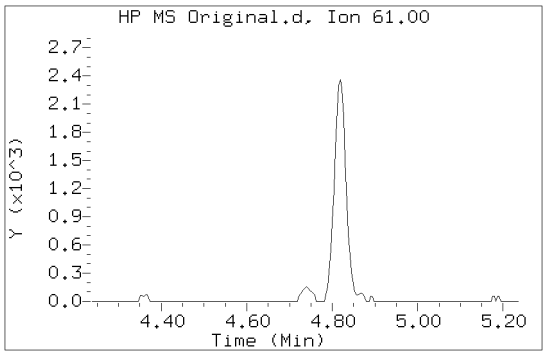
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10-Jul-2024
09:57
RUCHA
PATEL



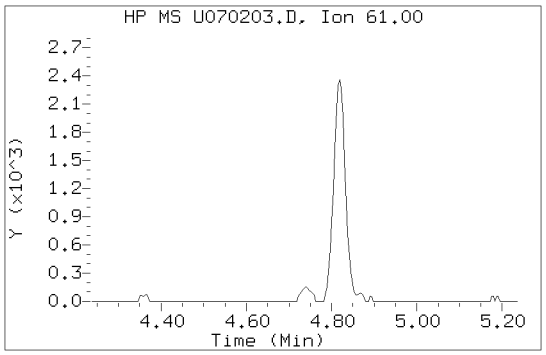
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



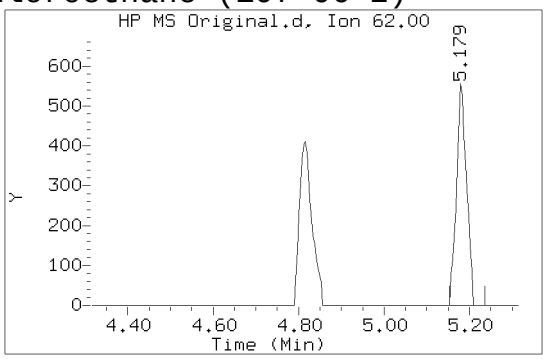
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dichloroethane (107-06-2)

Reason Code:

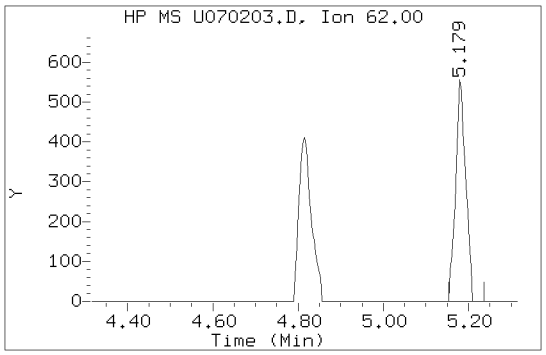
BEFORE

MASS
62
AREA
907
HEIGHT
556
10-Jul-2024
08:51
RUCHA
PATEL



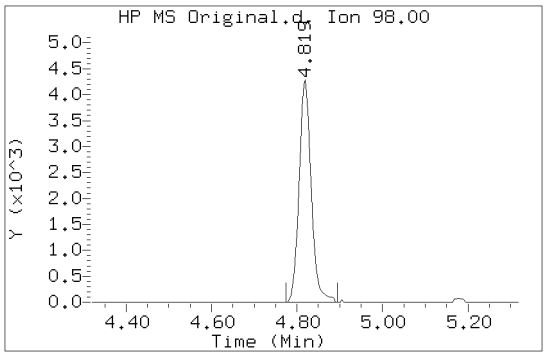
AFTER

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907
HEIGHT
556
10-Jul-2024
09:57
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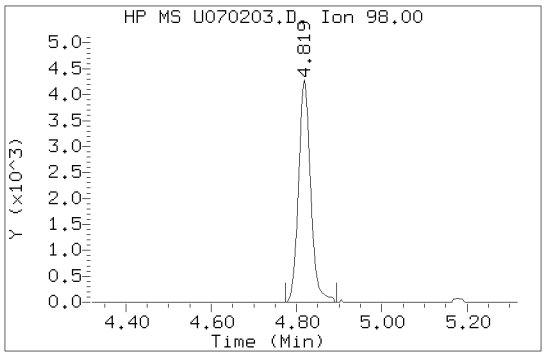
BEFORE

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98
AREA
8641
HEIGHT
4285
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
98
AREA
8641
HEIGHT
4285
10-Jul-2024
09:57
RUCHA
PATEL

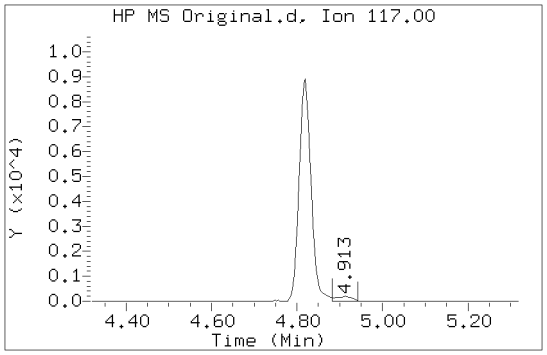


Carbon Tetrachloride (56-23-5)

Reason Code:

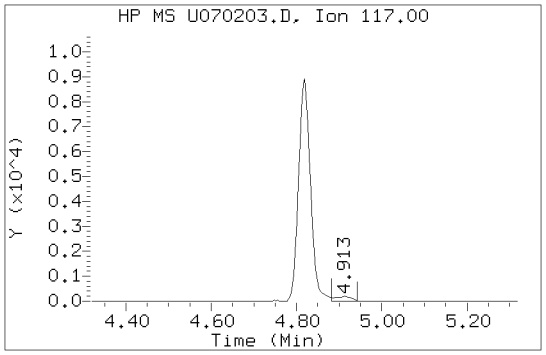
BEFORE

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117
AREA
492
HEIGHT
192
10-Jul-2024
08:51
RUCHA
PATEL



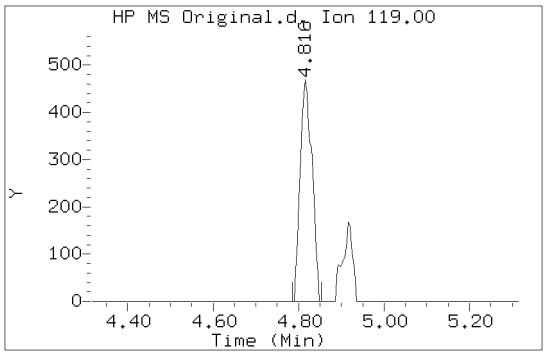
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MASS
117
AREA
492
HEIGHT
192
10-Jul-2024
09:57
RUCHA
PATEL



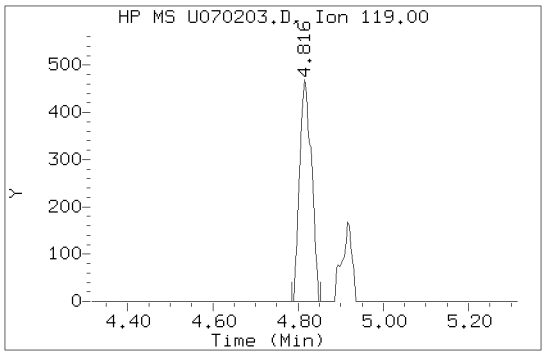
BEFORE

MASS
119
AREA
920
HEIGHT
469
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
119
AREA
920
HEIGHT
469
10-Jul-2024
09:57
RUCHA
PATEL



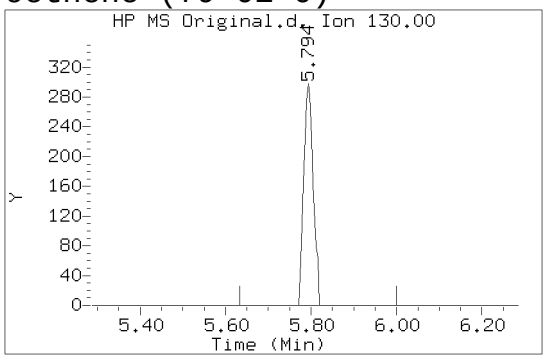
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Trichloroethene (79-01-6)

Reason Code:

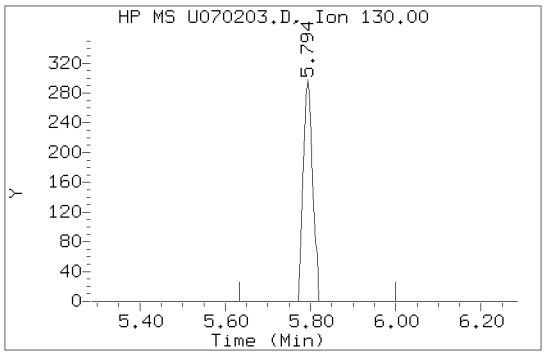
BEFORE

MASS
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AREA
462
HEIGHT
298
10-Jul-2024
08:51
RUCHA
PATEL



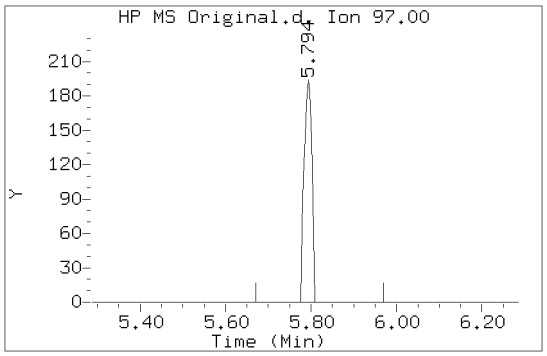
AFTER

MASS
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AREA
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HEIGHT
298
10-Jul-2024
09:57
RUCHA
PATEL



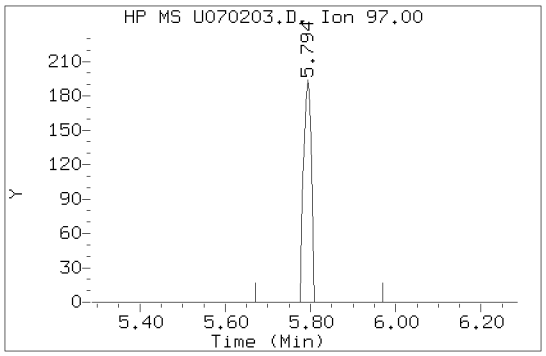
BEFORE

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AREA
248
HEIGHT
194
10-Jul-2024
08:51
RUCHA
PATEL



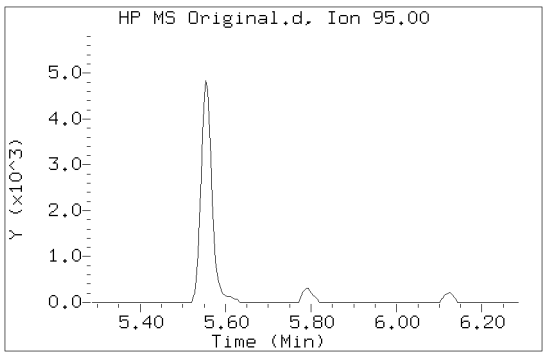
AFTER

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AREA
248
HEIGHT
194
10-Jul-2024
09:57
RUCHA
PATEL



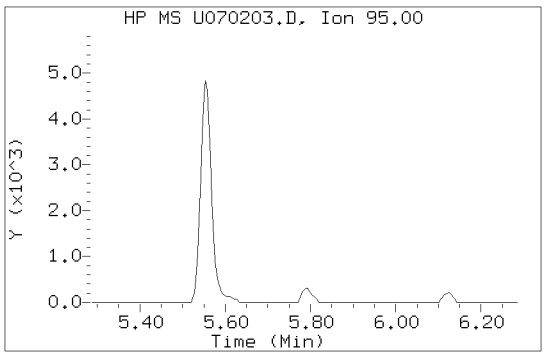
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

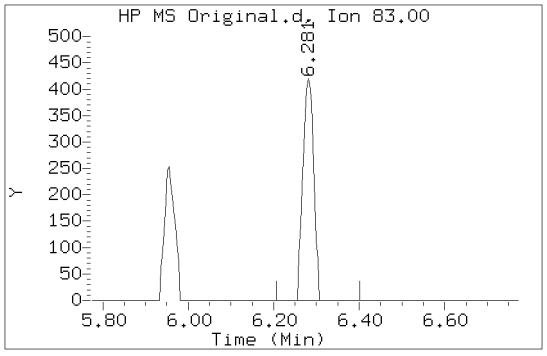


Bromodichloromethane (75-27-4)

Reason Code:

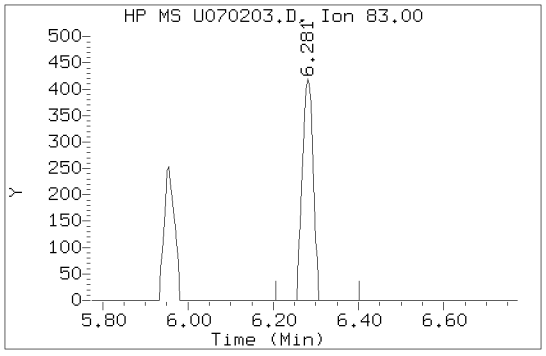
BEFORE

MASS
83
AREA
757
HEIGHT
420
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
83
AREA
757
HEIGHT
420
10-Jul-2024
09:57
RUCHA
PATEL



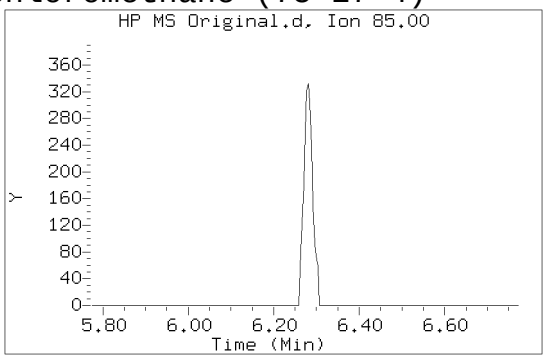
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

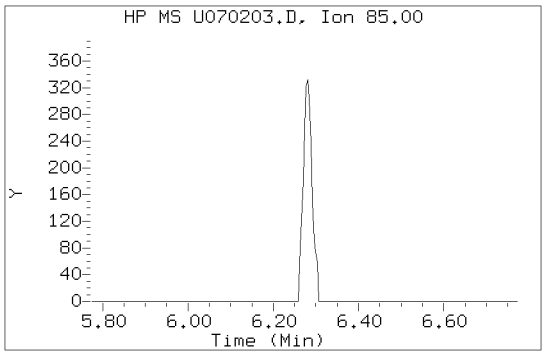
BEFORE

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HEIGHT
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10-Jul-2024
08:51
RUCHA
PATEL



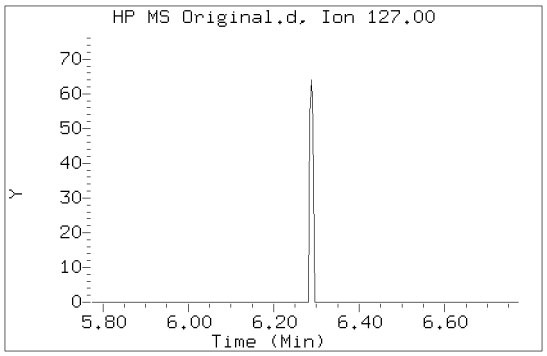
AFTER

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AREA
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



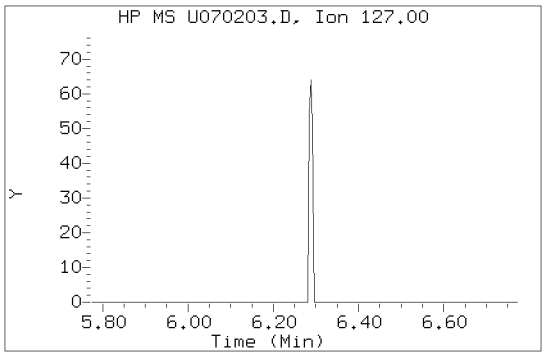
BEFORE

MASS
127
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HEIGHT
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10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
127
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

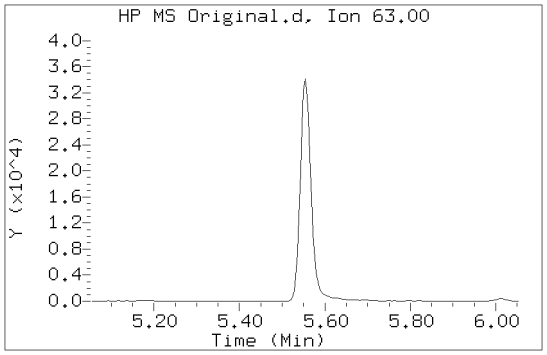


1,2-Dichloropropane (78-87-5)

Reason Code:

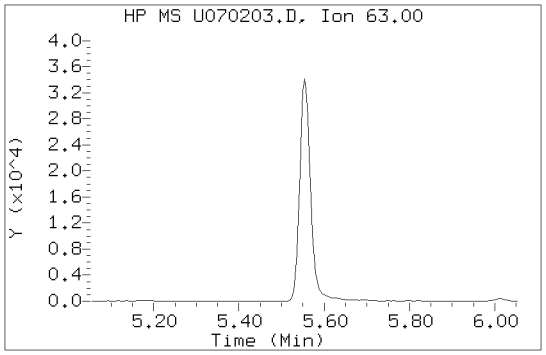
BEFORE

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704
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431
10-Jul-2024
08:51
RUCHA
PATEL



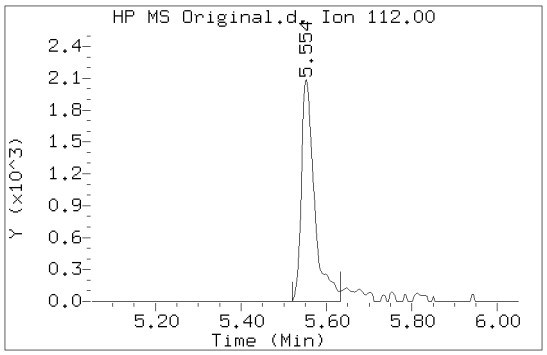
AFTER

MASS
63
AREA
704
HEIGHT
431
10-Jul-2024
09:57
RUCHA
PATEL



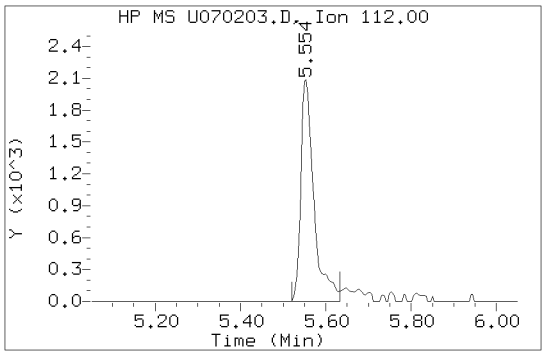
BEFORE

MASS
112
AREA
4517
HEIGHT
2086
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
112
AREA
4517
HEIGHT
2086
10-Jul-2024
09:57
RUCHA
PATEL



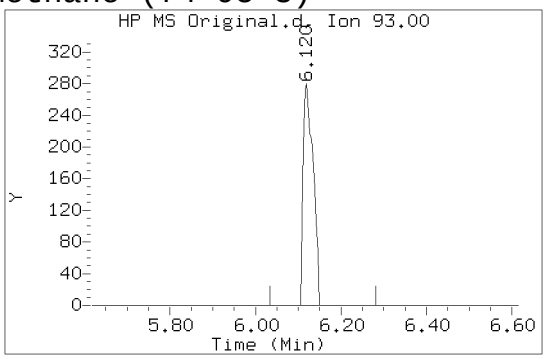
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Dibromomethane (74-95-3)

Reason Code:

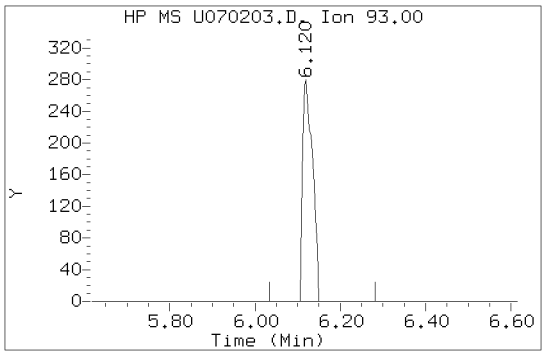
BEFORE

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AREA
458
HEIGHT
280
10-Jul-2024
08:51
RUCHA
PATEL



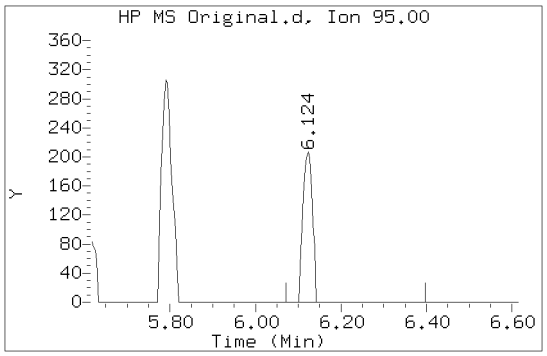
AFTER

MASS
93
AREA
458
HEIGHT
280
10-Jul-2024
09:57
RUCHA
PATEL



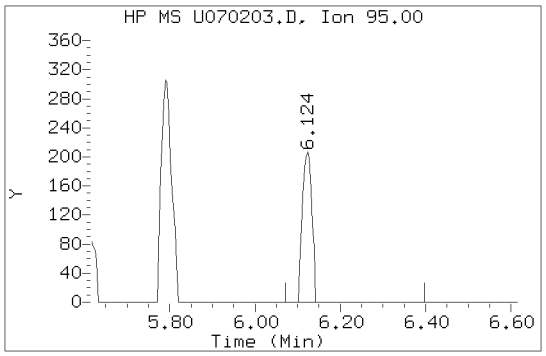
BEFORE

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AREA
325
HEIGHT
207
10-Jul-2024
08:51
RUCHA
PATEL



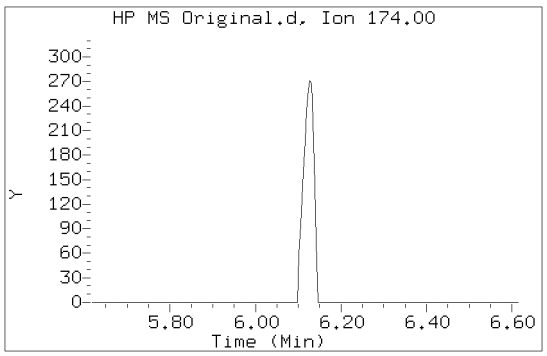
AFTER

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AREA
325
HEIGHT
207
10-Jul-2024
09:57
RUCHA
PATEL



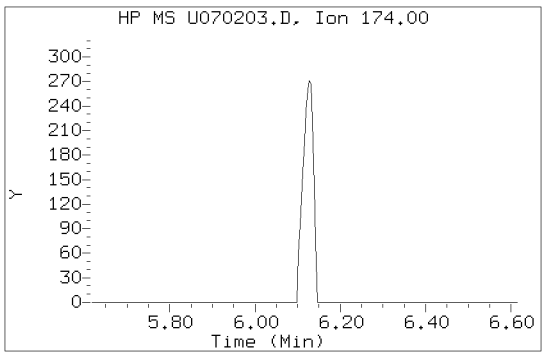
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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174
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

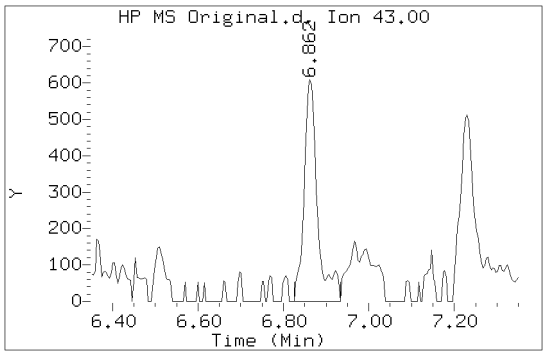


4-Methyl-2-Pentanone (108-10-1)

Reason Code:

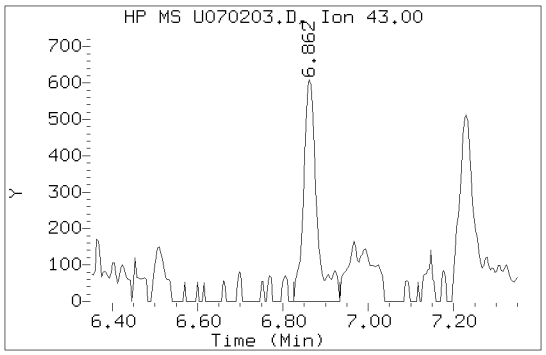
BEFORE

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43
AREA
1347
HEIGHT
609
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
43
AREA
1347
HEIGHT
609
10-Jul-2024
09:57
RUCHA
PATEL

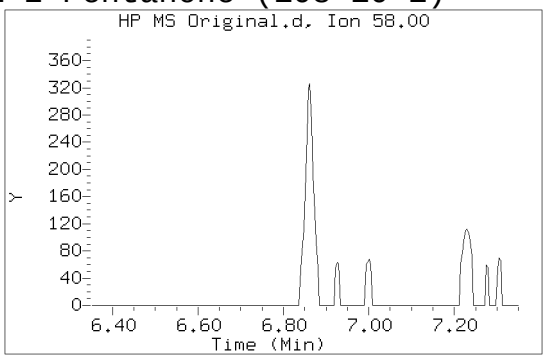


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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

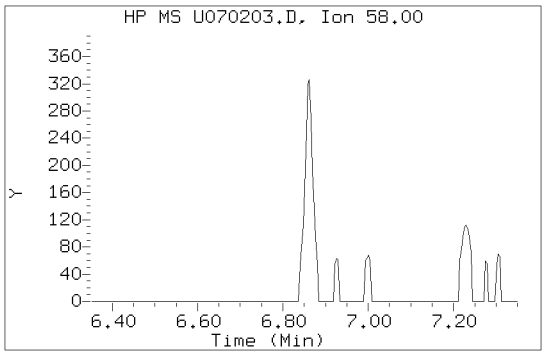
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

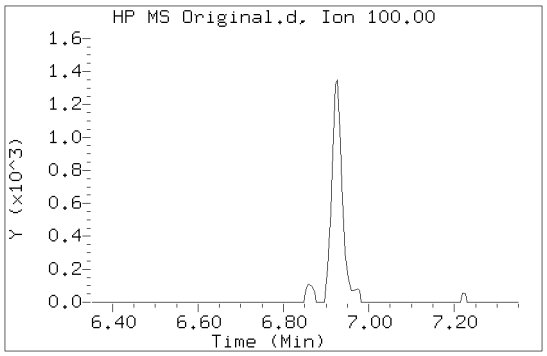
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MASS
58
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



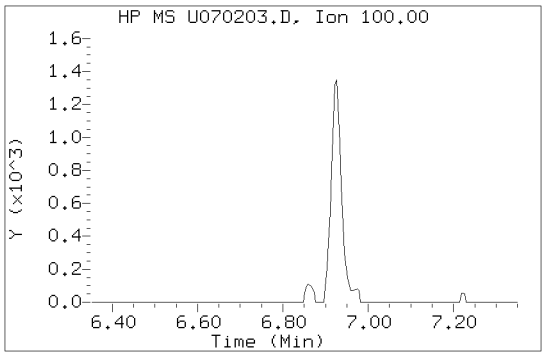
AFTER
MASS
58
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
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AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



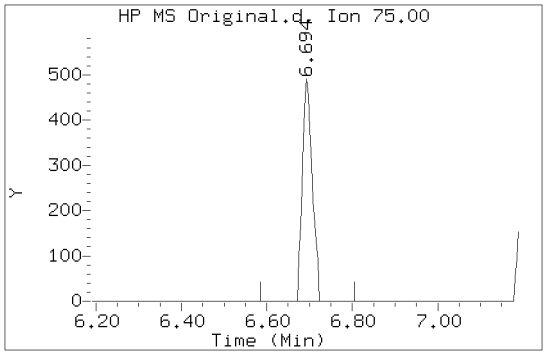
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09:57
RUCHA
PATEL



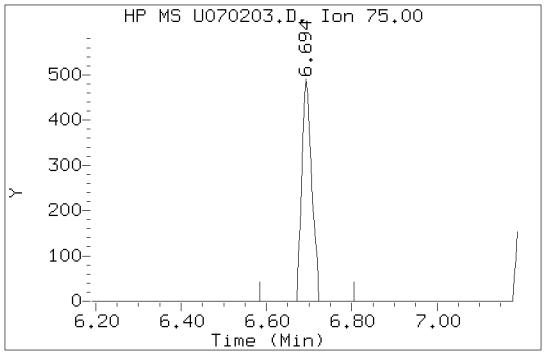
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

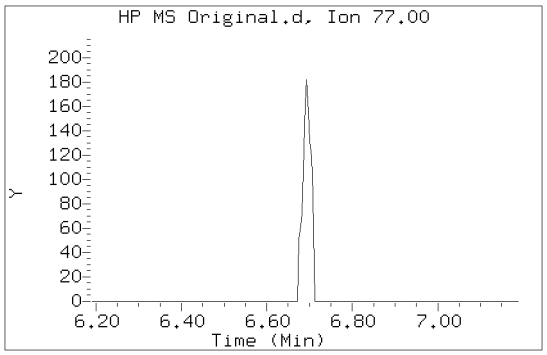
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MASS
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HEIGHT
491
10-Jul-2024
08:51
RUCHA
PATEL



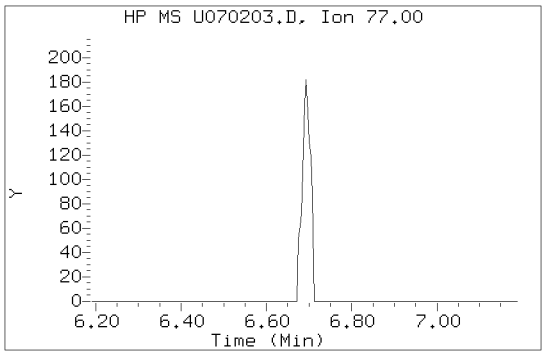
AFTER
MASS
75
AREA
803
HEIGHT
491
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
77
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
77
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



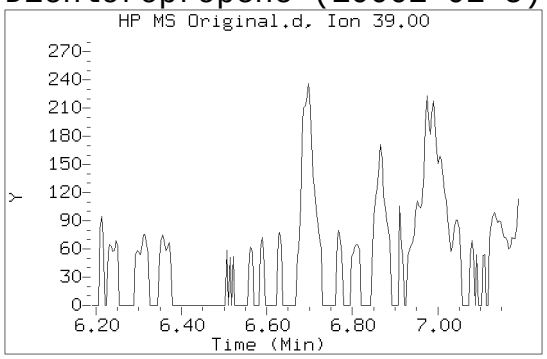
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

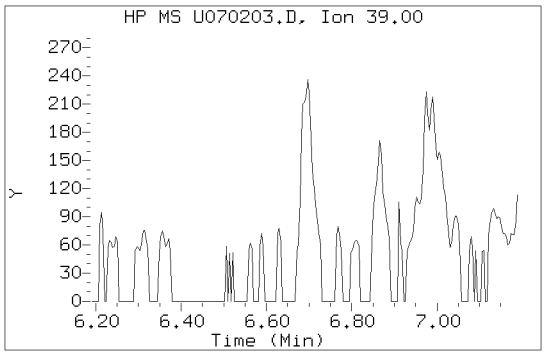
BEFORE

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39
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

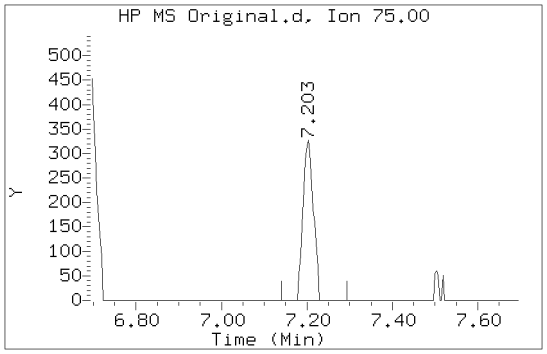


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

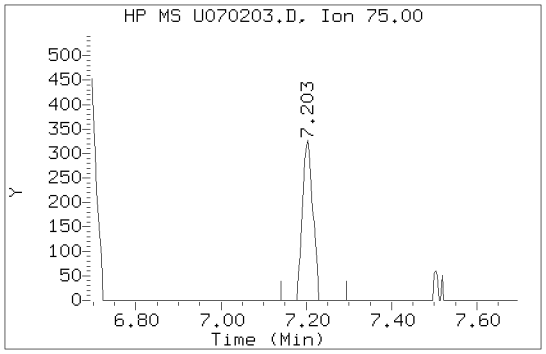
BEFORE

MASS
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AREA
567
HEIGHT
328
10-Jul-2024
08:51
RUCHA
PATEL



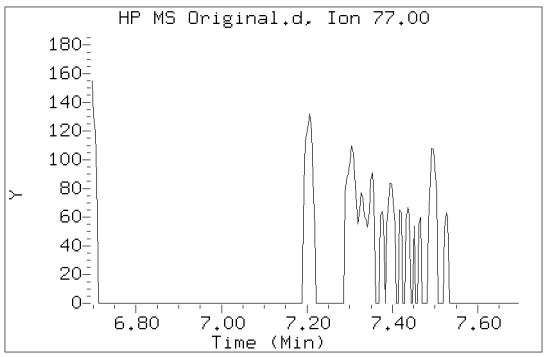
AFTER

MASS
75
AREA
567
HEIGHT
328
10-Jul-2024
09:57
RUCHA
PATEL



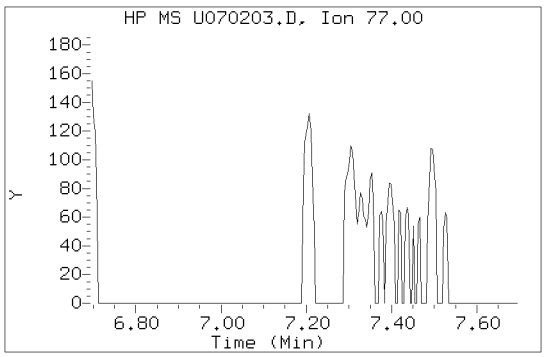
BEFORE

MASS
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AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



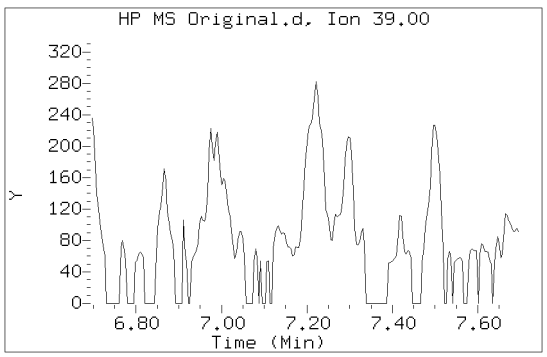
AFTER

MASS
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AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



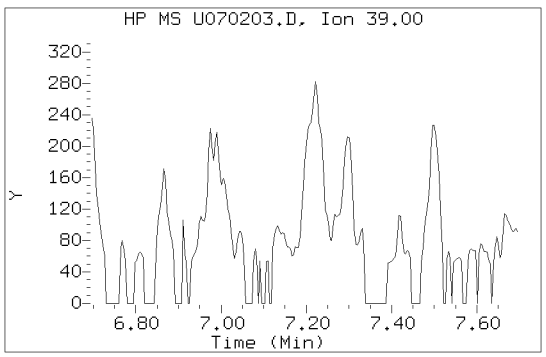
BEFORE

MASS
39
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



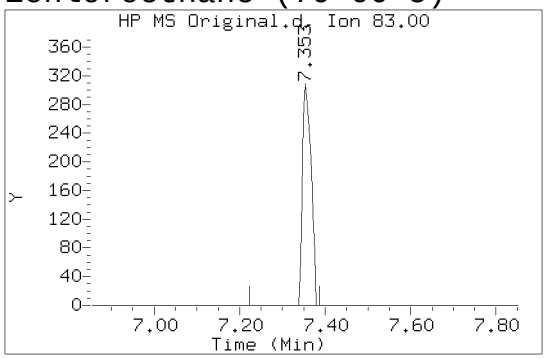
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1,2-Trichloroethane (79-00-5)

Reason Code:

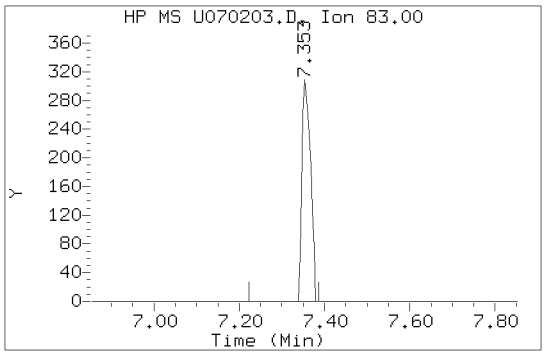
BEFORE

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83
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309
10-Jul-2024
08:51
RUCHA
PATEL



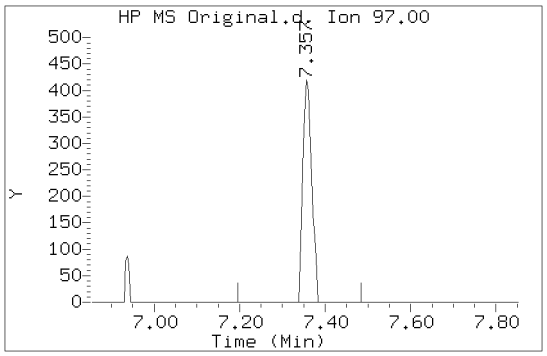
AFTER

MASS
83
AREA
441
HEIGHT
309
10-Jul-2024
09:57
RUCHA
PATEL



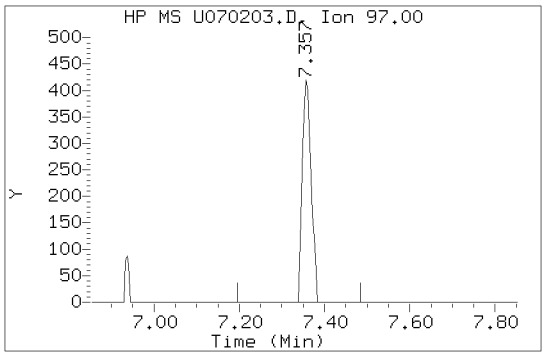
BEFORE

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AREA
617
HEIGHT
420
10-Jul-2024
08:51
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PATEL



AFTER

MASS
97
AREA
617
HEIGHT
420
10-Jul-2024
09:57
RUCHA
PATEL

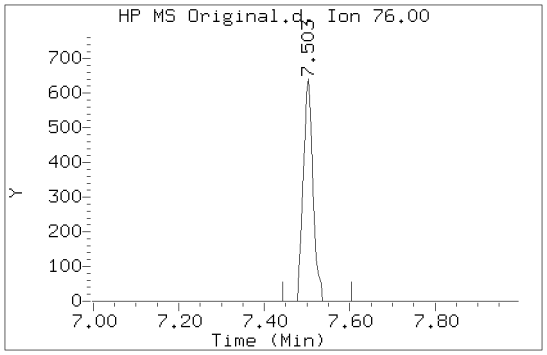


1,3-Dichloropropane (142-28-9)

Reason Code:

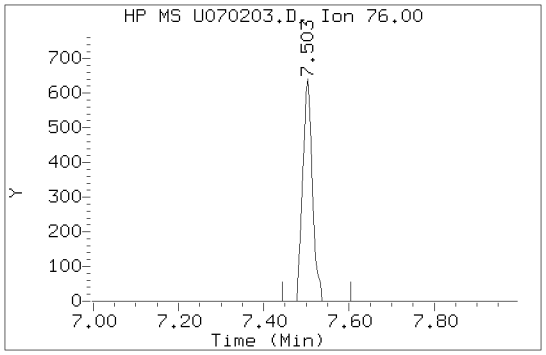
BEFORE

MASS
76
AREA
1016
HEIGHT
641
10-Jul-2024
08:51
RUCHA
PATEL



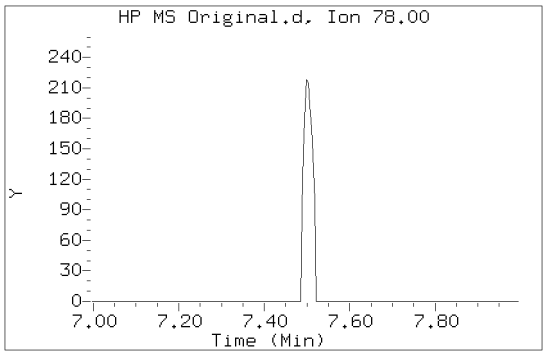
AFTER

MASS
76
AREA
1016
HEIGHT
641
10-Jul-2024
09:57
RUCHA
PATEL



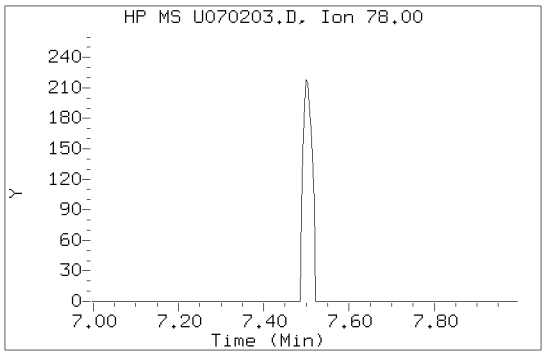
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
78
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



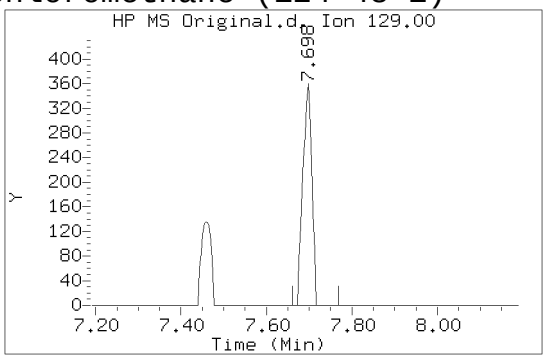
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Dibromochloromethane (124-48-1)

Reason Code:

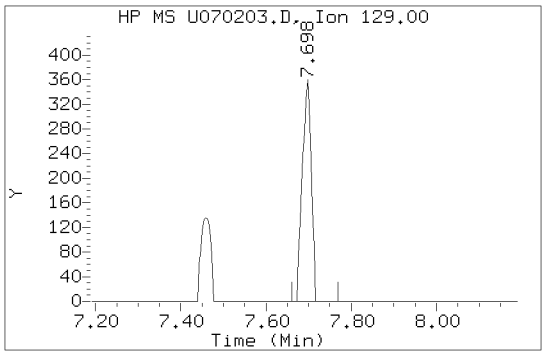
BEFORE

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AREA
534
HEIGHT
360
10-Jul-2024
08:51
RUCHA
PATEL



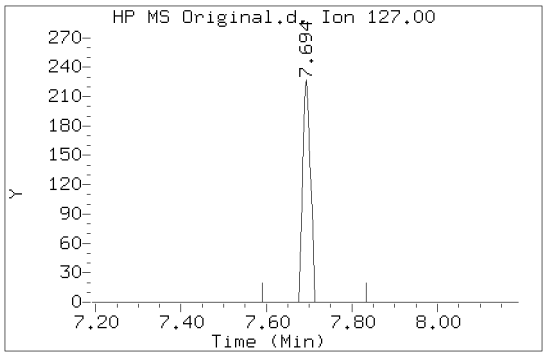
AFTER

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10-Jul-2024
09:57
RUCHA
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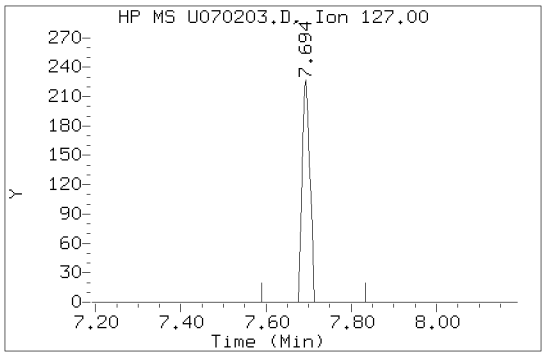
BEFORE

MASS
127
AREA
290
HEIGHT
227
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
127
AREA
290
HEIGHT
227
10-Jul-2024
09:57
RUCHA
PATEL

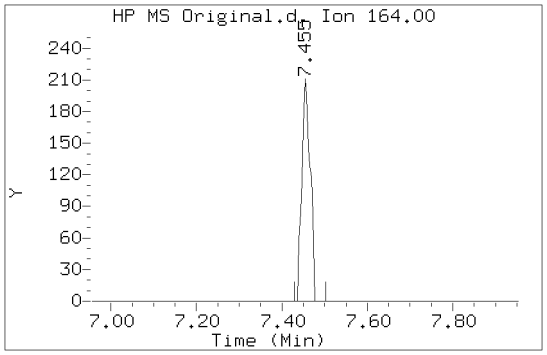


Tetrachloroethene (127-18-4)

Reason Code:

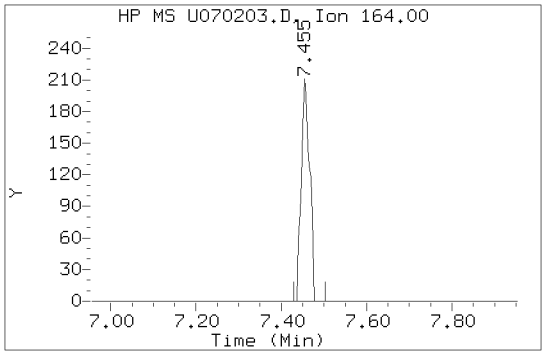
BEFORE

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292
HEIGHT
211
10-Jul-2024
08:51
RUCHA
PATEL



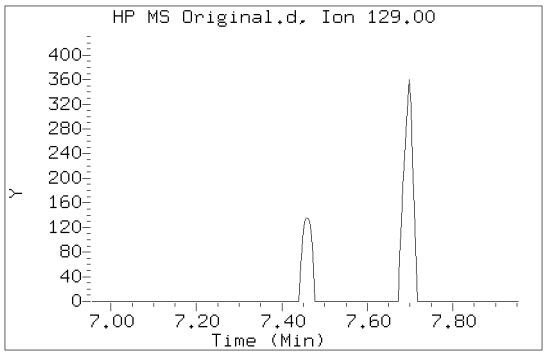
AFTER

MASS
164
AREA
292
HEIGHT
211
10-Jul-2024
09:57
RUCHA
PATEL



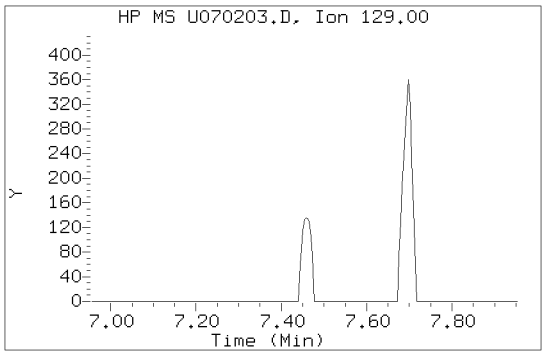
BEFORE

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10-Jul-2024
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AFTER

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AREA
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



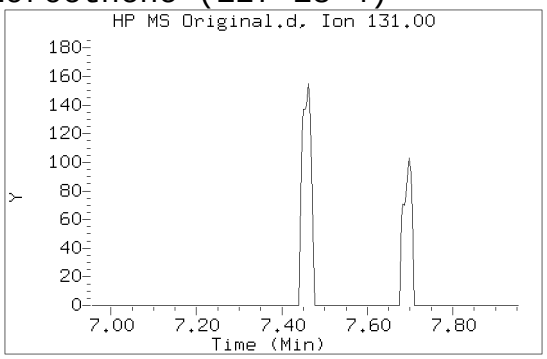
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrachloroethene (127-18-4)

Reason Code:

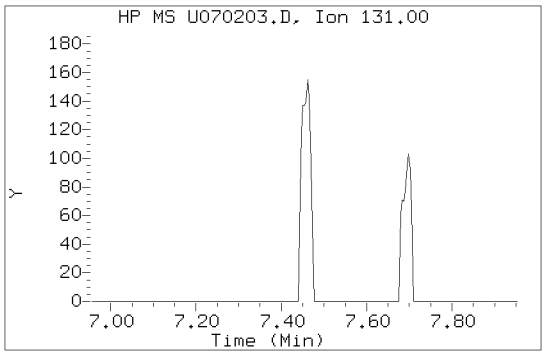
BEFORE

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131
AREA
0
HEIGHT
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10-Jul-2024
08:51
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PATEL



AFTER

MASS
131
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

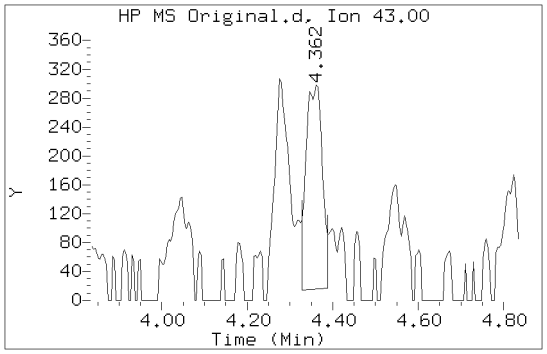


Vinyl Acetate (108-05-4)

Reason Code:

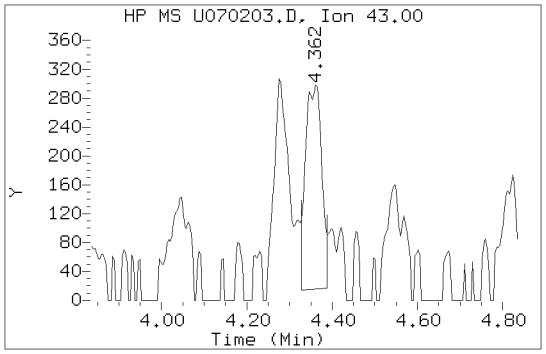
BEFORE

MASS
43
AREA
767
HEIGHT
282
10-Jul-2024
08:51
RUCHA
PATEL



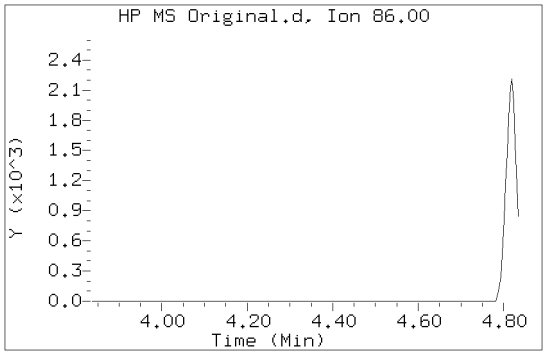
AFTER

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AREA
767
HEIGHT
282
10-Jul-2024
09:57
RUCHA
PATEL



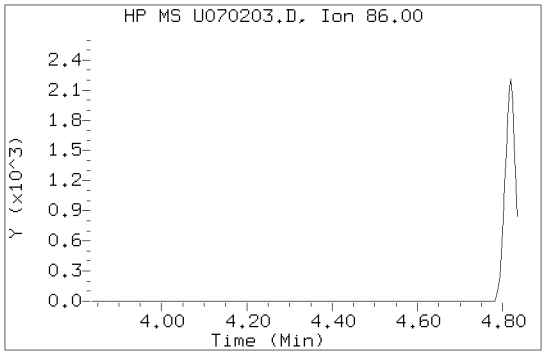
BEFORE

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AFTER

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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL

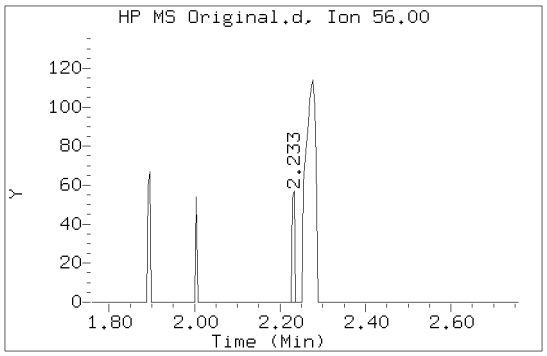


Acrolein (107-02-8)

Reason Code:

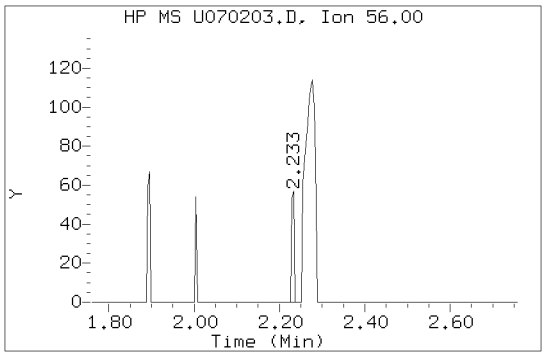
BEFORE

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AREA
24
HEIGHT
57
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
56
AREA
24
HEIGHT
57
10-Jul-2024
09:57
RUCHA
PATEL



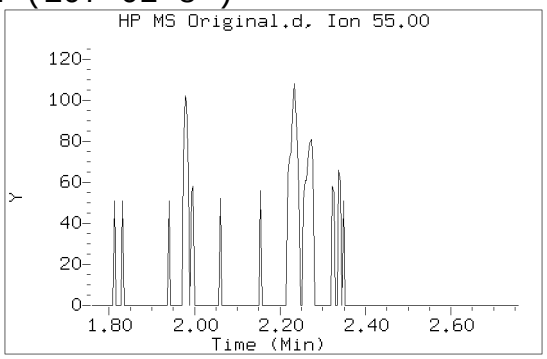
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Acrolein (107-02-8)

Reason Code:

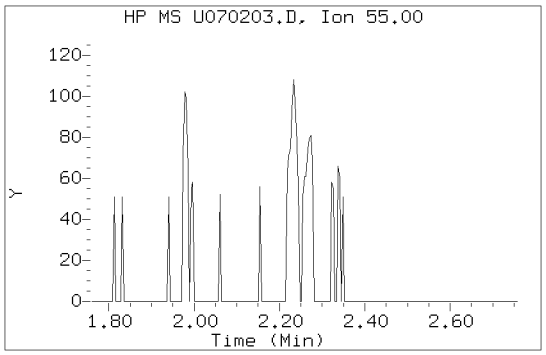
BEFORE

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AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

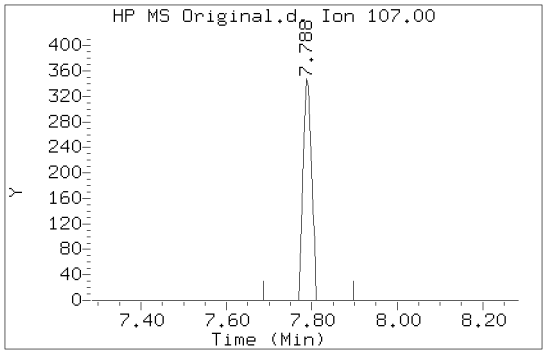


1,2-Dibromoethane (106-93-4)

Reason Code:

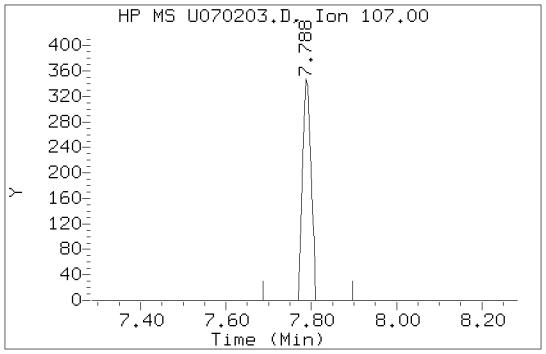
BEFORE

MASS
107
AREA
488
HEIGHT
348
10-Jul-2024
08:51
RUCHA
PATEL



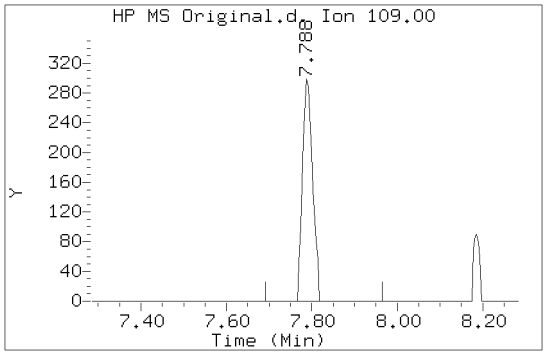
AFTER

MASS
107
AREA
488
HEIGHT
348
10-Jul-2024
09:57
RUCHA
PATEL



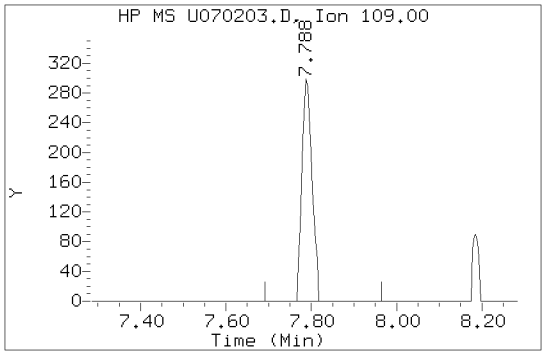
BEFORE

MASS
109
AREA
500
HEIGHT
299
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
109
AREA
500
HEIGHT
299
10-Jul-2024
09:57
RUCHA
PATEL

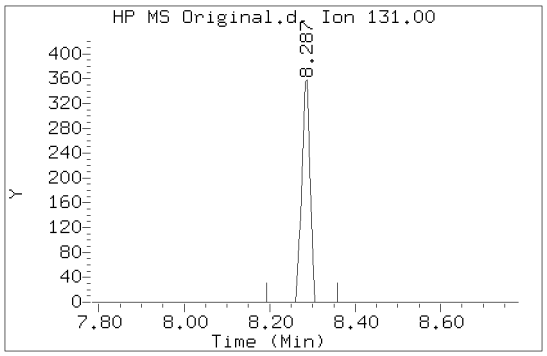


1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

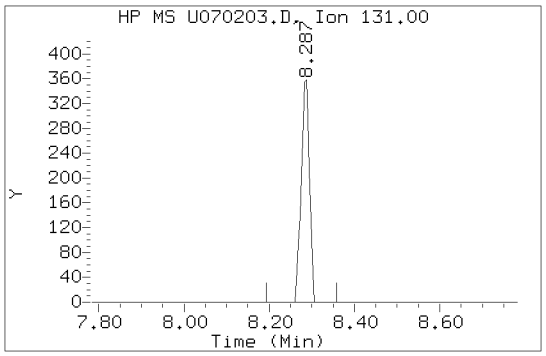
BEFORE

MASS
131
AREA
496
HEIGHT
358
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
131
AREA
496
HEIGHT
358
10-Jul-2024
09:57
RUCHA
PATEL



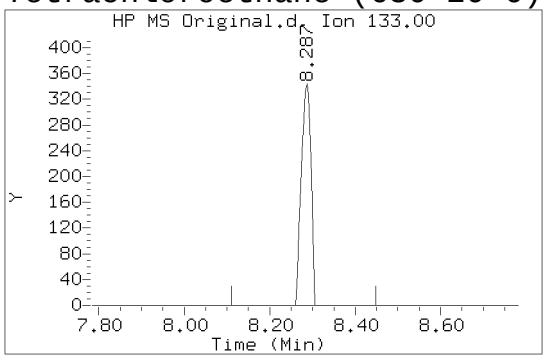
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

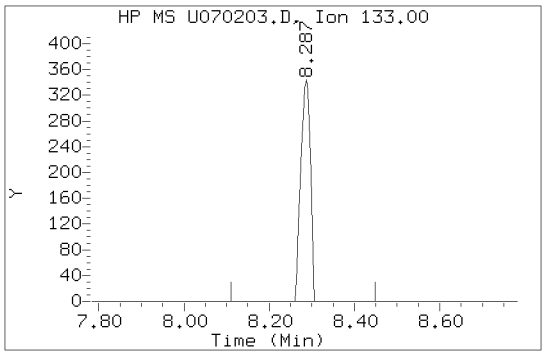
BEFORE

MASS
133
AREA
556
HEIGHT
344
10-Jul-2024
08:51
RUCHA
PATEL



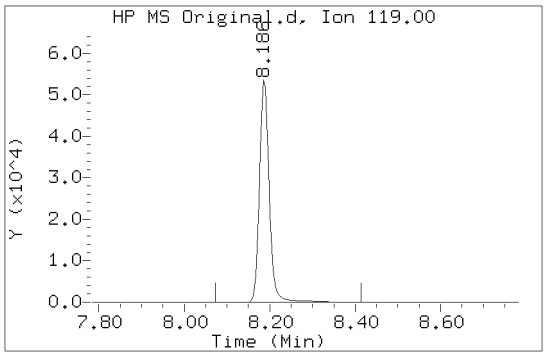
AFTER

MASS
133
AREA
556
HEIGHT
344
10-Jul-2024
09:57
RUCHA
PATEL



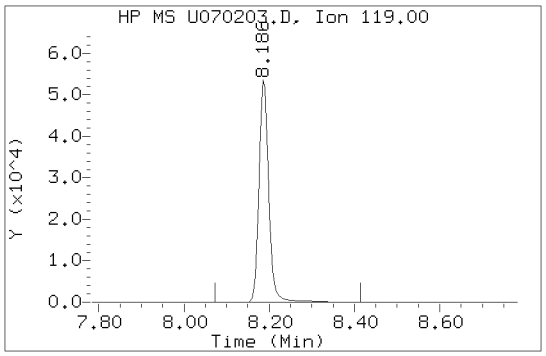
BEFORE

MASS
119
AREA
85018
HEIGHT
53592
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
119
AREA
85018
HEIGHT
53592
10-Jul-2024
09:57
RUCHA
PATEL

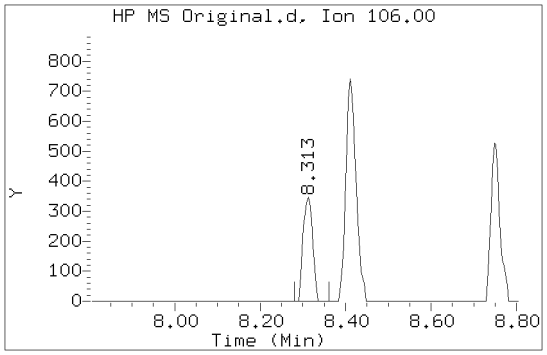


Ethylbenzene (100-41-4)

Reason Code:

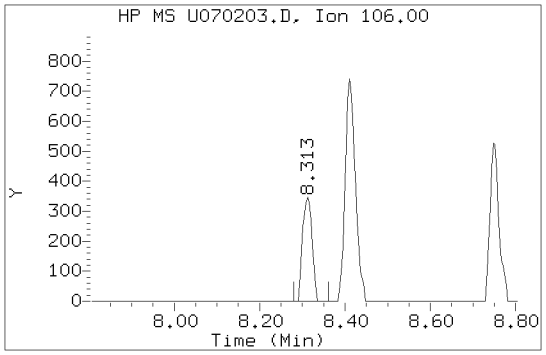
BEFORE

MASS
106
AREA
544
HEIGHT
348
10-Jul-2024
08:51
RUCHA
PATEL



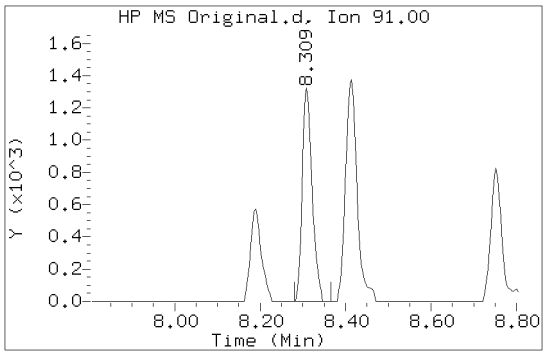
AFTER

MASS
106
AREA
544
HEIGHT
348
10-Jul-2024
09:57
RUCHA
PATEL



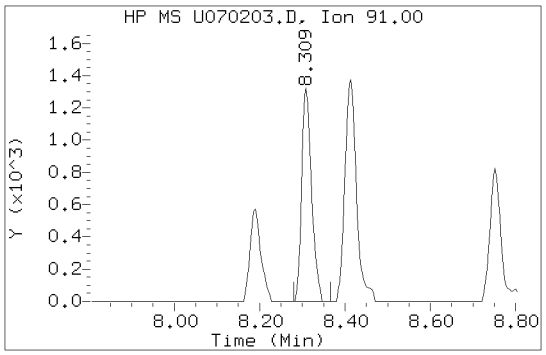
BEFORE

MASS
91
AREA
2157
HEIGHT
1324
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
91
AREA
2157
HEIGHT
1324
10-Jul-2024
09:57
RUCHA
PATEL



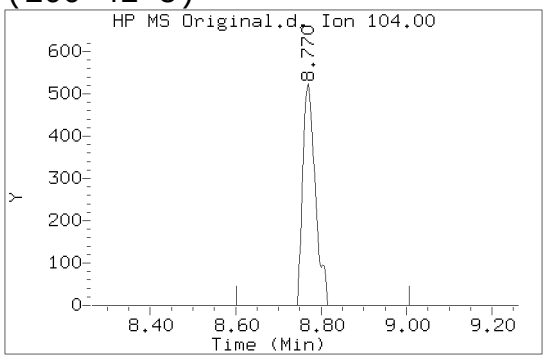
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Styrene (100-42-5)

Reason Code:

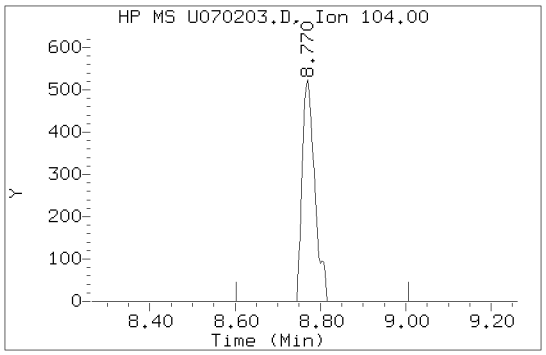
BEFORE

MASS
104
AREA
1091
HEIGHT
524
10-Jul-2024
08:51
RUCHA
PATEL



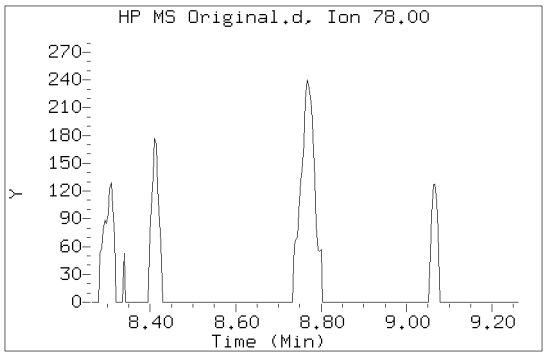
AFTER

MASS
104
AREA
1091
HEIGHT
524
10-Jul-2024
09:57
RUCHA
PATEL



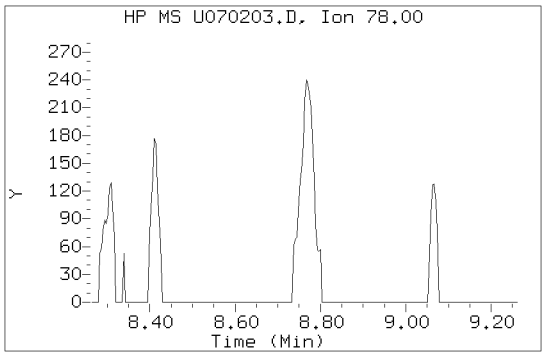
BEFORE

MASS
78
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
78
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

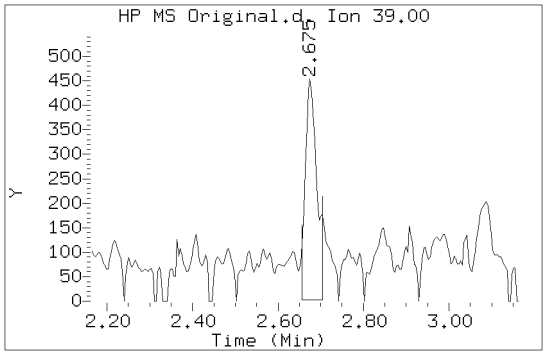


Acetonitrile (75-05-8)

Reason Code:

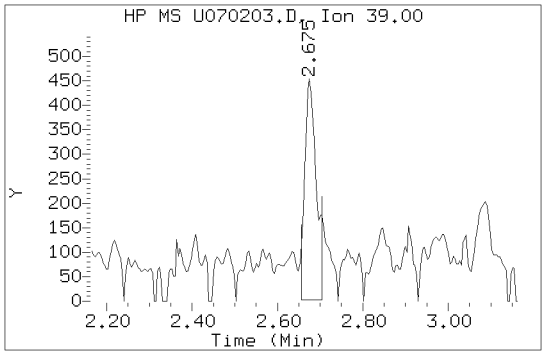
BEFORE

MASS
39
AREA
876
HEIGHT
452
10-Jul-2024
08:51
RUCHA
PATEL



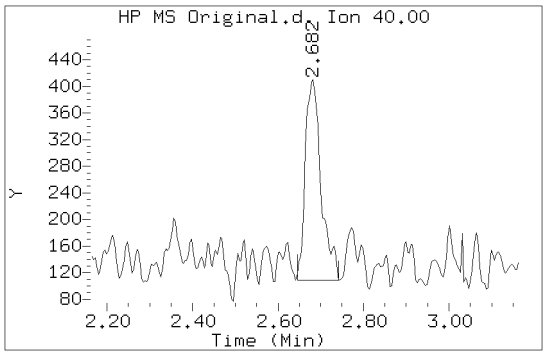
AFTER

MASS
39
AREA
876
HEIGHT
452
10-Jul-2024
09:57
RUCHA
PATEL



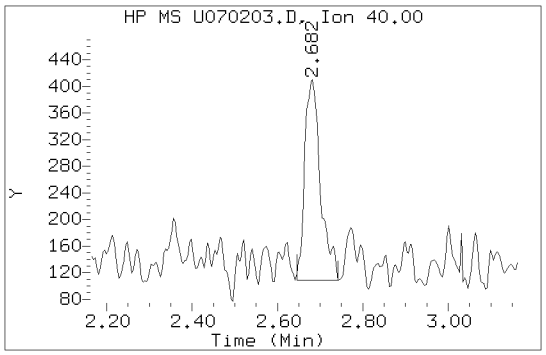
BEFORE

MASS
40
AREA
784
HEIGHT
301
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
40
AREA
784
HEIGHT
301
10-Jul-2024
09:57
RUCHA
PATEL



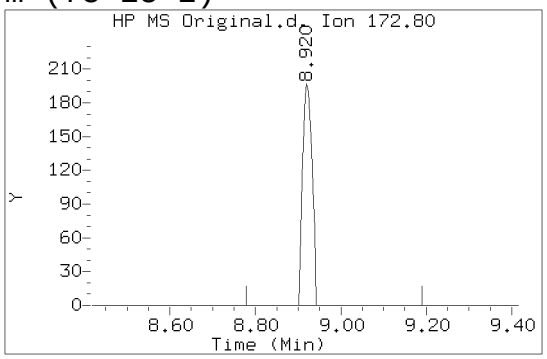
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

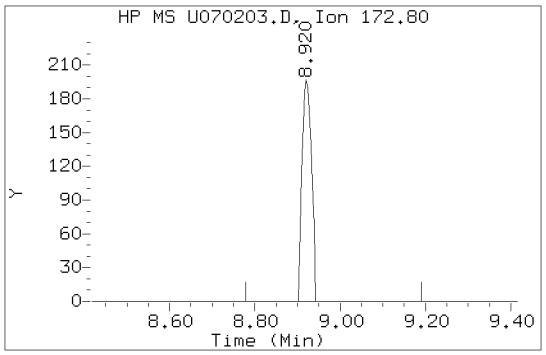
BEFORE

MASS
172.8
AREA
312
HEIGHT
197
10-Jul-2024
08:51
RUCHA
PATEL



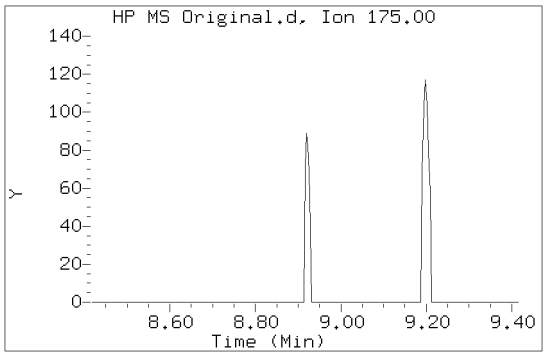
AFTER

MASS
172.8
AREA
312
HEIGHT
197
10-Jul-2024
09:57
RUCHA
PATEL



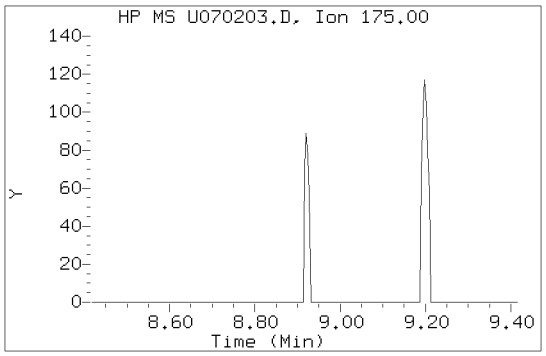
BEFORE

MASS
175
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



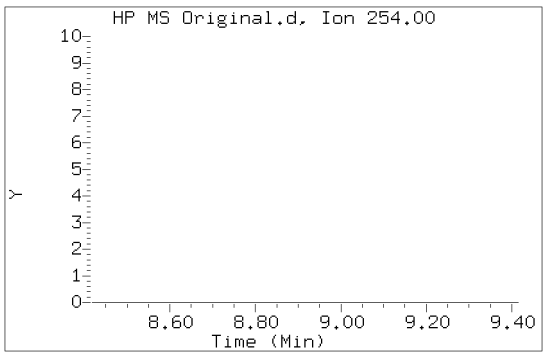
AFTER

MASS
175
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



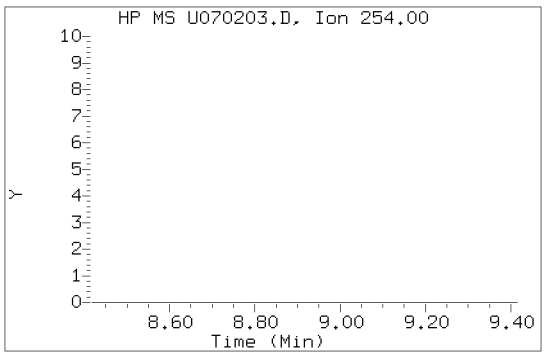
BEFORE

MASS
254
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

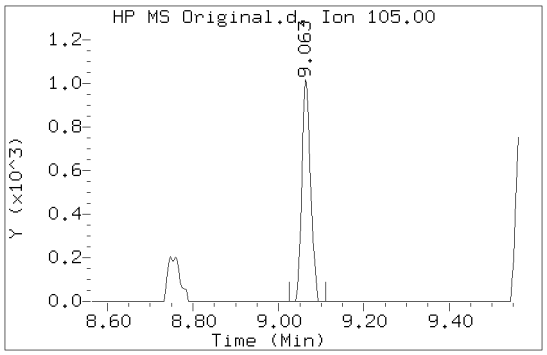


Isopropylbenzene (98-82-8)

Reason Code:

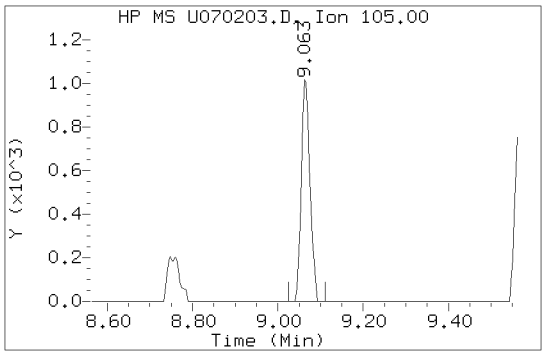
BEFORE

MASS
105
AREA
1461
HEIGHT
1018
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
105
AREA
1461
HEIGHT
1018
10-Jul-2024
09:57
RUCHA
PATEL



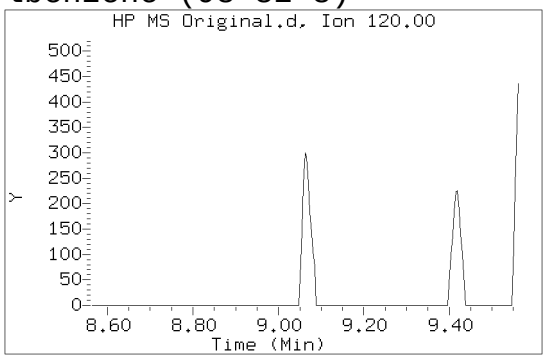
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Isopropylbenzene (98-82-8)

Reason Code:

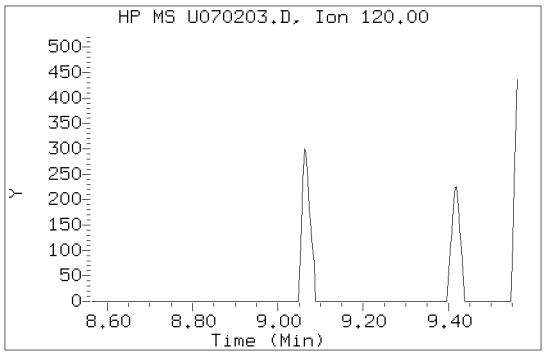
BEFORE

MASS
120
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
120
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

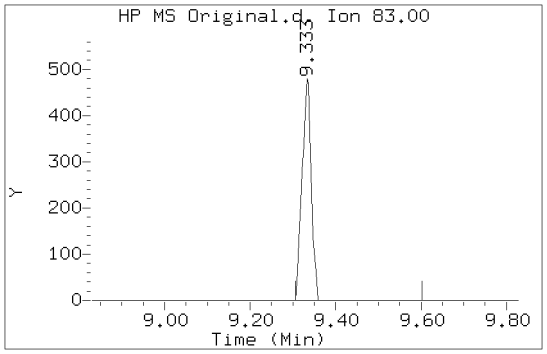


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

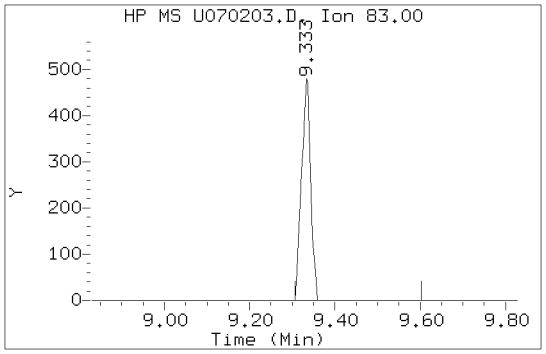
BEFORE

MASS
83
AREA
733
HEIGHT
480
10-Jul-2024
08:51
RUCHA
PATEL



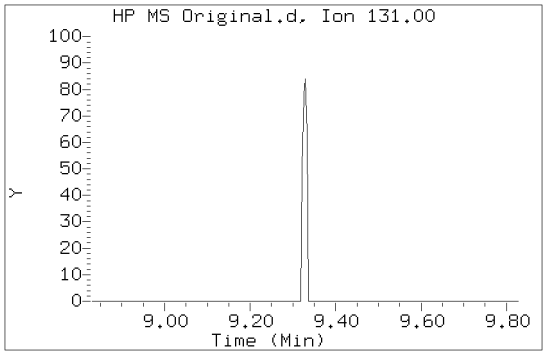
AFTER

MASS
83
AREA
733
HEIGHT
480
10-Jul-2024
09:57
RUCHA
PATEL



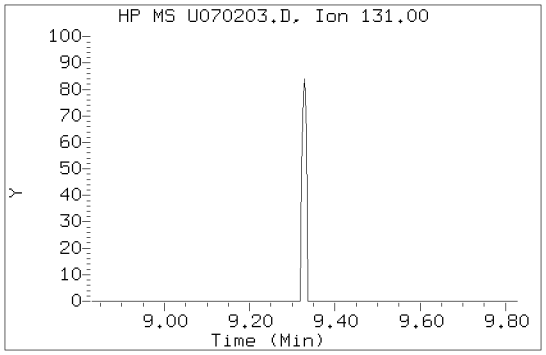
BEFORE

MASS
131
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



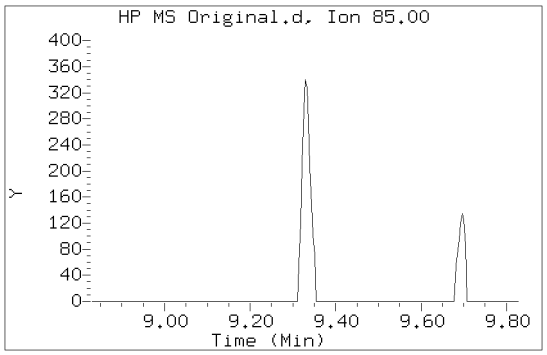
AFTER

MASS
131
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



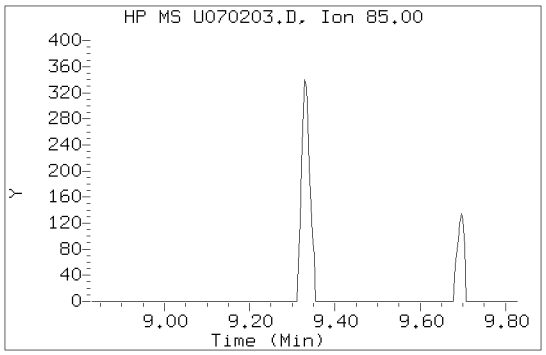
BEFORE

MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

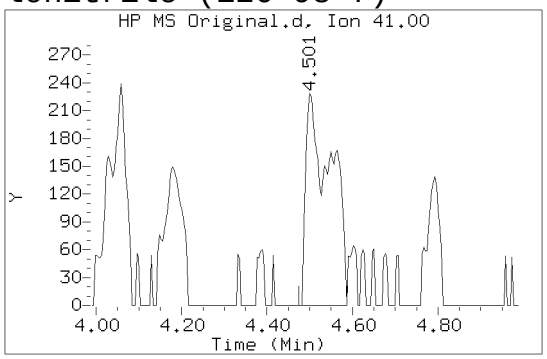


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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

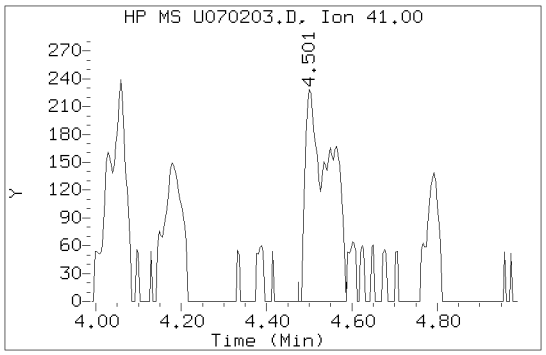
Methacrylonitrile (126-98-7)

Reason Code:

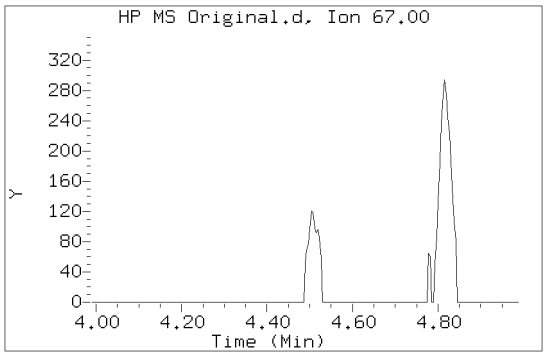
BEFORE
MASS
41
AREA
926
HEIGHT
229
10-Jul-2024
08:51
RUCHA
PATEL



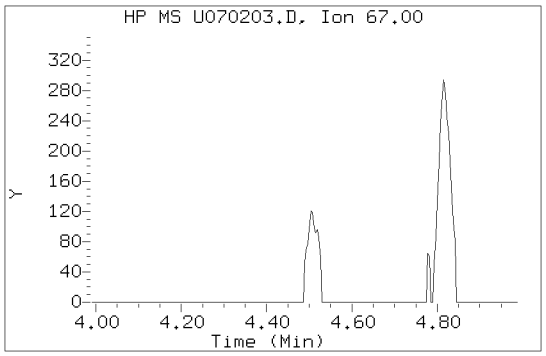
AFTER
MASS
41
AREA
926
HEIGHT
229
10-Jul-2024
09:57
RUCHA
PATEL



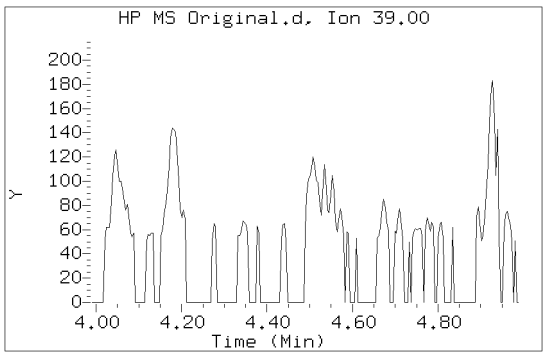
BEFORE
MASS
67
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



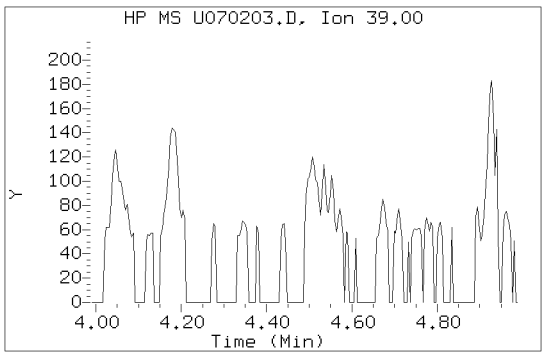
AFTER
MASS
67
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
39
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



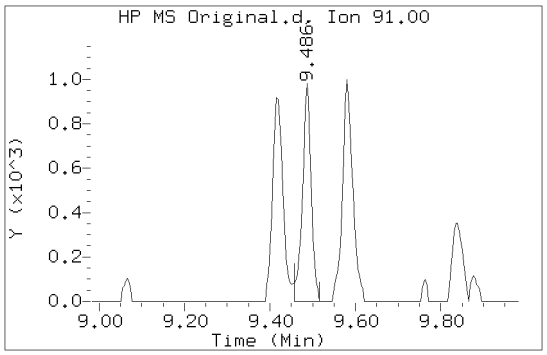
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MASS
39
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



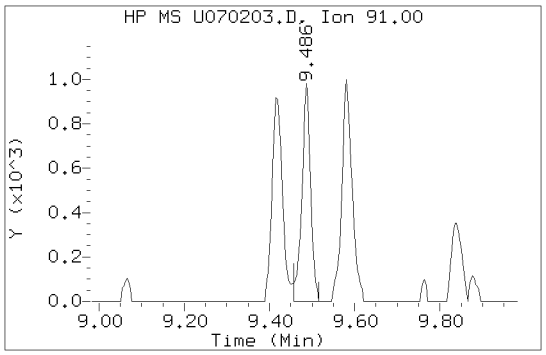
2-Chlorotoluene (95-49-8)

Reason Code:

BEFORE
MASS
91
AREA
1431
HEIGHT
982
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
91
AREA
1431
HEIGHT
982
10-Jul-2024
09:57
RUCHA
PATEL



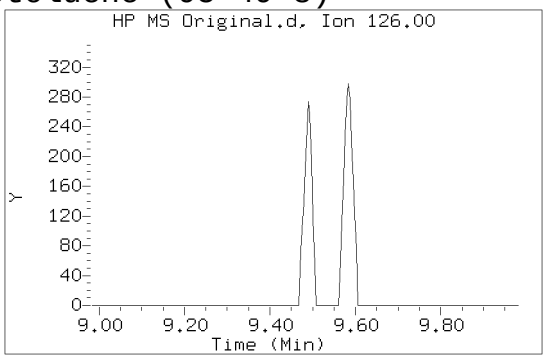
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Chlorotoluene (95-49-8)

Reason Code:

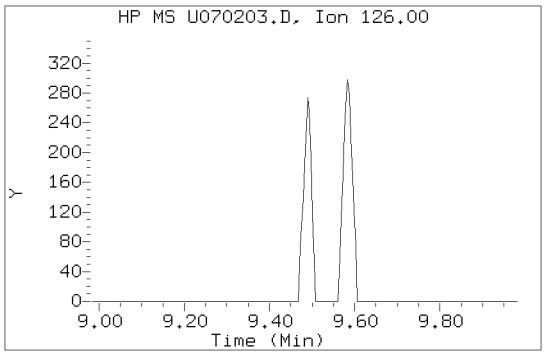
BEFORE

MASS
126
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
126
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

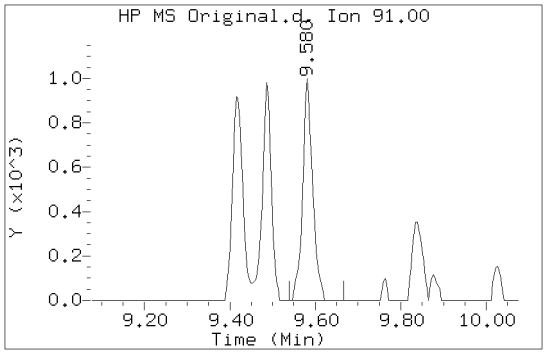


4-Chlorotoluene (106-43-4)

Reason Code:

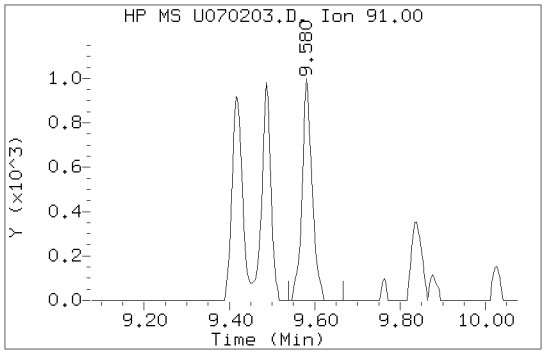
BEFORE

MASS
91
AREA
1665
HEIGHT
999
10-Jul-2024
08:51
RUCHA
PATEL



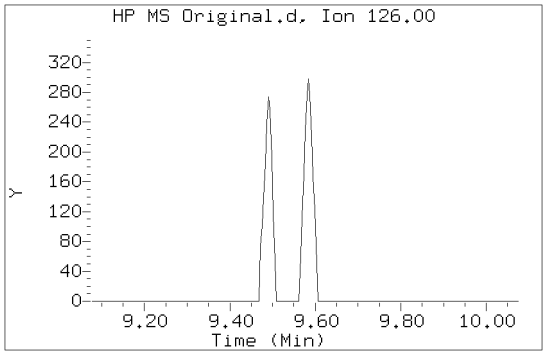
AFTER

MASS
91
AREA
1665
HEIGHT
999
10-Jul-2024
09:57
RUCHA
PATEL



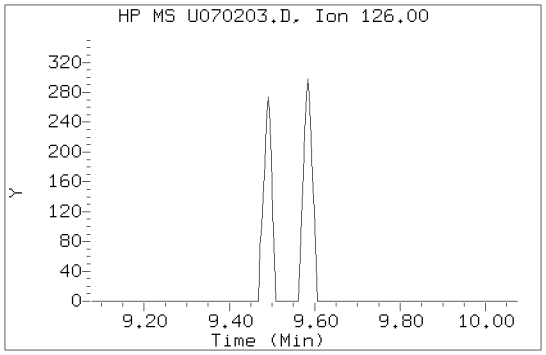
BEFORE

MASS
126
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
126
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

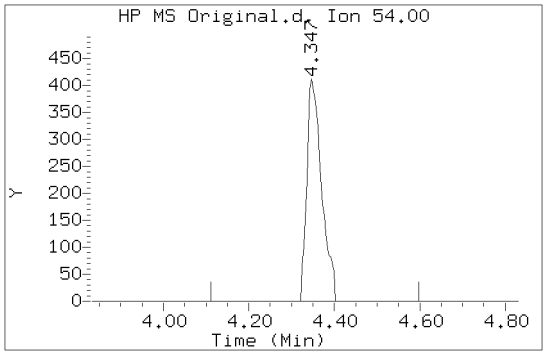


Propionitrile (107-12-0)

Reason Code:

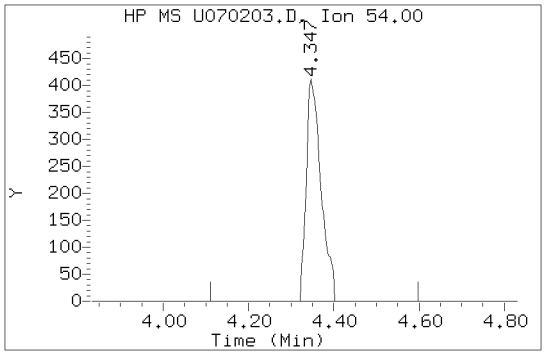
BEFORE

MASS
54
AREA
1001
HEIGHT
412
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
54
AREA
1001
HEIGHT
412
10-Jul-2024
09:57
RUCHA
PATEL



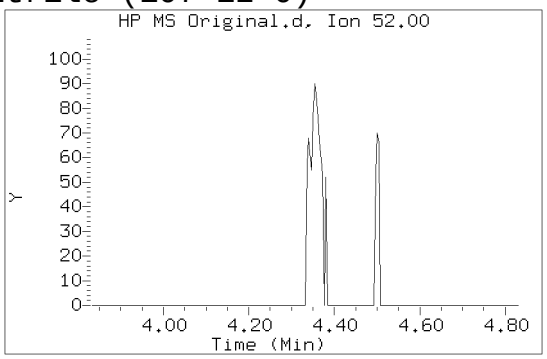
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

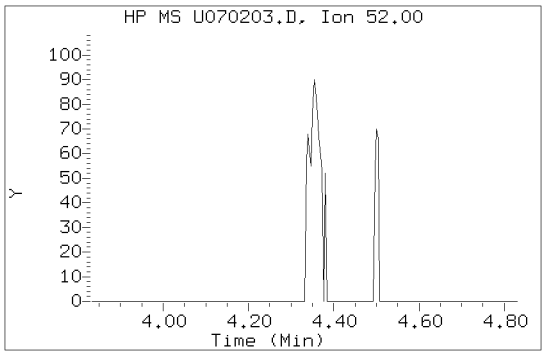
BEFORE

MASS
52
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



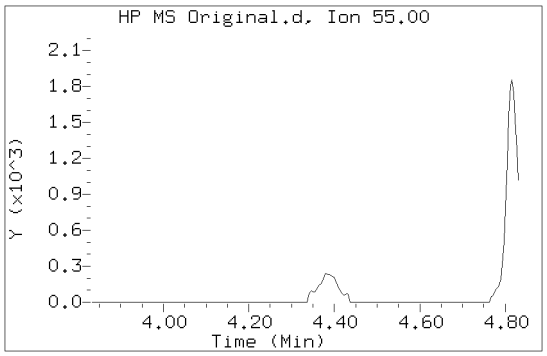
AFTER

MASS
52
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



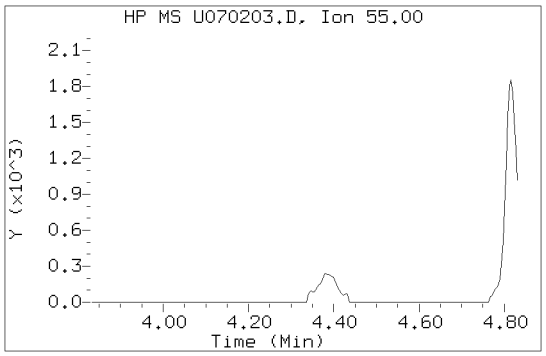
BEFORE

MASS
55
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

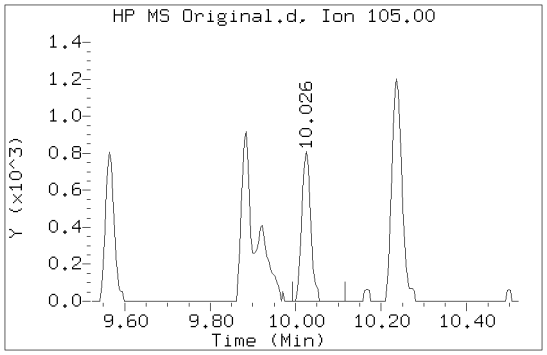


sec-Butylbenzene (135-98-8)

Reason Code:

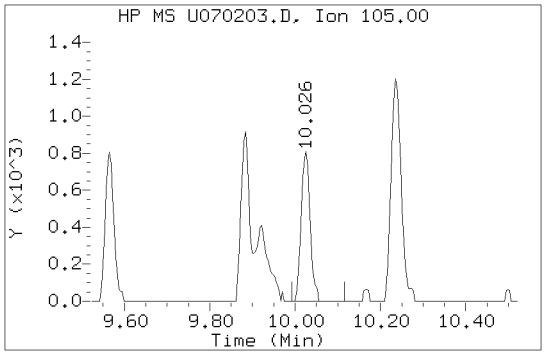
BEFORE

MASS
105
AREA
1204
HEIGHT
810
10-Jul-2024
08:51
RUCHA
PATEL



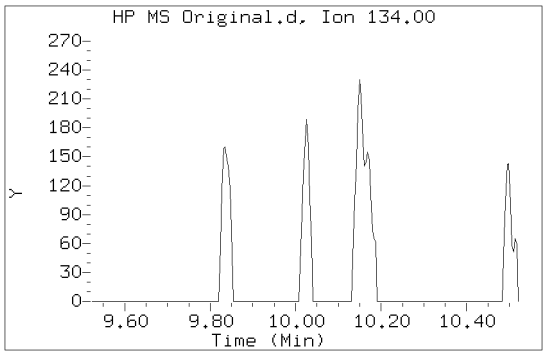
AFTER

MASS
105
AREA
1204
HEIGHT
810
10-Jul-2024
09:57
RUCHA
PATEL



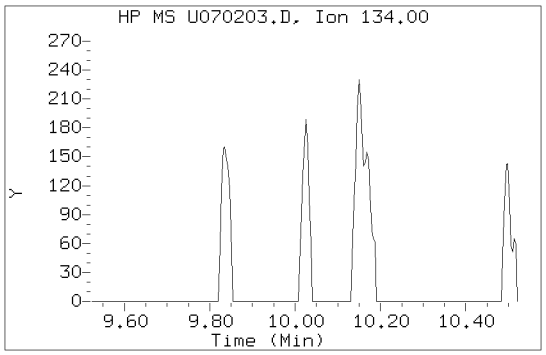
BEFORE

MASS
134
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
134
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



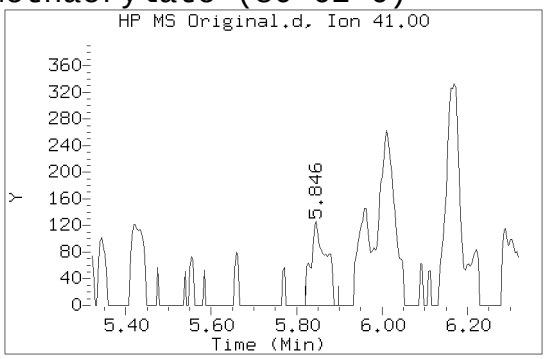
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

Reason Code:

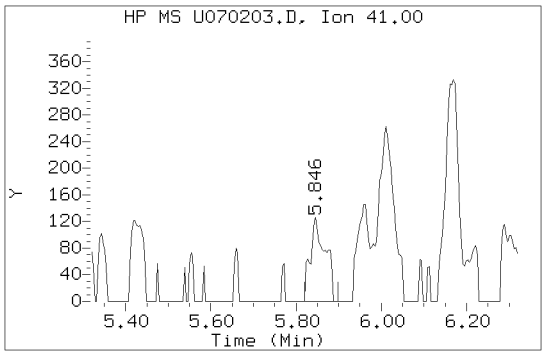
BEFORE

MASS
41
AREA
306
HEIGHT
126
10-Jul-2024
08:51
RUCHA
PATEL



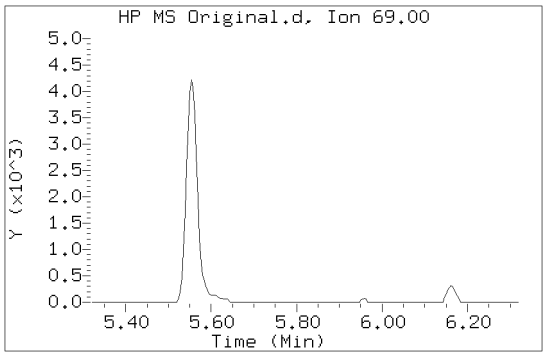
AFTER

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AREA
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HEIGHT
126
10-Jul-2024
09:57
RUCHA
PATEL



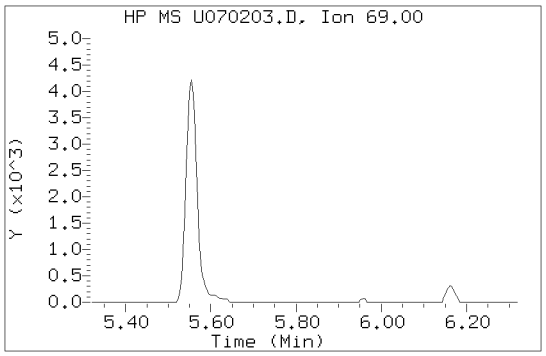
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10-Jul-2024
08:51
RUCHA
PATEL



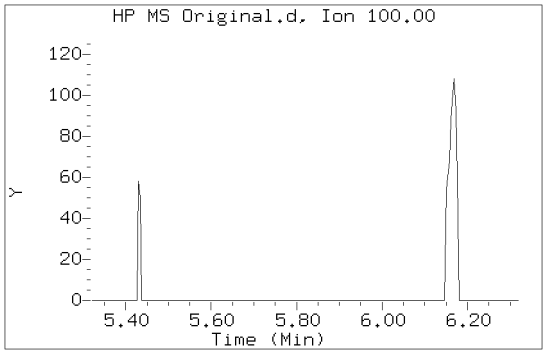
AFTER

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10-Jul-2024
09:57
RUCHA
PATEL



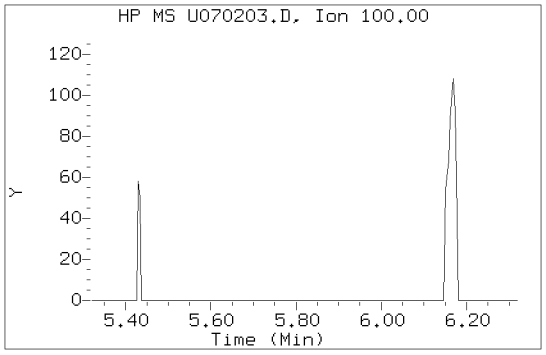
BEFORE

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100
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0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
100
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

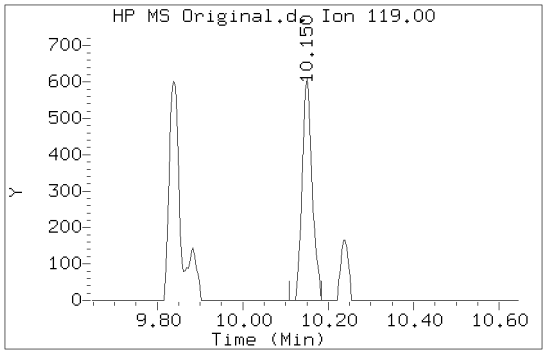


p-Isopropyltoluene (99-87-6)

Reason Code:

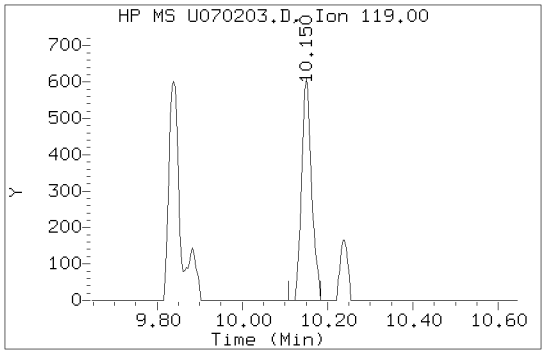
BEFORE

MASS
119
AREA
1011
HEIGHT
609
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
119
AREA
1011
HEIGHT
609
10-Jul-2024
09:57
RUCHA
PATEL



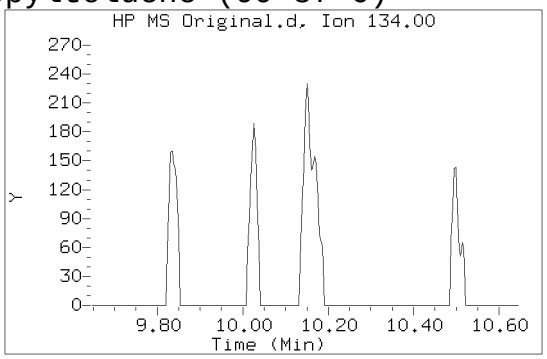
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

p-Isopropyltoluene (99-87-6)

Reason Code:

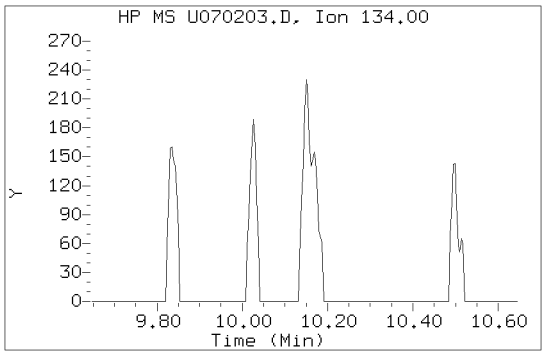
BEFORE

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134
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



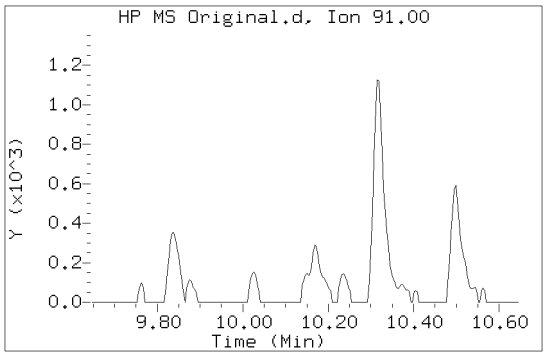
AFTER

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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



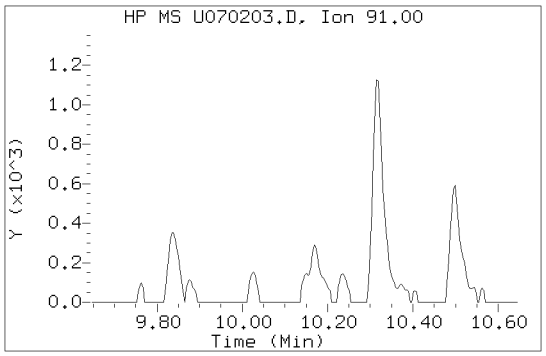
BEFORE

MASS
91
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HEIGHT
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10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

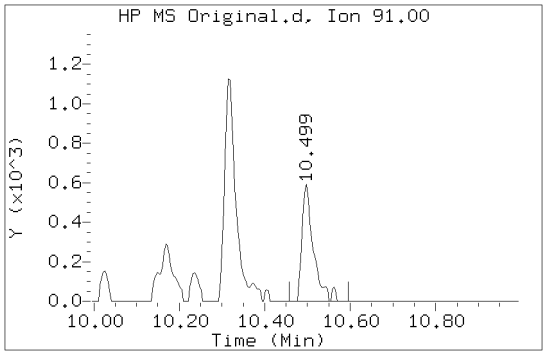


n-Butylbenzene (104-51-8)

Reason Code:

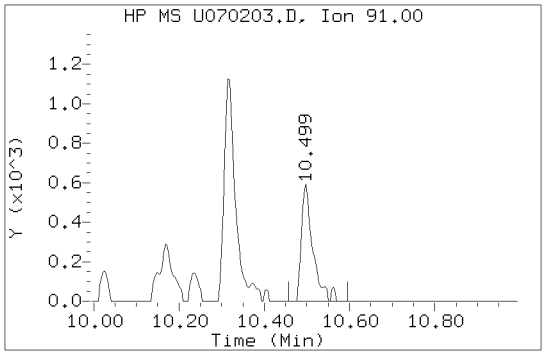
BEFORE

MASS
91
AREA
1121
HEIGHT
592
10-Jul-2024
08:51
RUCHA
PATEL



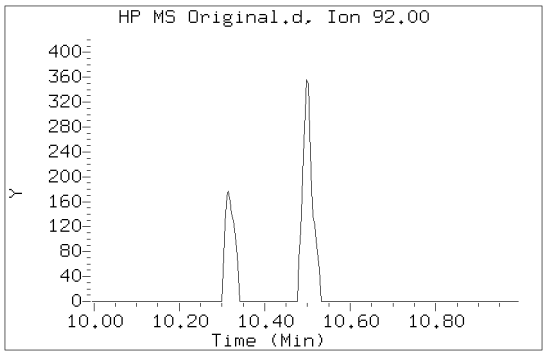
AFTER

MASS
91
AREA
1121
HEIGHT
592
10-Jul-2024
09:57
RUCHA
PATEL



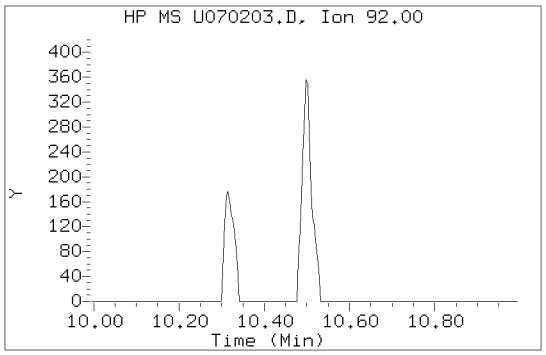
BEFORE

MASS
92
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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92
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



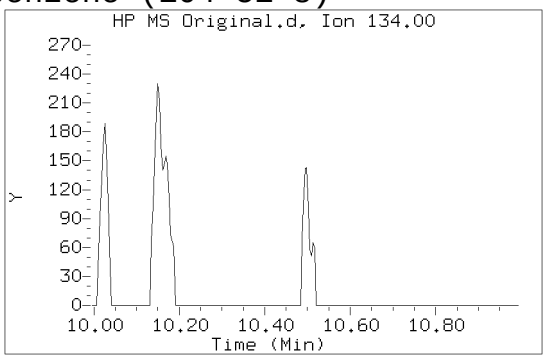
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butylbenzene (104-51-8)

Reason Code:

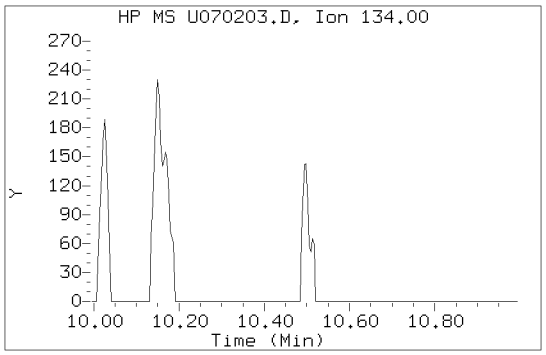
BEFORE

MASS
134
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HEIGHT
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10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
134
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

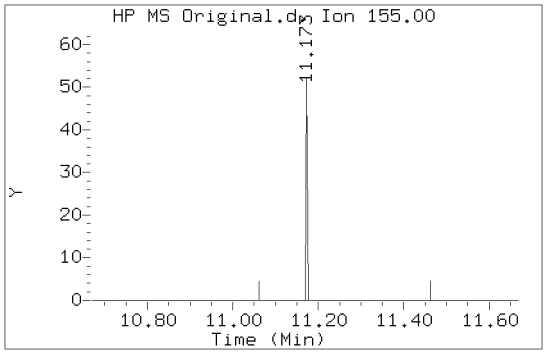


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

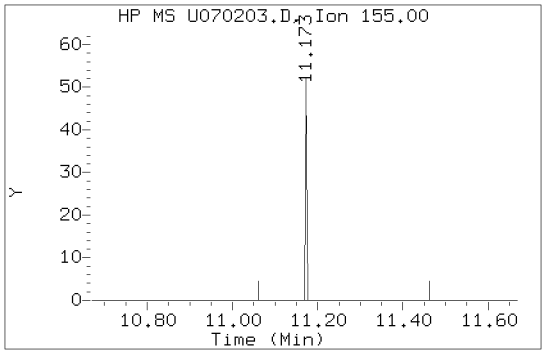
BEFORE

MASS
155
AREA
11
HEIGHT
52
10-Jul-2024
08:51
RUCHA
PATEL



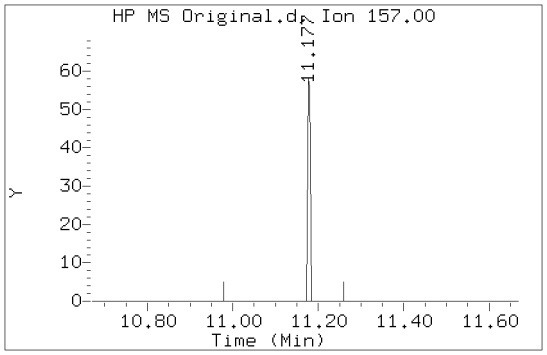
AFTER

MASS
155
AREA
11
HEIGHT
52
10-Jul-2024
09:57
RUCHA
PATEL



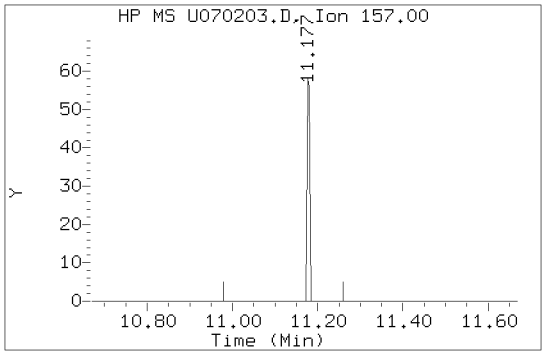
BEFORE

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58
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08:51
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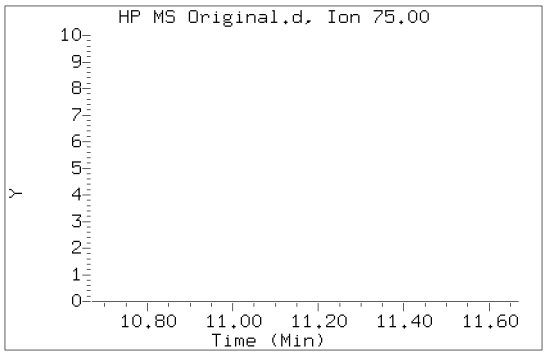
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09:57
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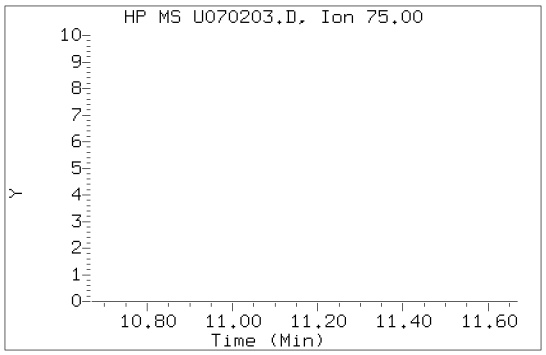
BEFORE

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75
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0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



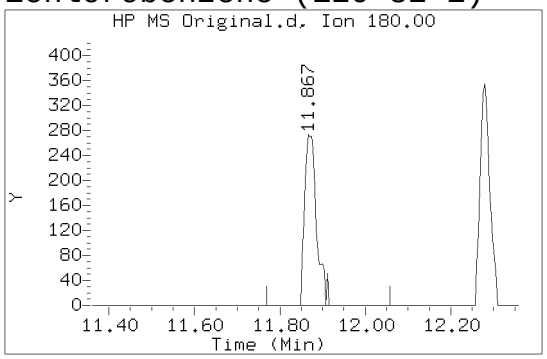
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

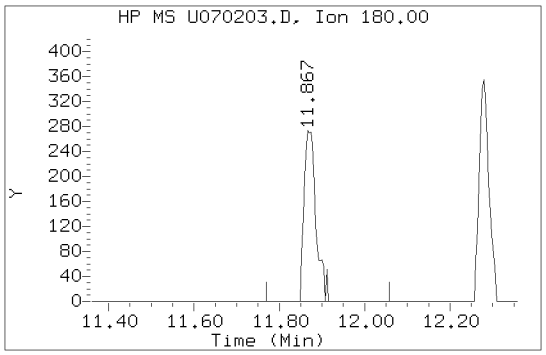
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AREA
546
HEIGHT
274
10-Jul-2024
08:51
RUCHA
PATEL



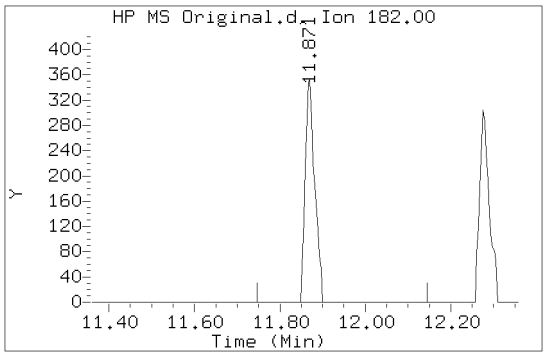
AFTER

MASS
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AREA
546
HEIGHT
274
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09:57
RUCHA
PATEL



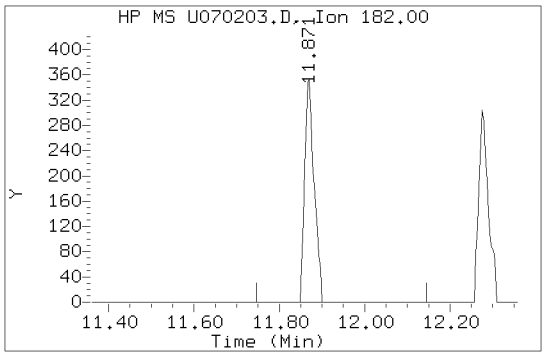
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559
HEIGHT
352
10-Jul-2024
08:51
RUCHA
PATEL



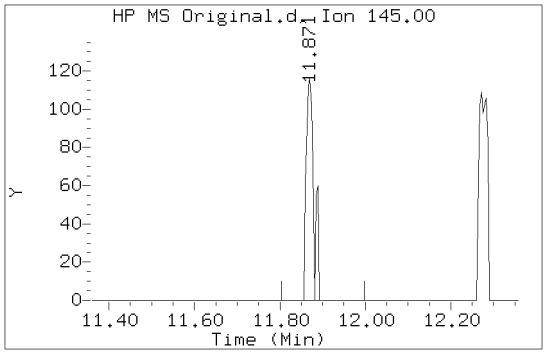
AFTER

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AREA
559
HEIGHT
352
10-Jul-2024
09:57
RUCHA
PATEL



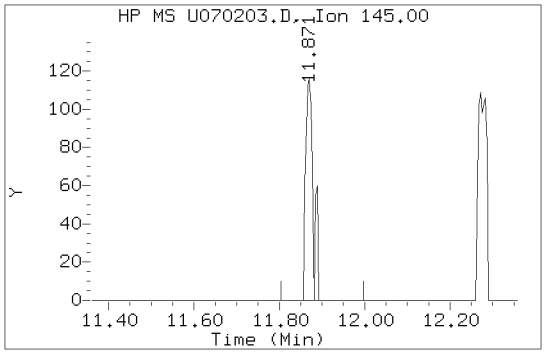
BEFORE

MASS
145
AREA
150
HEIGHT
116
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
145
AREA
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HEIGHT
116
10-Jul-2024
09:57
RUCHA
PATEL

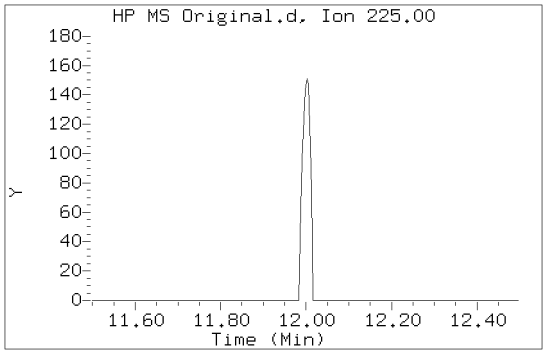


Hexachlorobutadiene (87-68-3)

Reason Code:

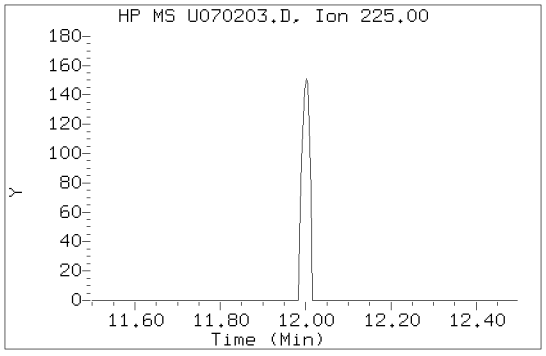
BEFORE

MASS
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AREA
206
HEIGHT
151
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
225
AREA
206
HEIGHT
151
10-Jul-2024
09:57
RUCHA
PATEL



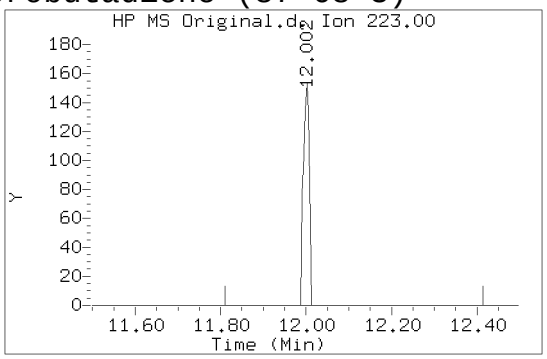
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

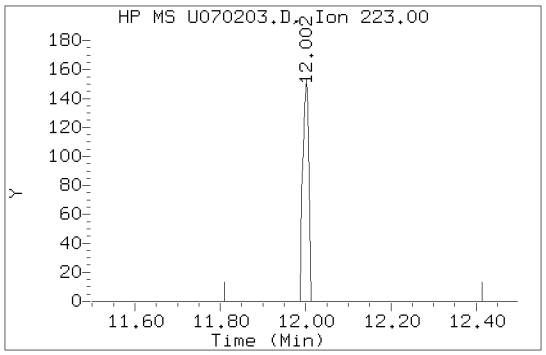
BEFORE

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223
AREA
154
HEIGHT
153
10-Jul-2024
08:51
RUCHA
PATEL



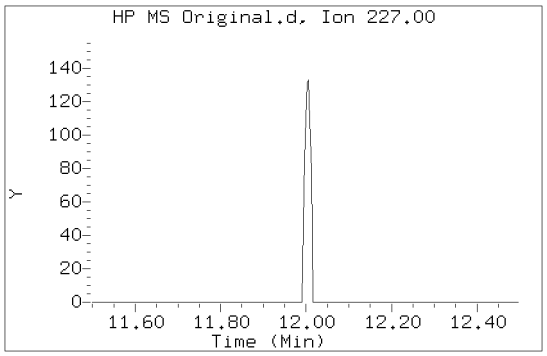
AFTER

MASS
223
AREA
154
HEIGHT
153
10-Jul-2024
09:57
RUCHA
PATEL



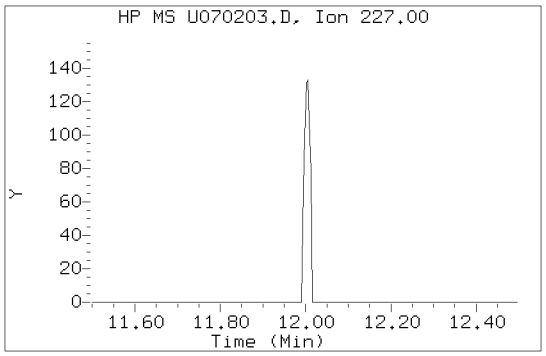
BEFORE

MASS
227
AREA
139
HEIGHT
133
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
227
AREA
139
HEIGHT
133
10-Jul-2024
09:57
RUCHA
PATEL

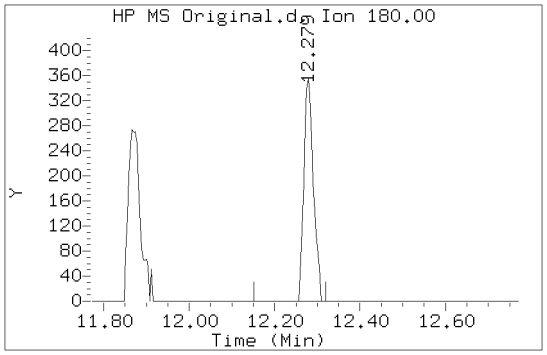


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

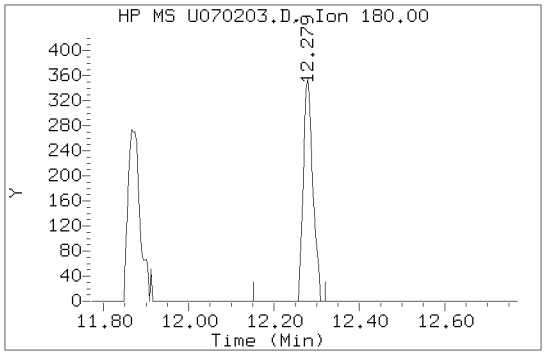
BEFORE

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AREA
563
HEIGHT
355
10-Jul-2024
08:51
RUCHA
PATEL



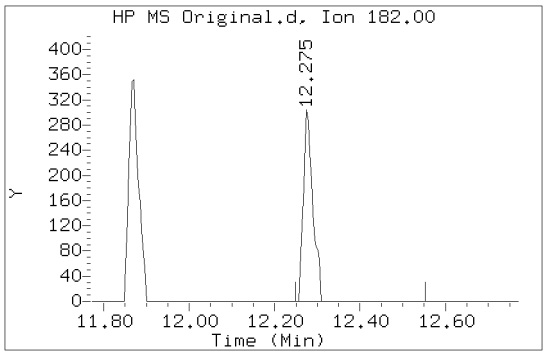
AFTER

MASS
180
AREA
563
HEIGHT
355
10-Jul-2024
09:57
RUCHA
PATEL



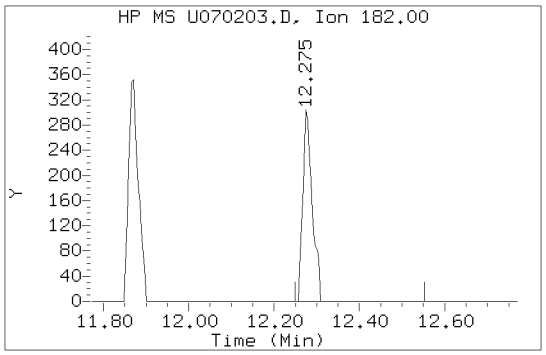
BEFORE

MASS
182
AREA
476
HEIGHT
304
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
182
AREA
476
HEIGHT
304
10-Jul-2024
09:57
RUCHA
PATEL



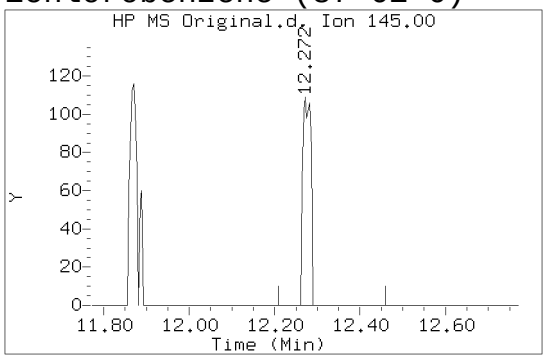
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

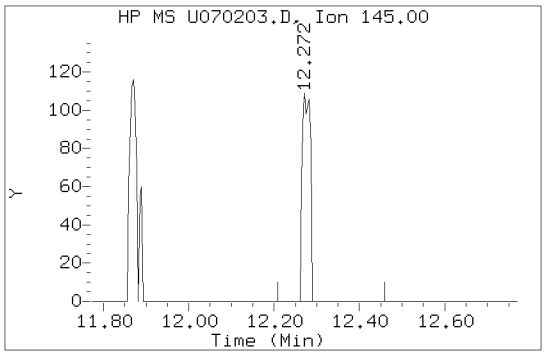
BEFORE

MASS
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AREA
149
HEIGHT
109
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
145
AREA
149
HEIGHT
109
10-Jul-2024
09:57
RUCHA
PATEL

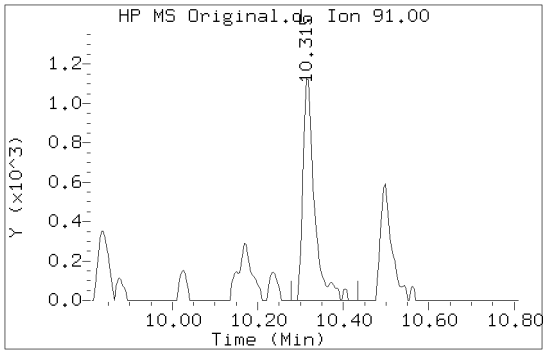


Benzyl Chloride (100-44-7)

Reason Code:

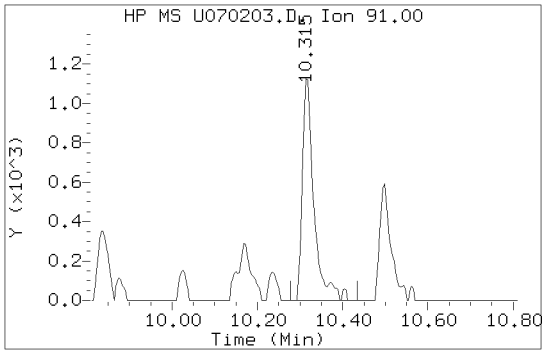
BEFORE

MASS
91
AREA
2147
HEIGHT
1126
10-Jul-2024
08:51
RUCHA
PATEL



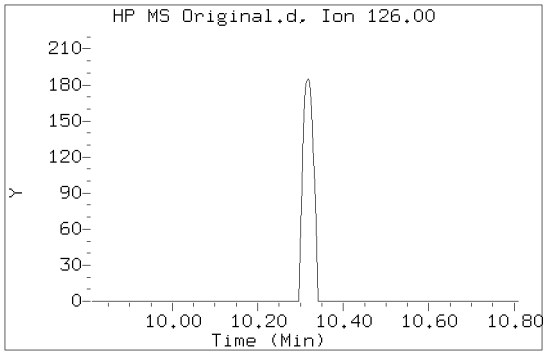
AFTER

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AREA
2147
HEIGHT
1126
10-Jul-2024
09:57
RUCHA
PATEL



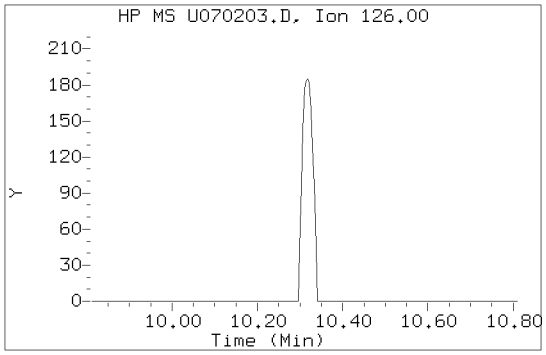
BEFORE

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10-Jul-2024
08:51
RUCHA
PATEL



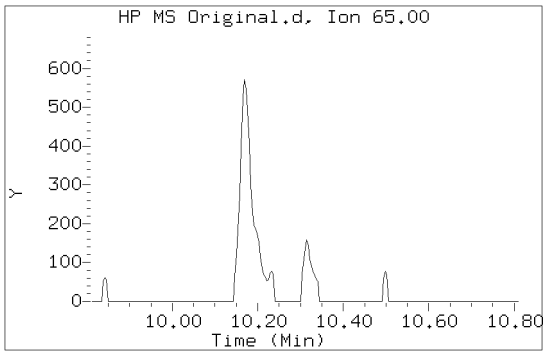
AFTER

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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



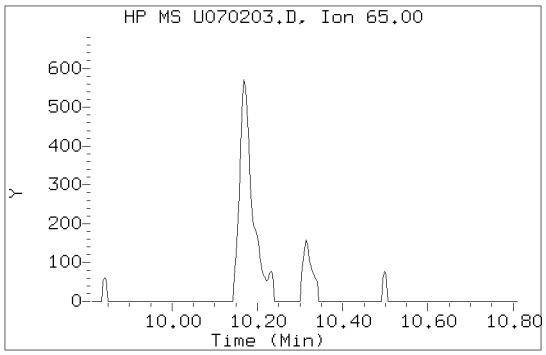
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

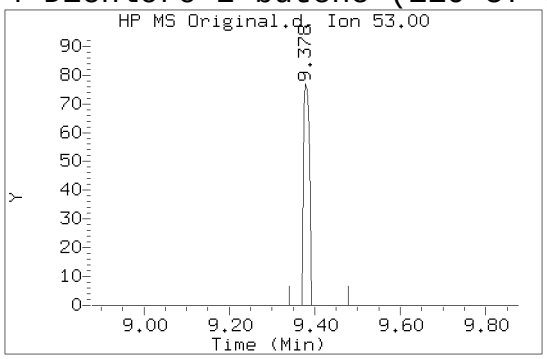
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

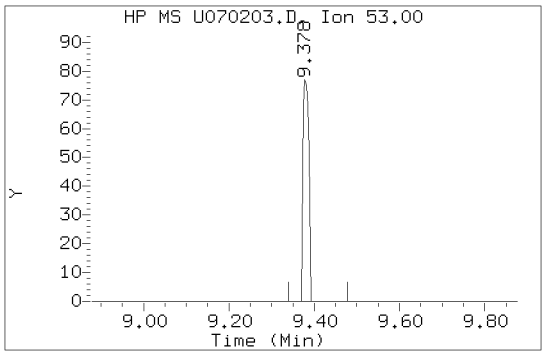
trans-1,4-Dichloro-2-butene (110-57-6)

BEFORE
MASS
53
AREA
76
HEIGHT
77
10-Jul-2024
08:51
RUCHA
PATEL

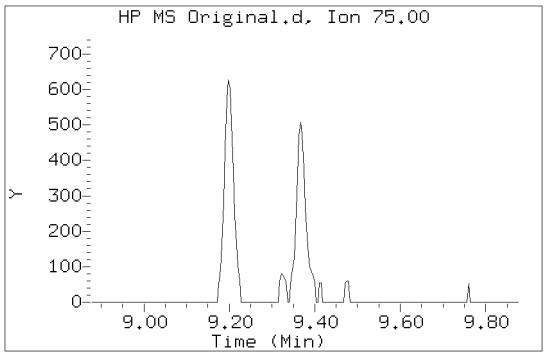


Reason Code:

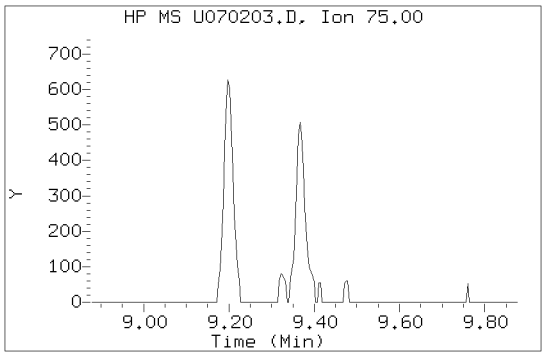
AFTER
MASS
53
AREA
76
HEIGHT
77
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
75
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL

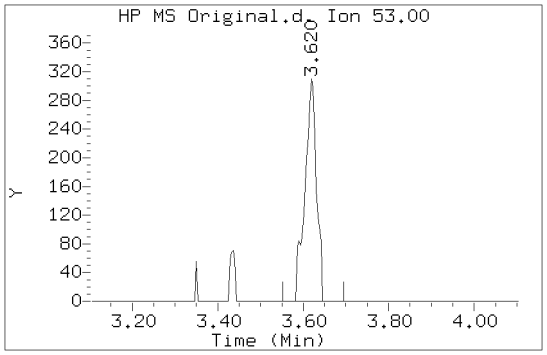


AFTER
MASS
75
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



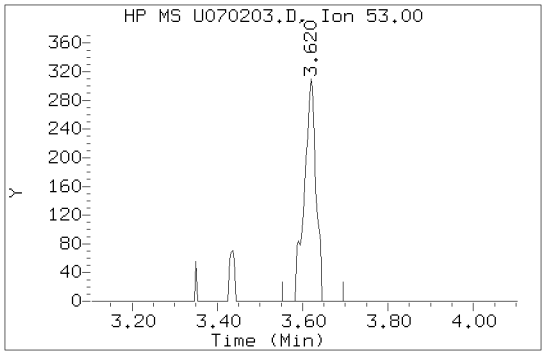
Chloroprene (126-99-8)

BEFORE
MASS
53
AREA
587
HEIGHT
310
10-Jul-2024
08:51
RUCHA
PATEL

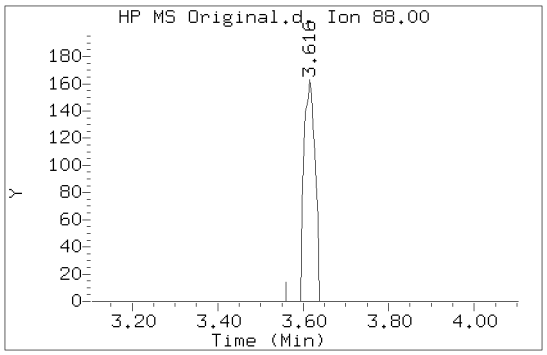


Reason Code:

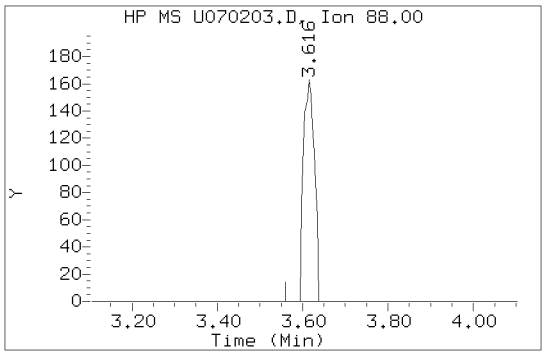
AFTER
MASS
53
AREA
587
HEIGHT
310
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
88
AREA
296
HEIGHT
163
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
88
AREA
296
HEIGHT
163
10-Jul-2024
09:57
RUCHA
PATEL

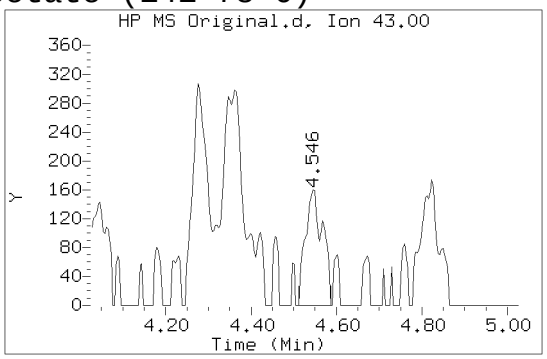


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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

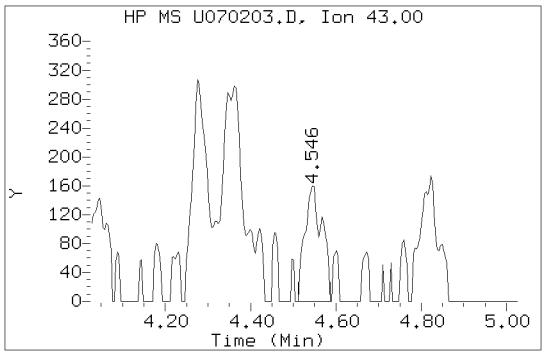
Ethyl Acetate (141-78-6)

Reason Code:

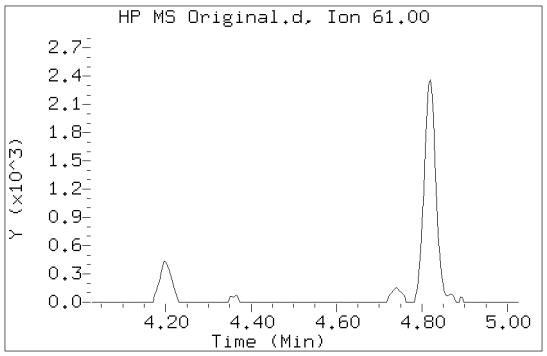
BEFORE
MASS
43
AREA
455
HEIGHT
160
10-Jul-2024
08:51
RUCHA
PATEL



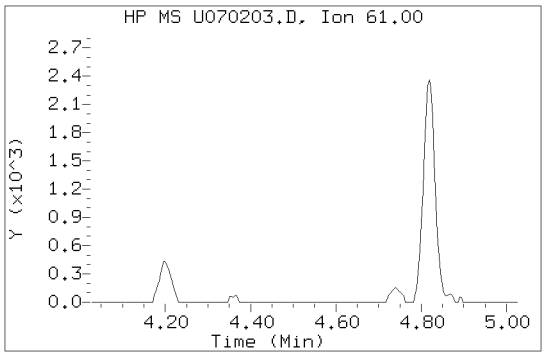
AFTER
MASS
43
AREA
455
HEIGHT
160
10-Jul-2024
09:57
RUCHA
PATEL



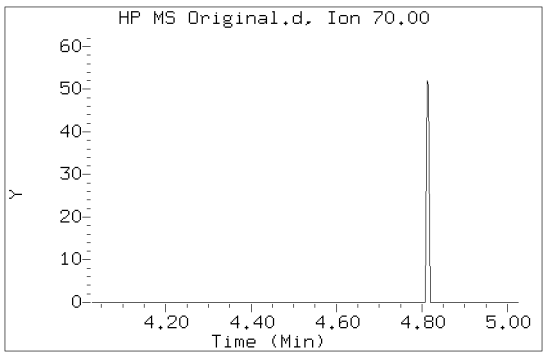
BEFORE
MASS
61
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



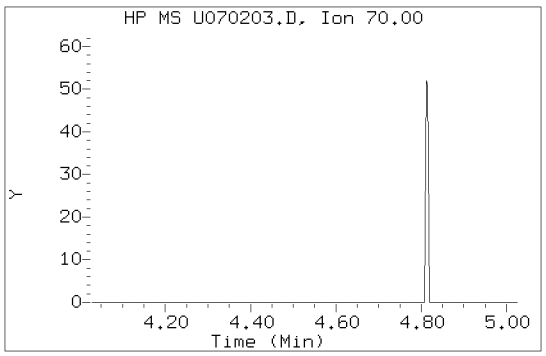
AFTER
MASS
61
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
70
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



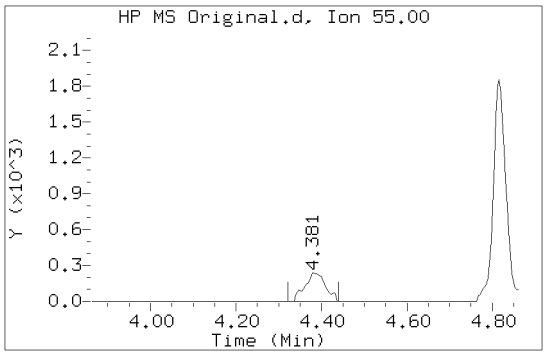
AFTER
MASS
70
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



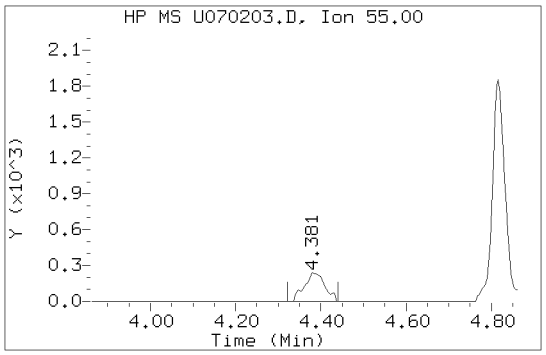
Methyl Acrylate (96-33-3)

Reason Code:

BEFORE
MASS
55
AREA
799
HEIGHT
240
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
55
AREA
799
HEIGHT
240
10-Jul-2024
09:57
RUCHA
PATEL

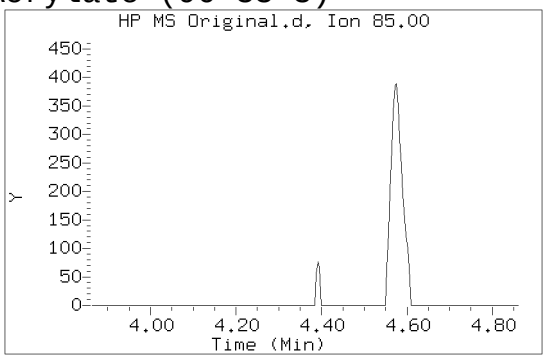


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

BEFORE

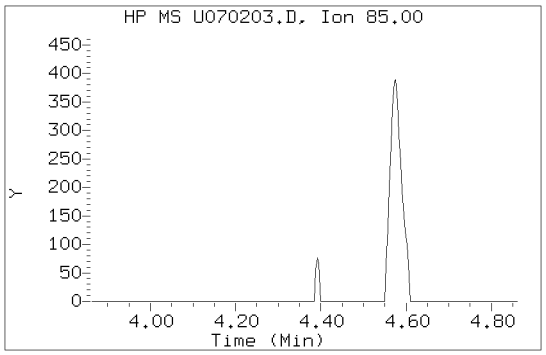
MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

AFTER

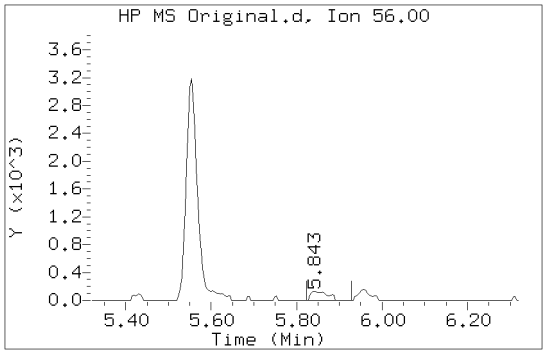
MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



n-Butanol (71-36-3)

BEFORE

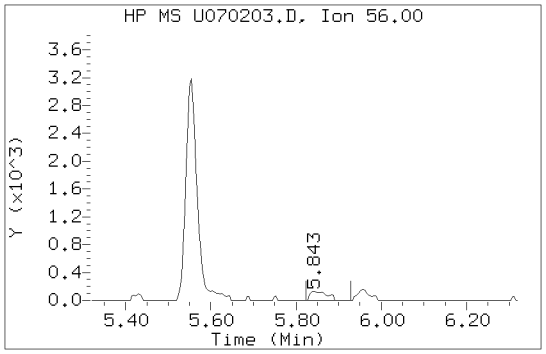
MASS
56
AREA
351
HEIGHT
128
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

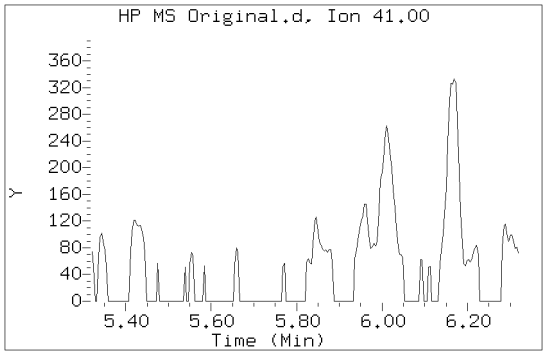
AFTER

MASS
56
AREA
351
HEIGHT
128
10-Jul-2024
09:57
RUCHA
PATEL



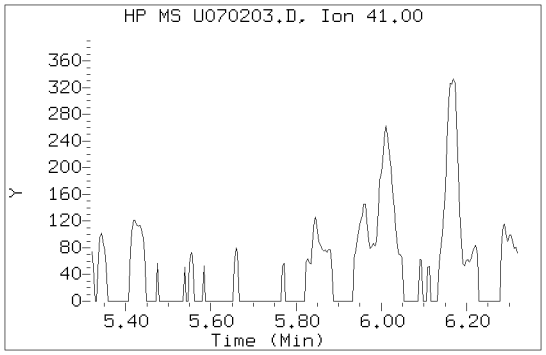
BEFORE

MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

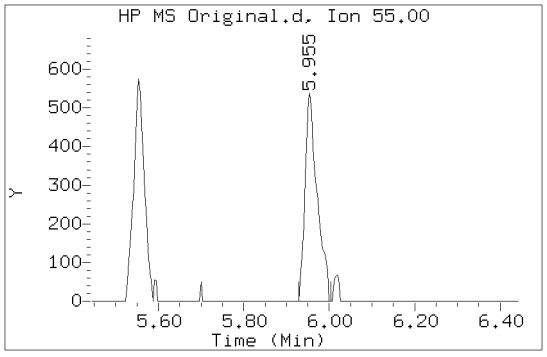
MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



Ethyl Acrylate (140-88-5)

BEFORE

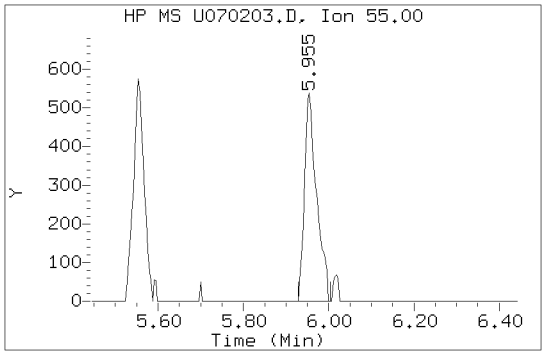
MASS
55
AREA
1084
HEIGHT
539
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

AFTER

MASS
55
AREA
1084
HEIGHT
539
10-Jul-2024
09:57
RUCHA
PATEL

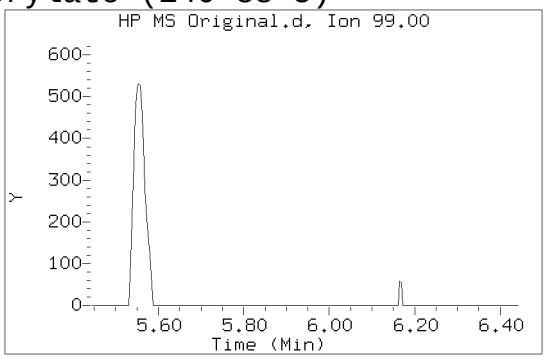


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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

BEFORE

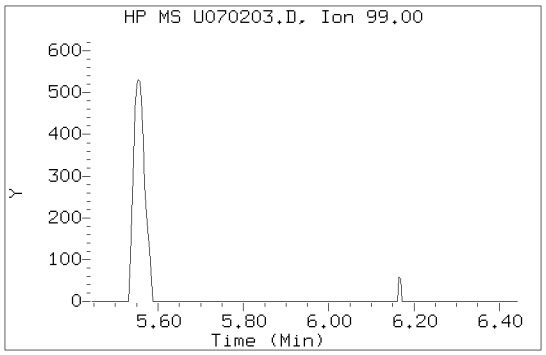
MASS
99
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

AFTER

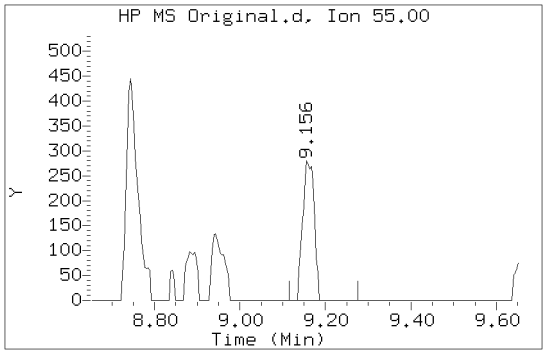
MASS
99
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



Cyclohexanone (108-94-1)

BEFORE

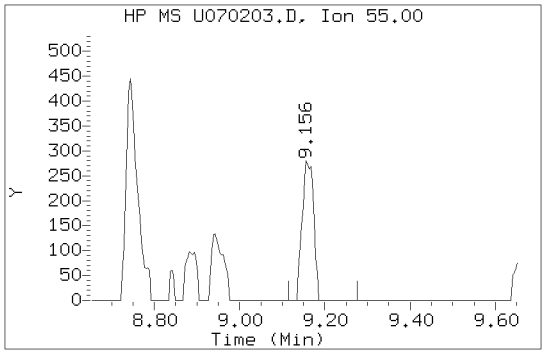
MASS
55
AREA
535
HEIGHT
280
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

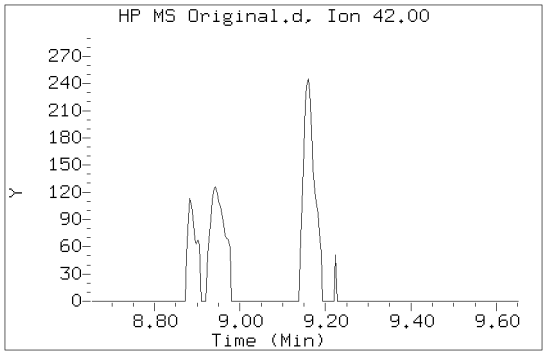
AFTER

MASS
55
AREA
535
HEIGHT
280
10-Jul-2024
09:57
RUCHA
PATEL



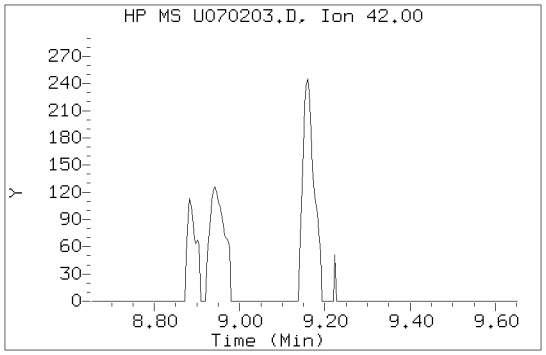
BEFORE

MASS
42
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



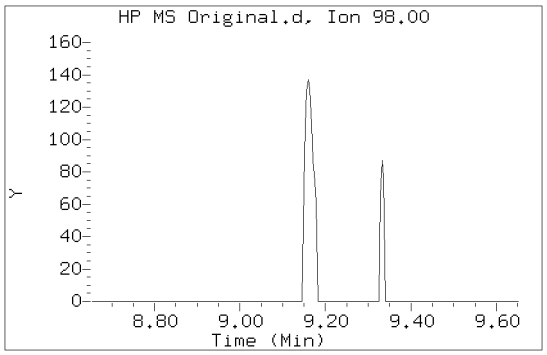
AFTER

MASS
42
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



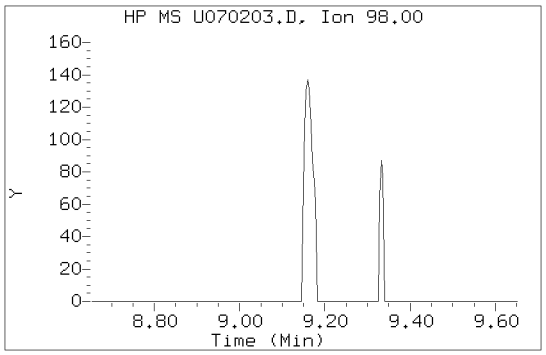
BEFORE

MASS
98
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
98
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



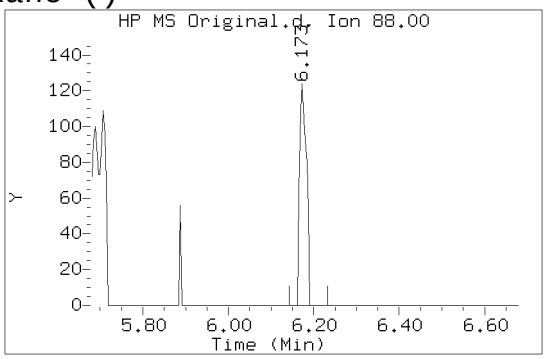
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

1,4-Dioxane ()

Reason Code:

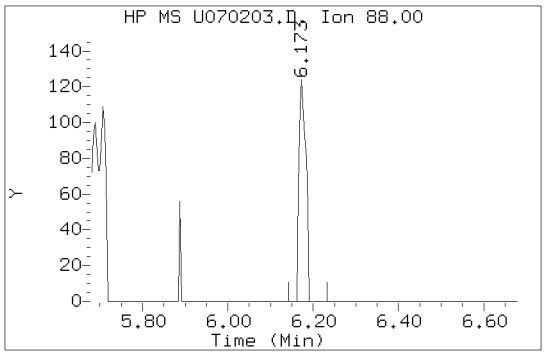
BEFORE

MASS
88
AREA
140
HEIGHT
124
10-Jul-2024
08:51
RUCHA
PATEL



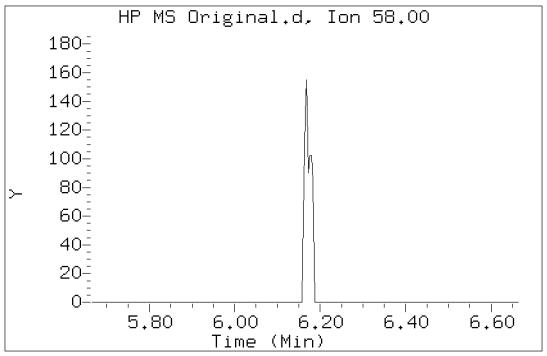
AFTER

MASS
88
AREA
140
HEIGHT
124
10-Jul-2024
09:57
RUCHA
PATEL



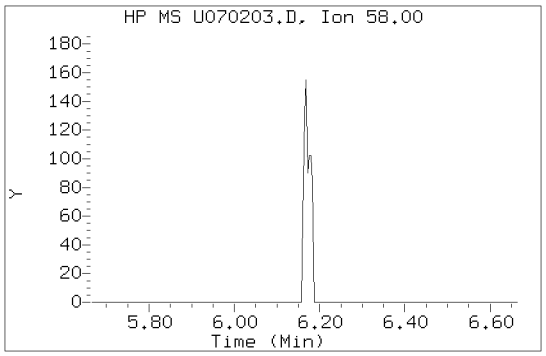
BEFORE

MASS
58
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

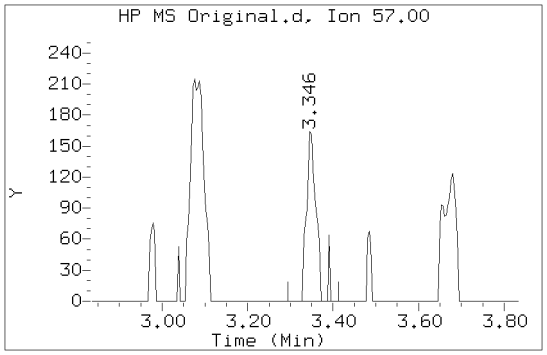


n-Hexane (110-54-3)

Reason Code:

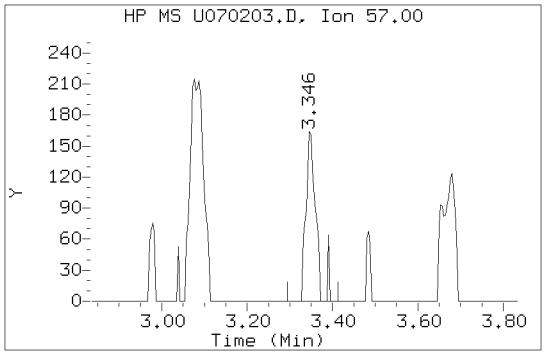
BEFORE

MASS
57
AREA
267
HEIGHT
164
10-Jul-2024
08:51
RUCHA
PATEL



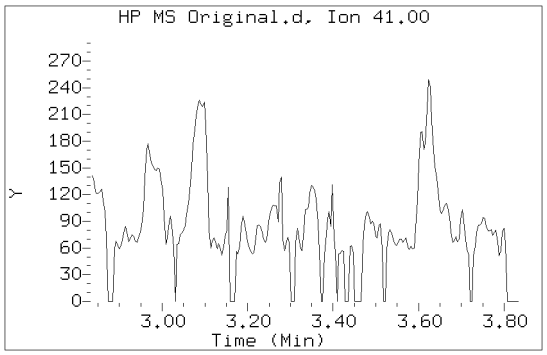
AFTER

MASS
57
AREA
267
HEIGHT
164
10-Jul-2024
09:57
RUCHA
PATEL



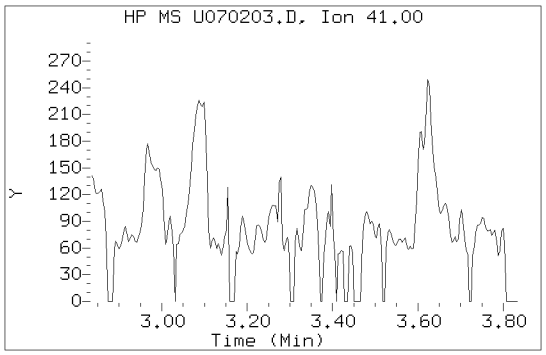
BEFORE

MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

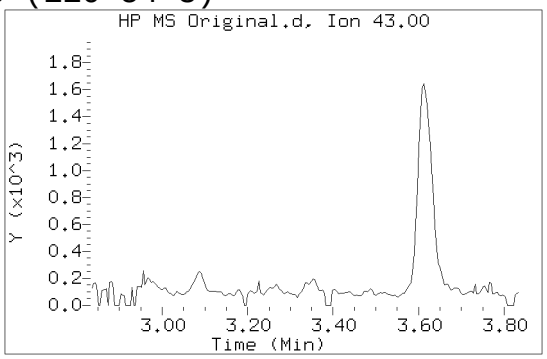


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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

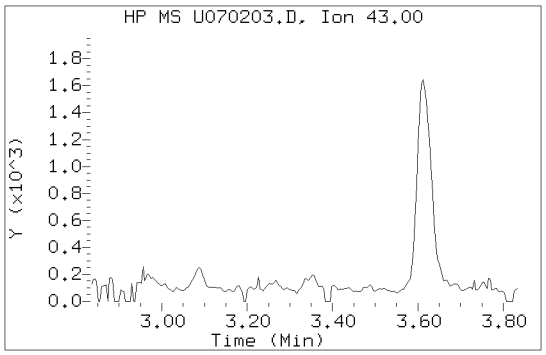
n-Hexane (110-54-3)

Reason Code:

BEFORE
MASS
43
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



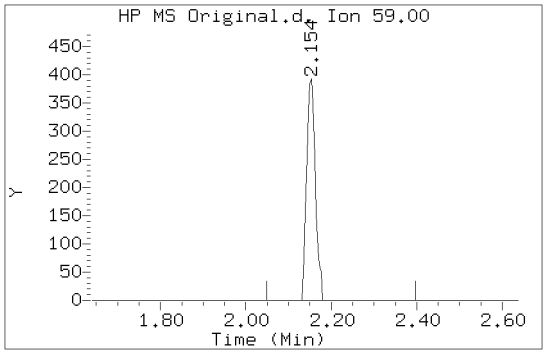
AFTER
MASS
43
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



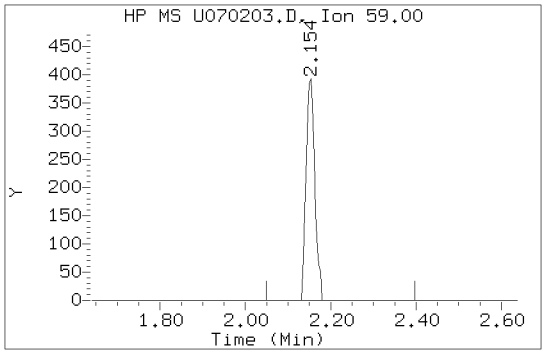
Diethyl ether (60-29-7)

Reason Code:

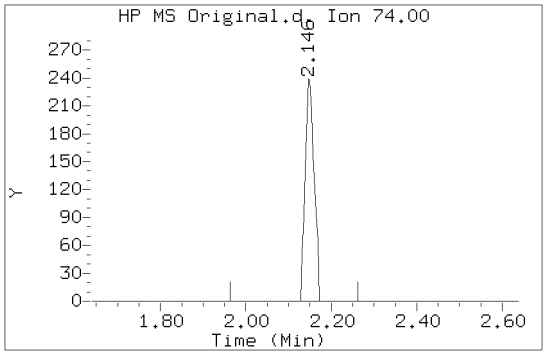
BEFORE
MASS
59
AREA
576
HEIGHT
393
10-Jul-2024
08:51
RUCHA
PATEL



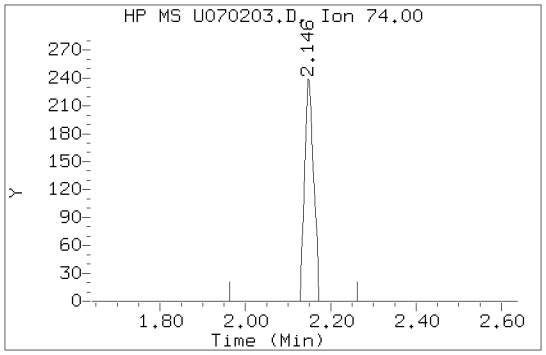
AFTER
MASS
59
AREA
576
HEIGHT
393
10-Jul-2024
09:57
RUCHA
PATEL



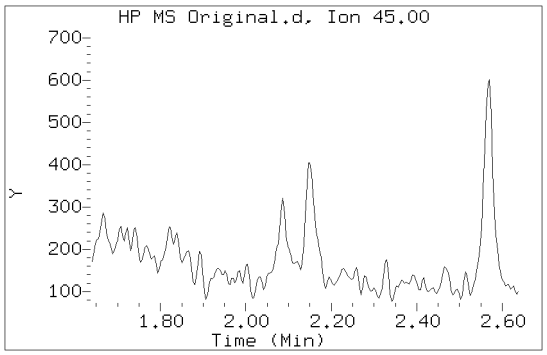
BEFORE
MASS
74
AREA
360
HEIGHT
239
10-Jul-2024
08:51
RUCHA
PATEL



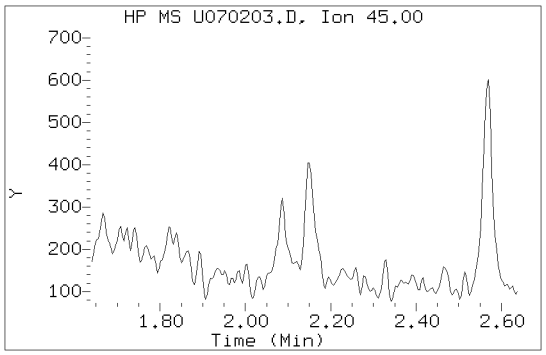
AFTER
MASS
74
AREA
360
HEIGHT
239
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
45
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
45
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



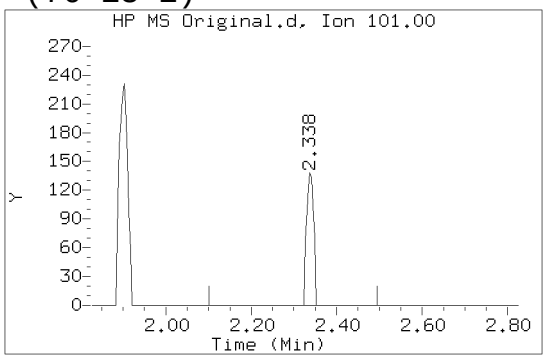
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

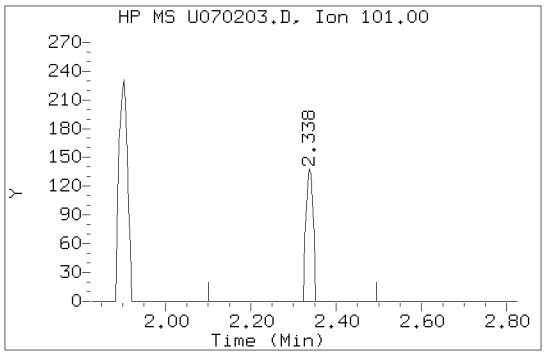
BEFORE

MASS
101
AREA
165
HEIGHT
138
10-Jul-2024
08:51
RUCHA
PATEL



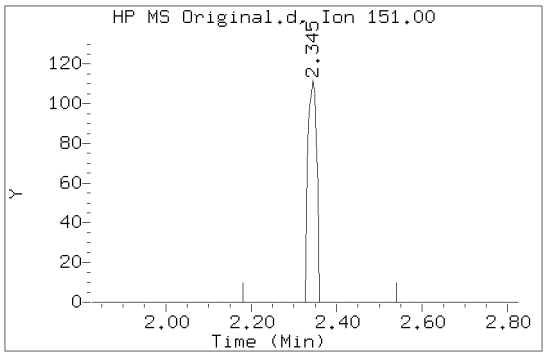
AFTER

MASS
101
AREA
165
HEIGHT
138
10-Jul-2024
09:57
RUCHA
PATEL



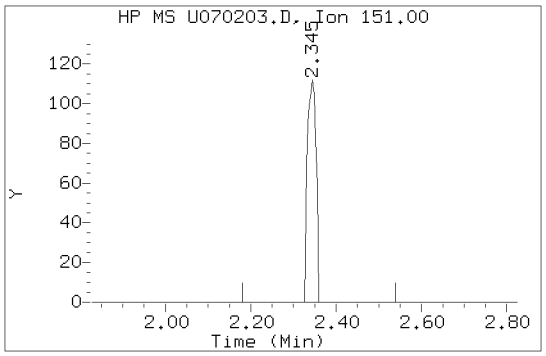
BEFORE

MASS
151
AREA
162
HEIGHT
112
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
151
AREA
162
HEIGHT
112
10-Jul-2024
09:57
RUCHA
PATEL

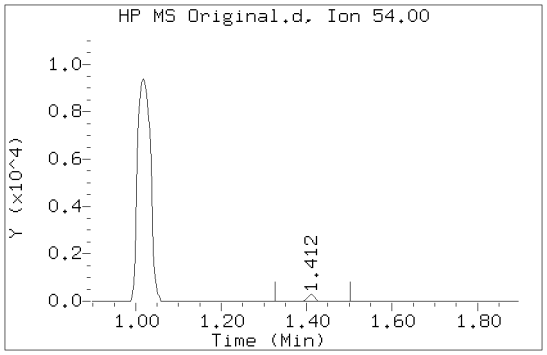


1,3-Butadiene (106-99-0)

Reason Code:

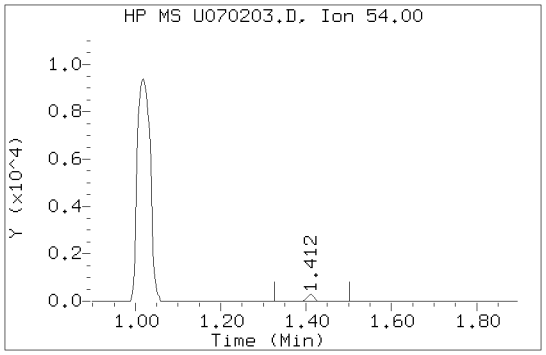
BEFORE

MASS
54
AREA
312
HEIGHT
294
10-Jul-2024
08:51
RUCHA
PATEL



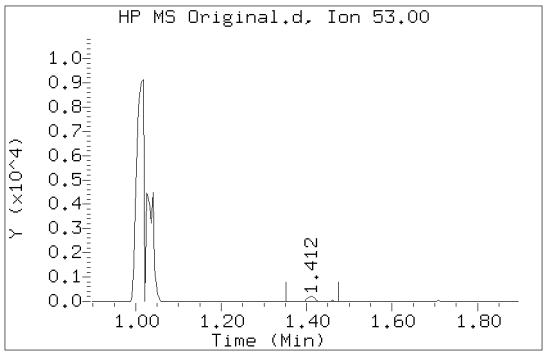
AFTER

MASS
54
AREA
312
HEIGHT
294
10-Jul-2024
09:57
RUCHA
PATEL



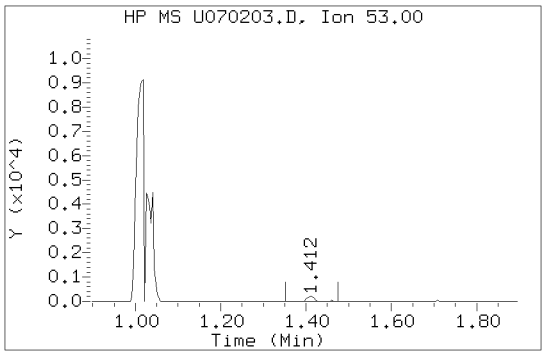
BEFORE

MASS
53
AREA
241
HEIGHT
208
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
53
AREA
241
HEIGHT
208
10-Jul-2024
09:57
RUCHA
PATEL

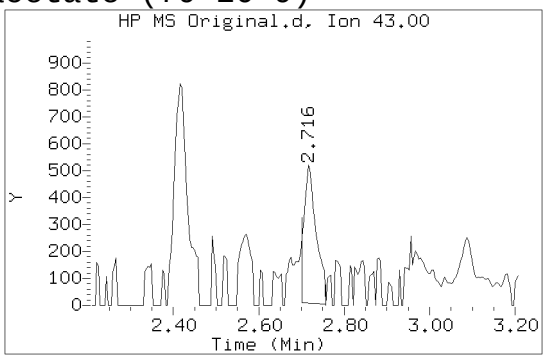


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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

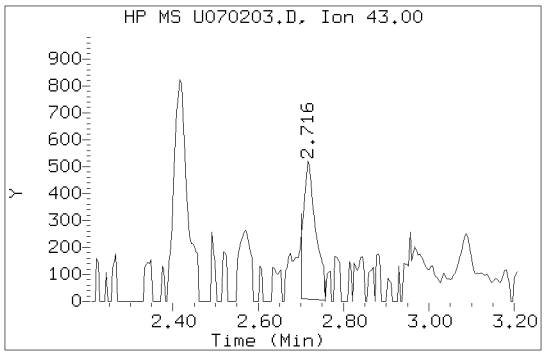
Methyl acetate (79-20-9)

Reason Code:

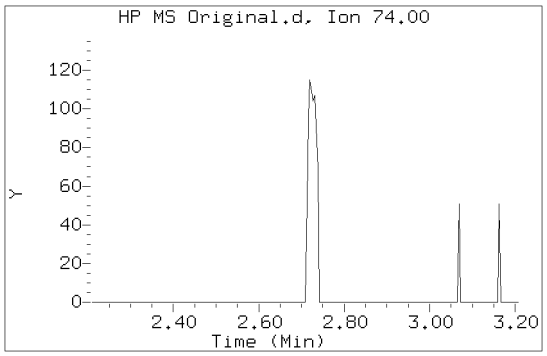
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MASS
43
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1030
HEIGHT
513
10-Jul-2024
08:51
RUCHA
PATEL



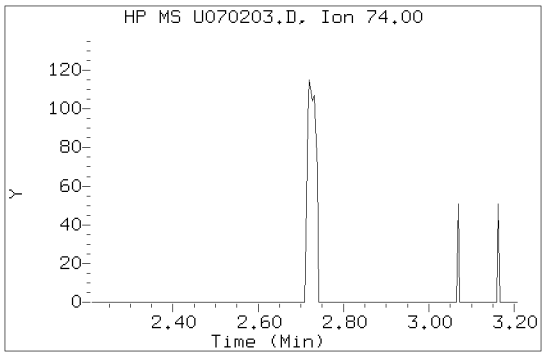
AFTER
MASS
43
AREA
1030
HEIGHT
513
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
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74
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0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



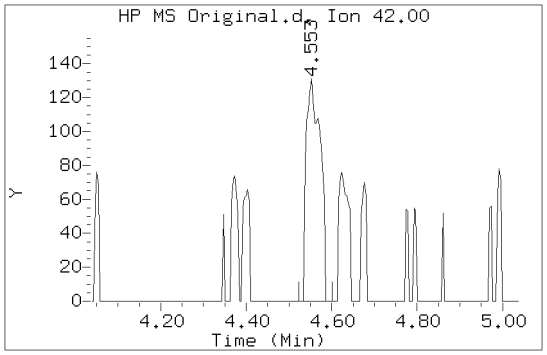
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10-Jul-2024
09:57
RUCHA
PATEL



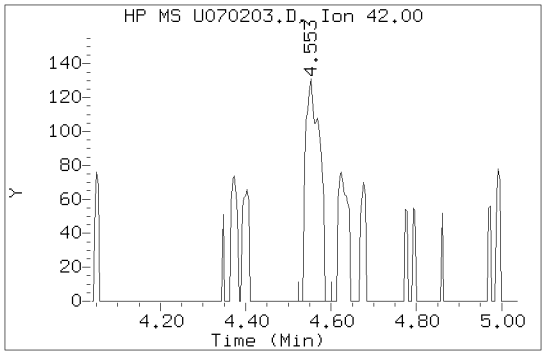
Tetrahydrofuran (109-99-9)

Reason Code:

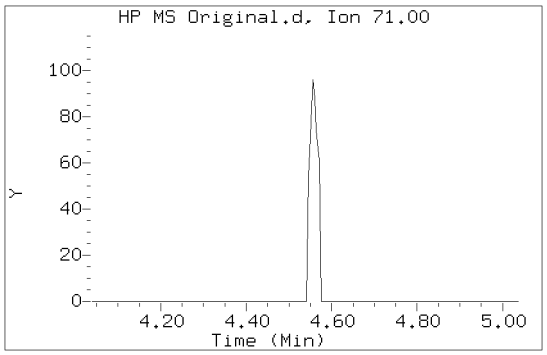
BEFORE
MASS
42
AREA
297
HEIGHT
131
10-Jul-2024
08:51
RUCHA
PATEL



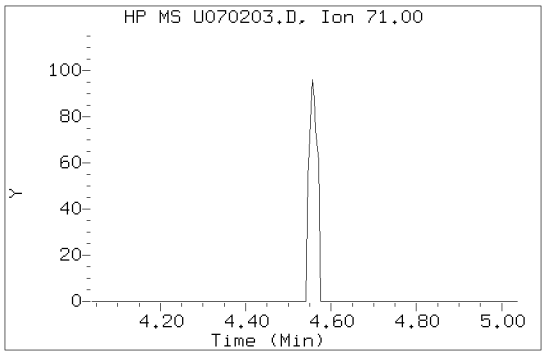
AFTER
MASS
42
AREA
297
HEIGHT
131
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
71
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
71
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



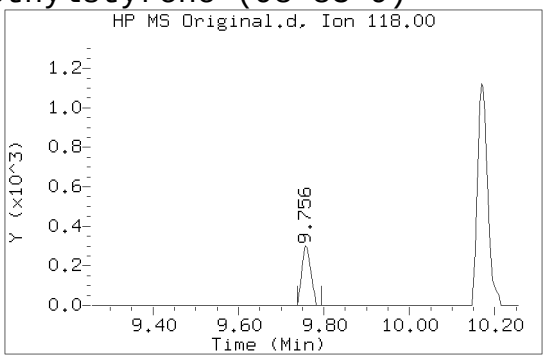
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

alpha-Methylstyrene (98-83-9)

Reason Code:

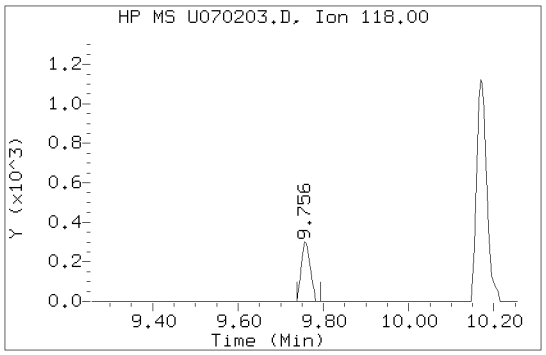
BEFORE

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118
AREA
446
HEIGHT
302
10-Jul-2024
08:51
RUCHA
PATEL



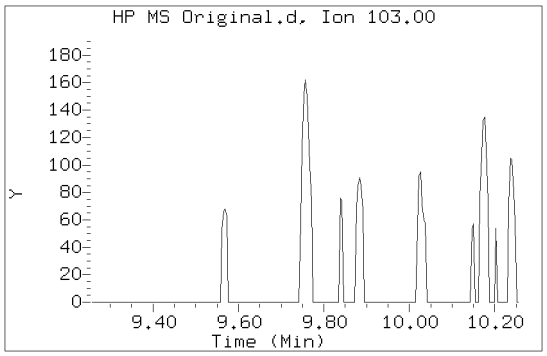
AFTER

MASS
118
AREA
446
HEIGHT
302
10-Jul-2024
09:57
RUCHA
PATEL



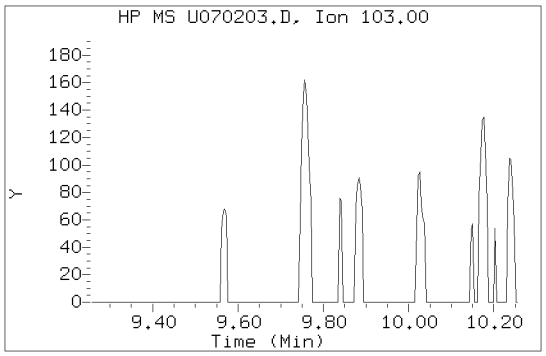
BEFORE

MASS
103
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
103
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

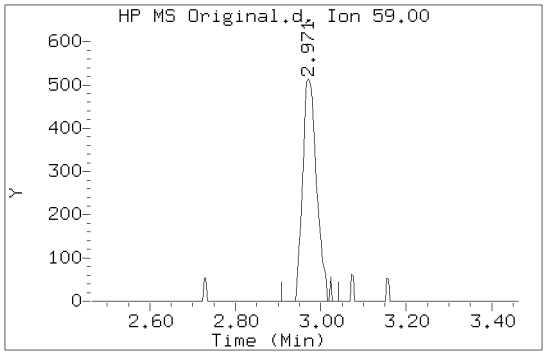


Tert-butyl alcohol (75-65-0)

Reason Code:

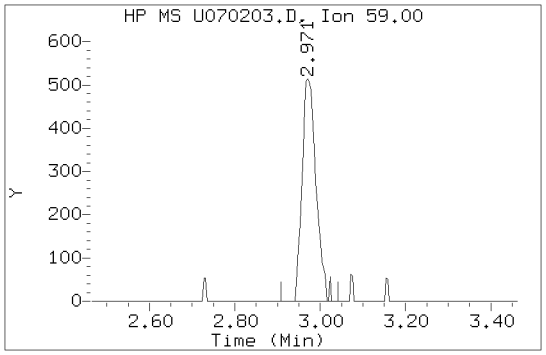
BEFORE

MASS
59
AREA
1195
HEIGHT
514
10-Jul-2024
08:51
RUCHA
PATEL



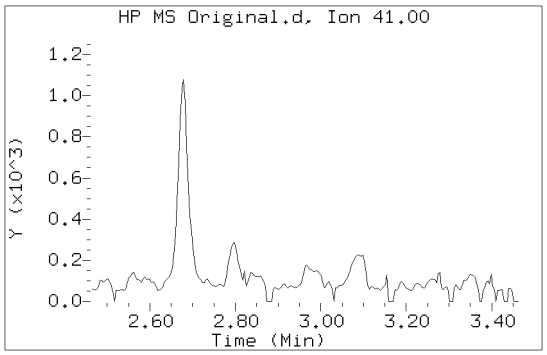
AFTER

MASS
59
AREA
1195
HEIGHT
514
10-Jul-2024
09:57
RUCHA
PATEL



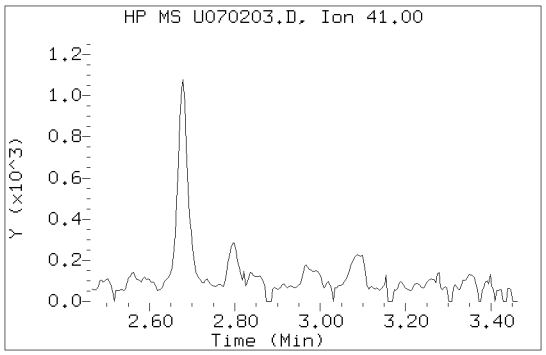
BEFORE

MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



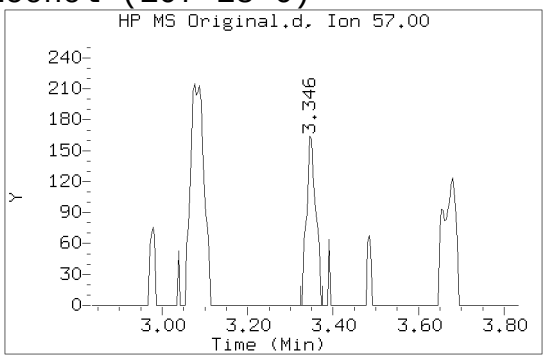
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Allyl alcohol (107-18-6)

Reason Code:

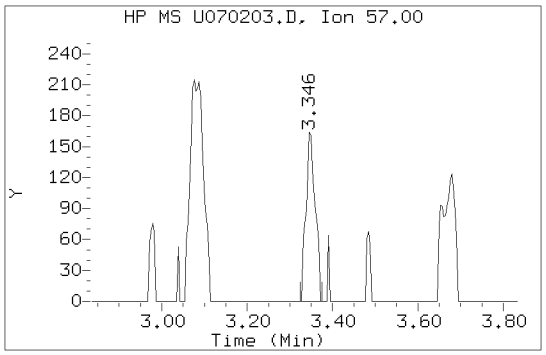
BEFORE

MASS
57
AREA
253
HEIGHT
164
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
57
AREA
253
HEIGHT
164
10-Jul-2024
09:57
RUCHA
PATEL

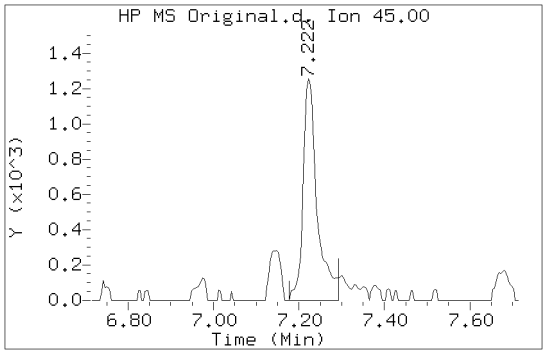


4-Methyl-2-pentanol (108-11-2)

Reason Code:

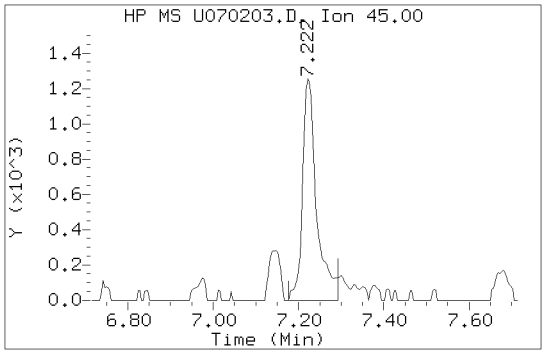
BEFORE

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AREA
2916
HEIGHT
1256
10-Jul-2024
08:51
RUCHA
PATEL



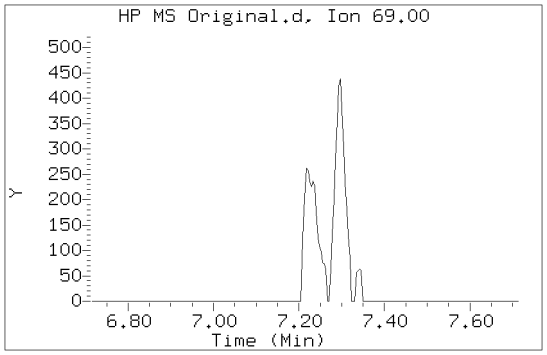
AFTER

MASS
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AREA
2916
HEIGHT
1256
10-Jul-2024
09:57
RUCHA
PATEL



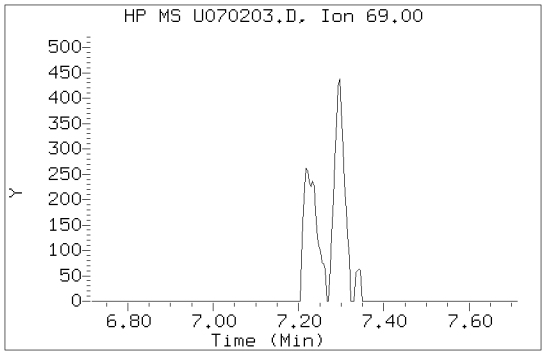
BEFORE

MASS
69
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
69
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

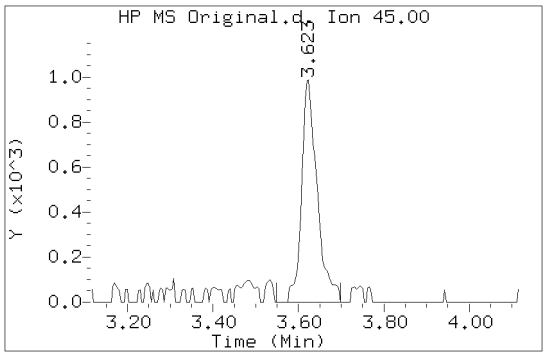


Diisopropyl ether (108-20-3)

Reason Code:

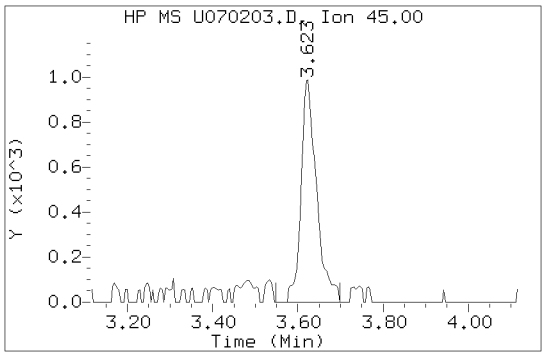
BEFORE

MASS
45
AREA
2543
HEIGHT
987
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
45
AREA
2543
HEIGHT
987
10-Jul-2024
09:57
RUCHA
PATEL



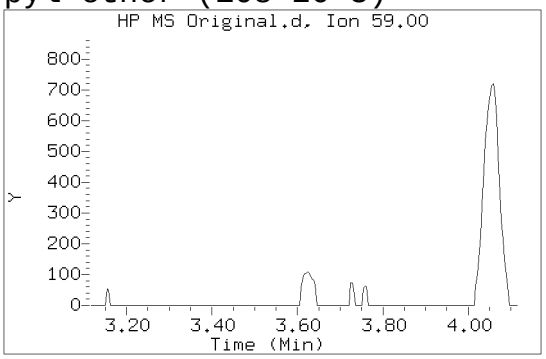
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

Diisopropyl ether (108-20-3)

Reason Code:

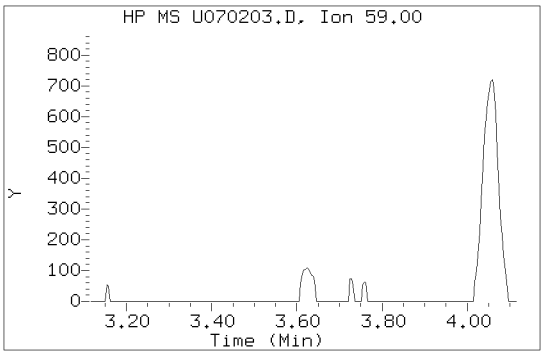
BEFORE

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HEIGHT
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10-Jul-2024
08:51
RUCHA
PATEL



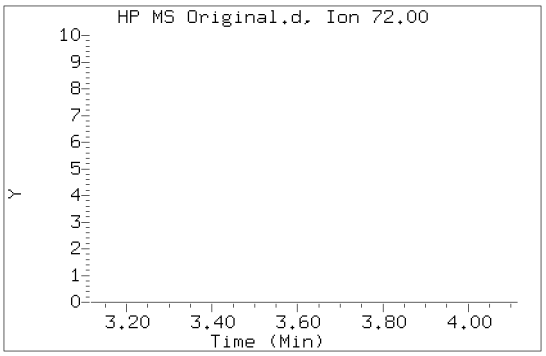
AFTER

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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



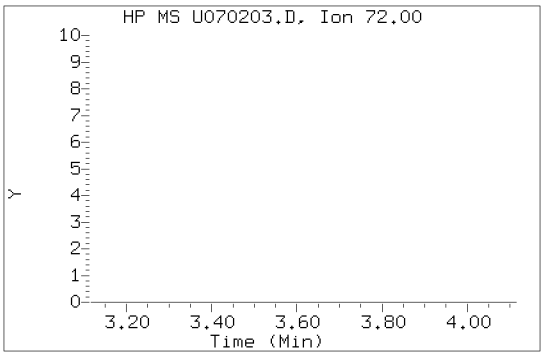
BEFORE

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72
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0
10-Jul-2024
08:51
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PATEL



AFTER

MASS
72
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0
10-Jul-2024
09:57
RUCHA
PATEL

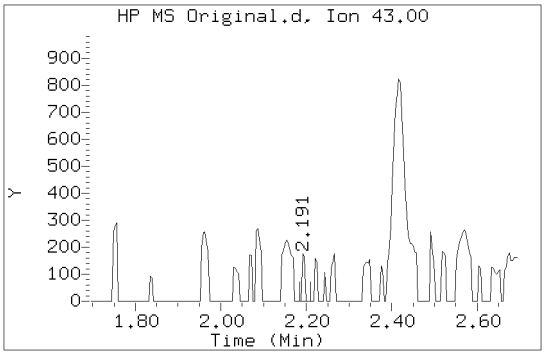


Propylene oxide ()

Reason Code:

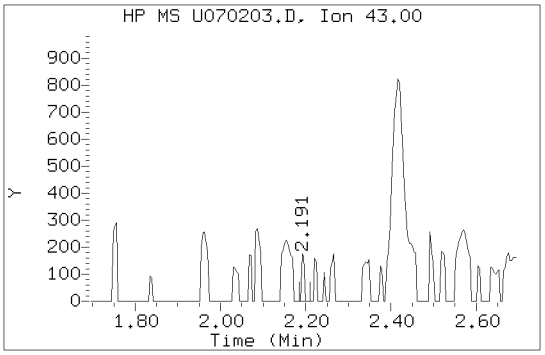
BEFORE

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HEIGHT
177
10-Jul-2024
08:51
RUCHA
PATEL



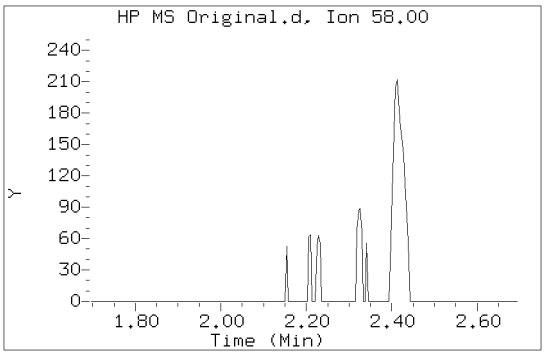
AFTER

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AREA
77
HEIGHT
177
10-Jul-2024
09:57
RUCHA
PATEL



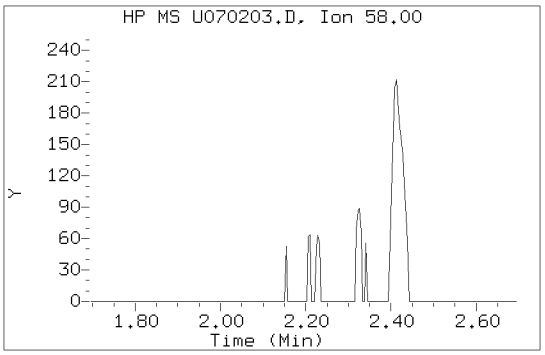
BEFORE

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HEIGHT
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10-Jul-2024
08:51
RUCHA
PATEL



AFTER

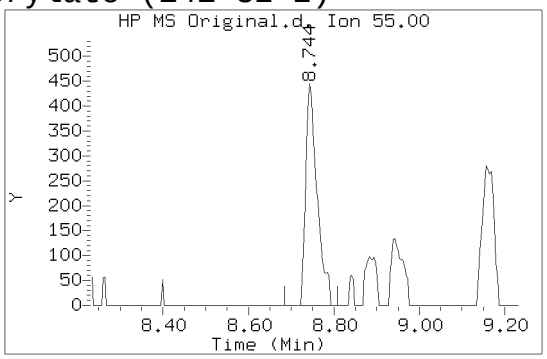
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070203.D
Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

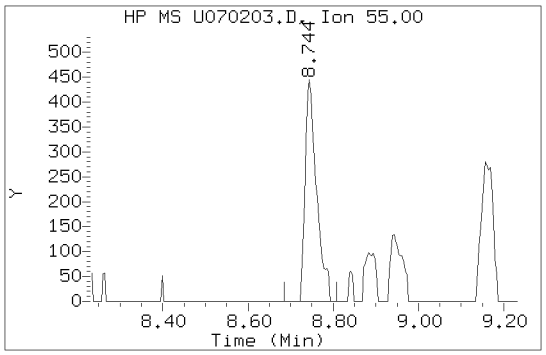
Butyl acrylate (141-32-2)

BEFORE
MASS
55
AREA
826
HEIGHT
445
10-Jul-2024
08:51
RUCHA
PATEL

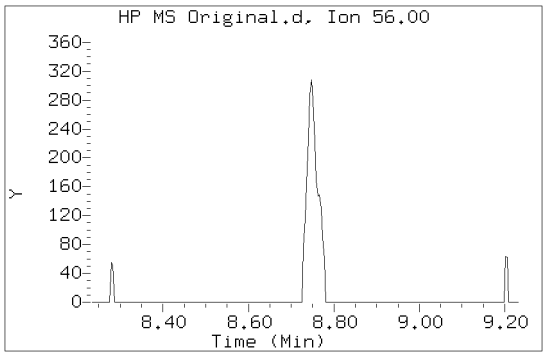


Reason Code:

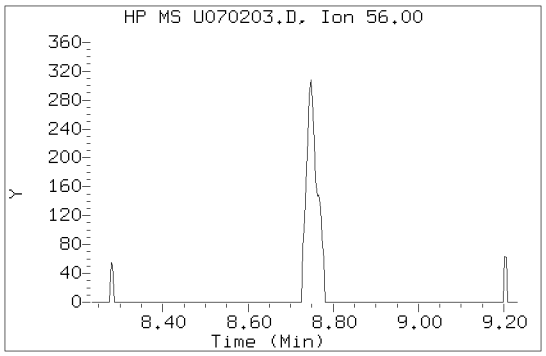
AFTER
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AREA
826
HEIGHT
445
10-Jul-2024
09:57
RUCHA
PATEL



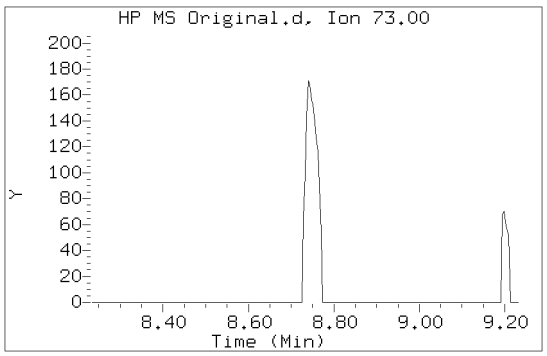
BEFORE
MASS
56
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0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



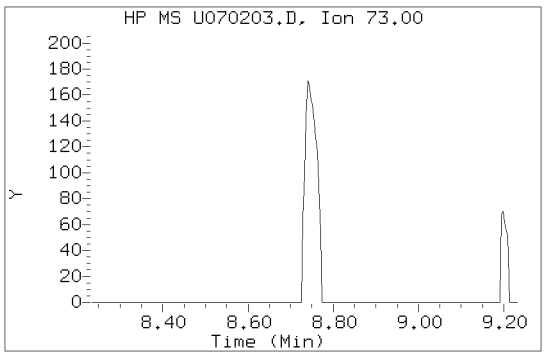
AFTER
MASS
56
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
73
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL

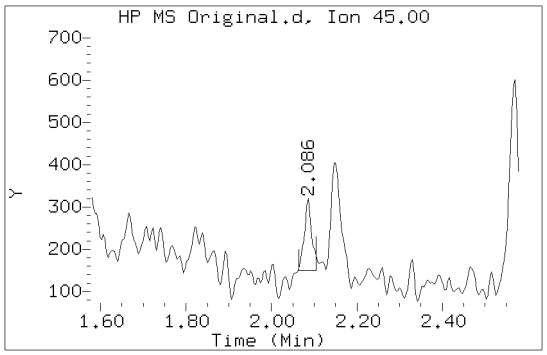


AFTER
MASS
73
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



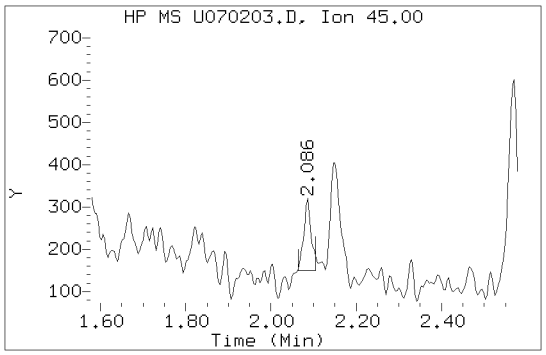
Ethanol (64-17-5)

BEFORE
MASS
45
AREA
210
HEIGHT
172
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

AFTER
MASS
45
AREA
210
HEIGHT
172
10-Jul-2024
09:57
RUCHA
PATEL



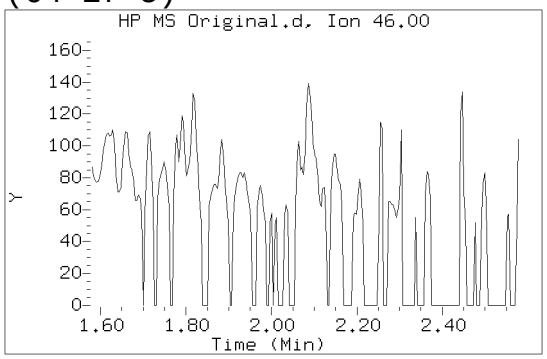
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InstruID : VOA9.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

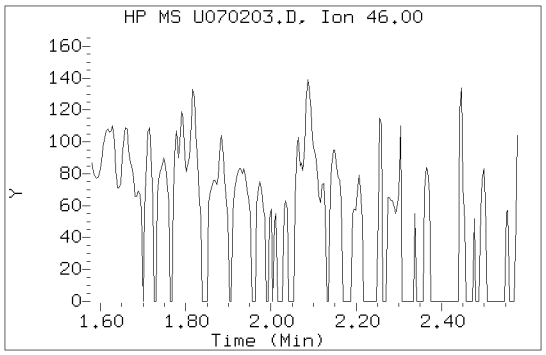
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10-Jul-2024
08:51
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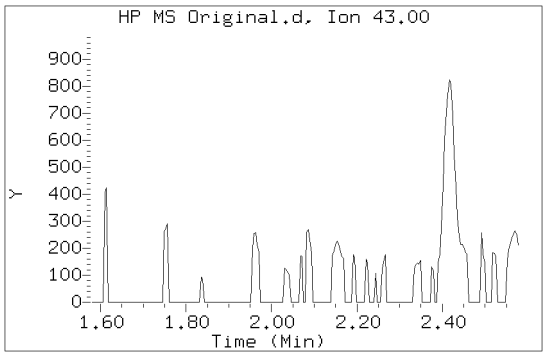
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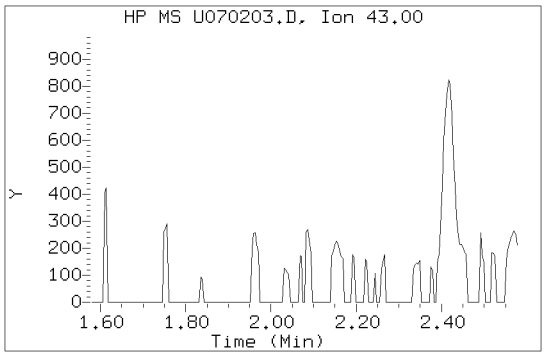
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AFTER

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10-Jul-2024
09:57
RUCHA
PATEL

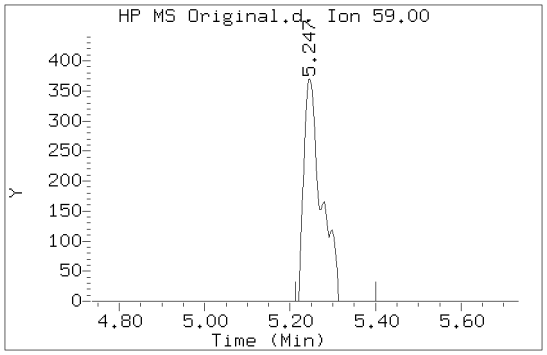


tert-Butyl formate (762-75-4)

Reason Code:

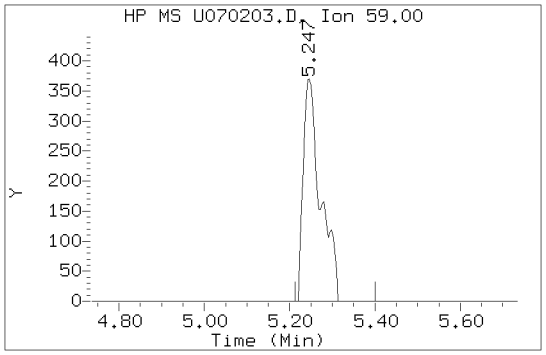
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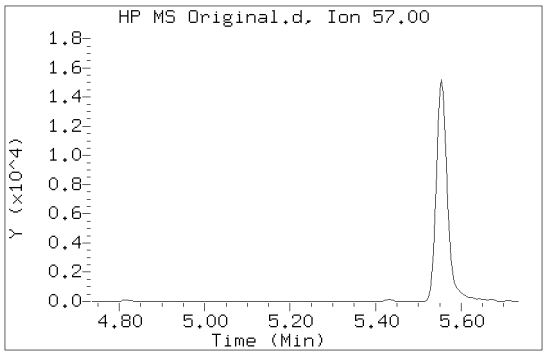
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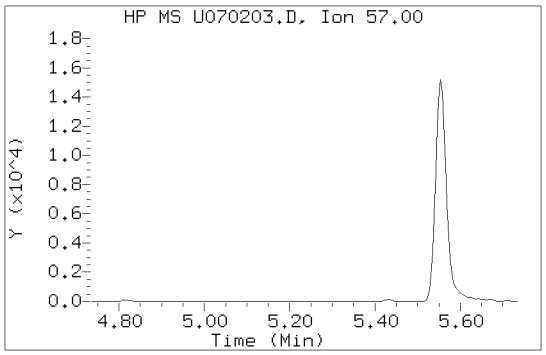
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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AREA
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



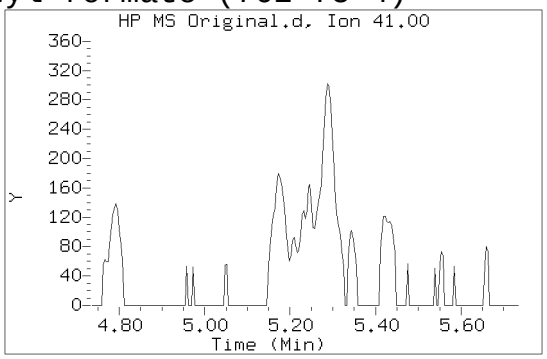
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

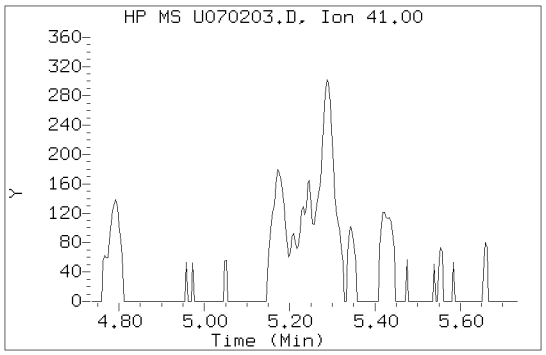
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PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

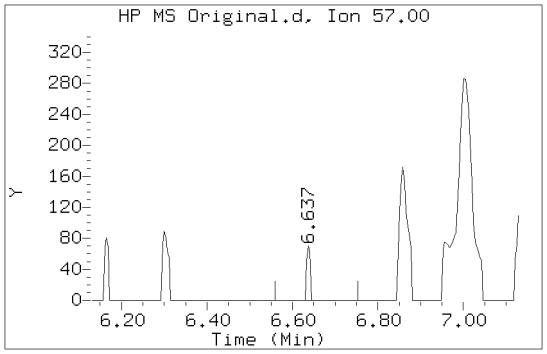


Epichlorohydrin (106-89-8)

Reason Code:

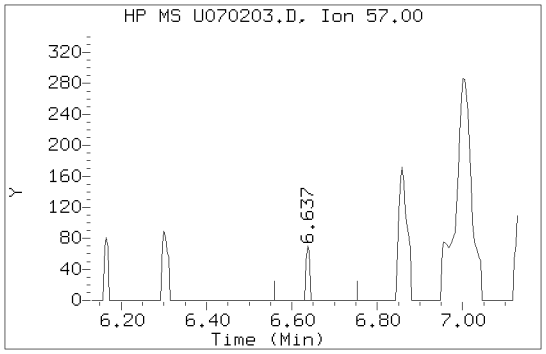
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10-Jul-2024
08:51
RUCHA
PATEL



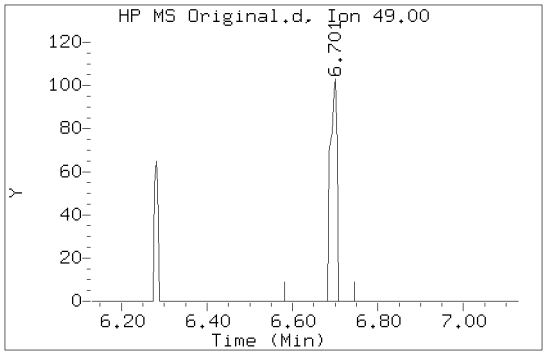
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70
10-Jul-2024
09:57
RUCHA
PATEL



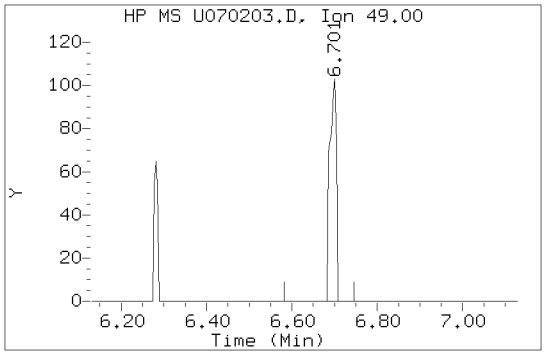
BEFORE

MASS
49
AREA
111
HEIGHT
103
10-Jul-2024
08:51
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PATEL



AFTER

MASS
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AREA
111
HEIGHT
103
10-Jul-2024
09:57
RUCHA
PATEL

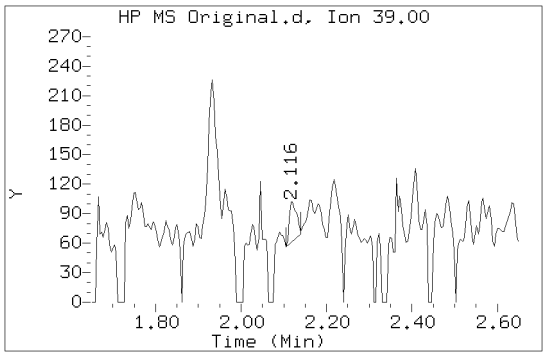


Isoprene (78-79-5)

Reason Code:

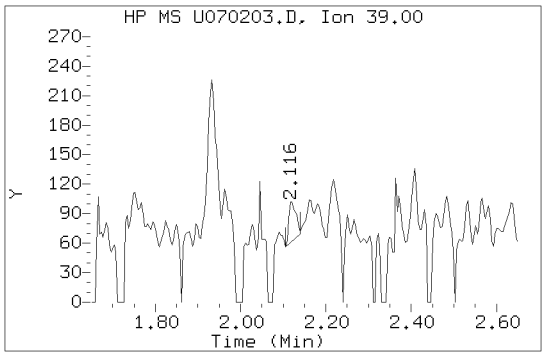
BEFORE

MASS
39
AREA
47
HEIGHT
41
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
39
AREA
47
HEIGHT
41
10-Jul-2024
09:57
RUCHA
PATEL

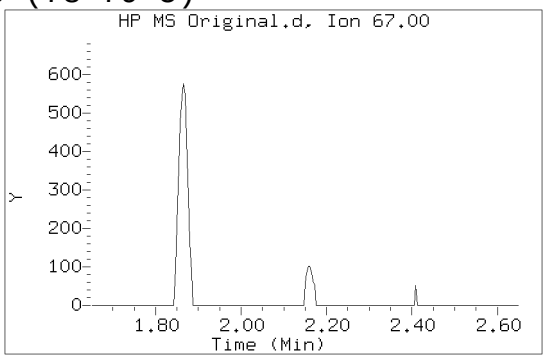


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LabSampID : VSTD00.5

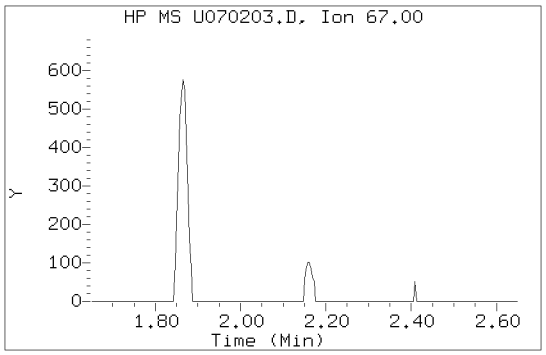
Isoprene (78-79-5)

Reason Code:

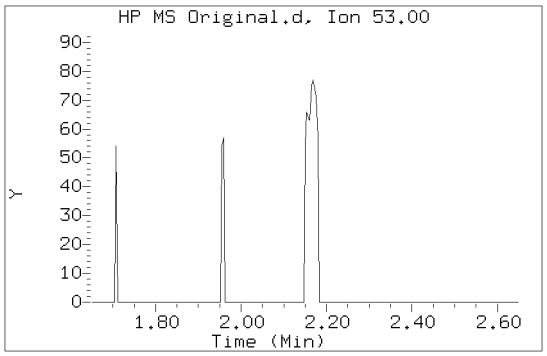
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10-Jul-2024
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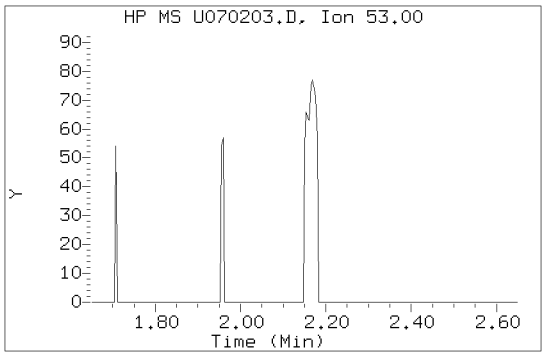
AFTER
MASS
67
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
53
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



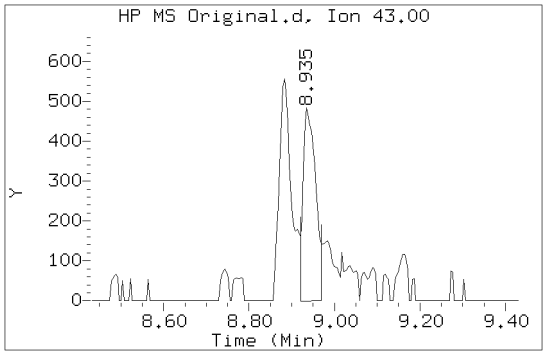
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RUCHA
PATEL



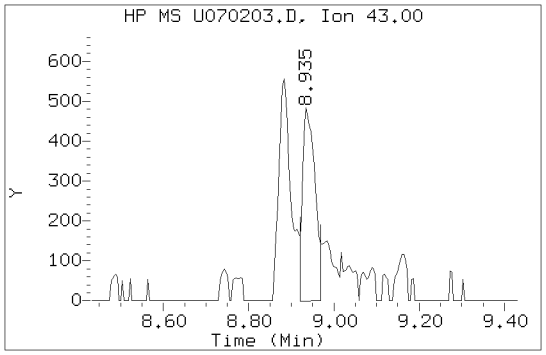
n-Amyl acetate (628-63-7)

Reason Code:

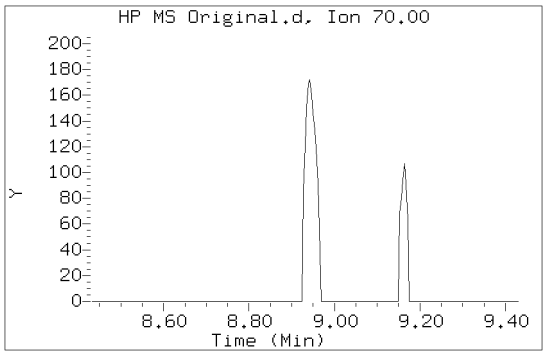
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1010
HEIGHT
483
10-Jul-2024
08:51
RUCHA
PATEL



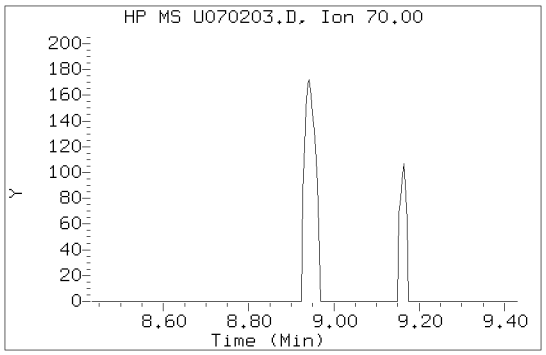
AFTER
MASS
43
AREA
1010
HEIGHT
483
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
70
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



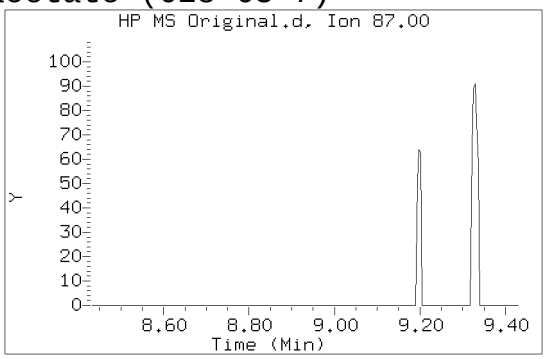
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

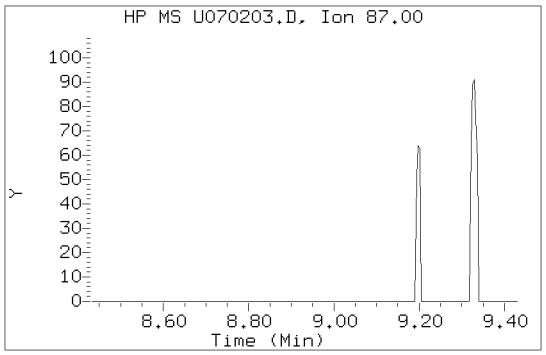
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
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10-Jul-2024
09:57
RUCHA
PATEL

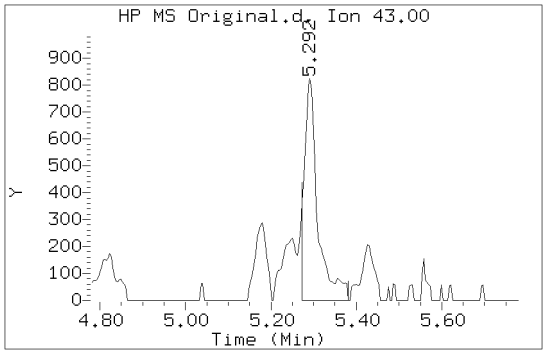


Isopropyl acetate (108-21-4)

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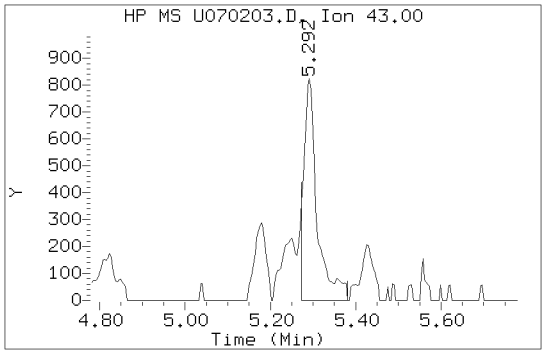
BEFORE

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1810
HEIGHT
824
10-Jul-2024
08:51
RUCHA
PATEL



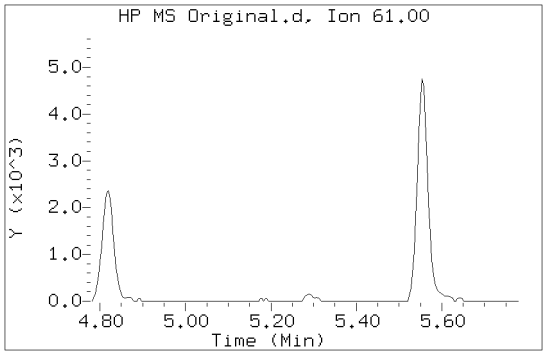
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09:57
RUCHA
PATEL



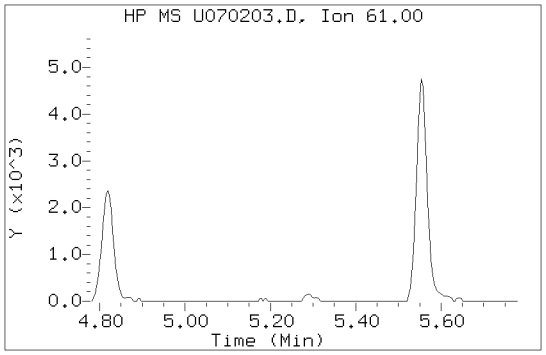
BEFORE

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10-Jul-2024
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PATEL



AFTER

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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL

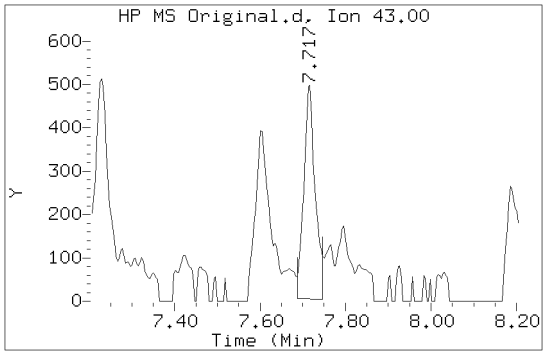


n-Butyl acetate (123-86-4)

Reason Code:

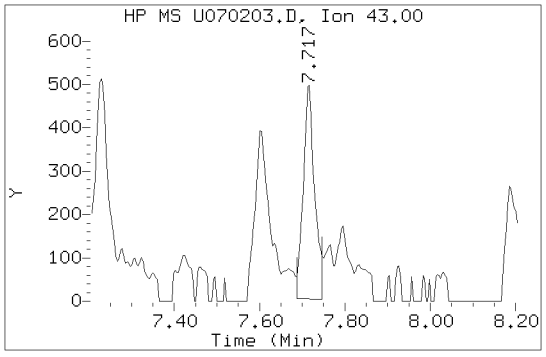
BEFORE

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942
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493
10-Jul-2024
08:51
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PATEL



AFTER

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942
HEIGHT
493
10-Jul-2024
09:57
RUCHA
PATEL



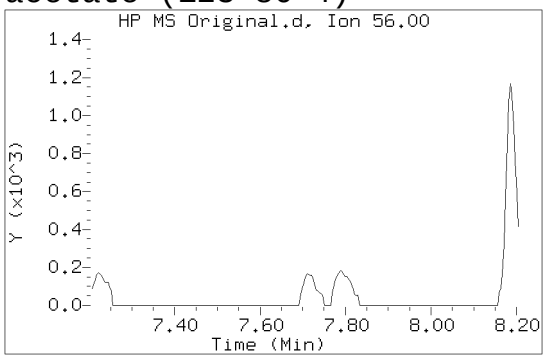
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Butyl acetate (123-86-4)

Reason Code:

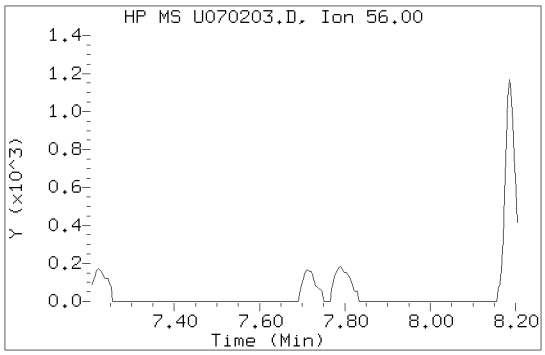
BEFORE

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0
10-Jul-2024
08:51
RUCHA
PATEL



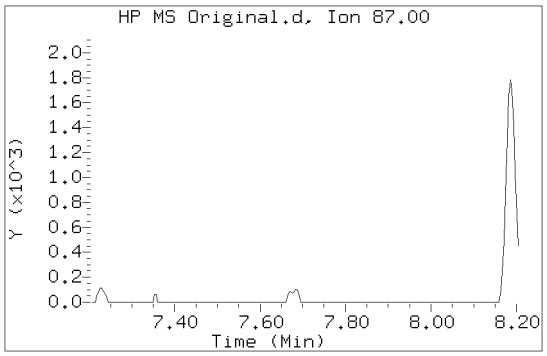
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AREA
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



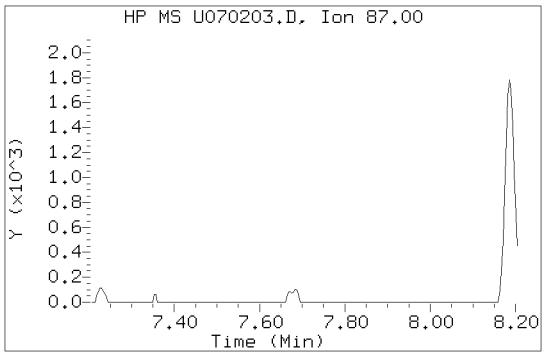
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

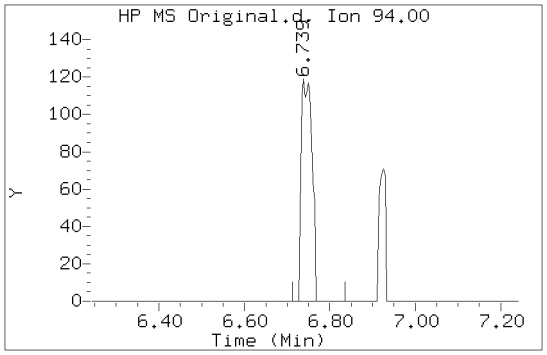


Dimethyl Disulfide (624-92-0)

Reason Code:

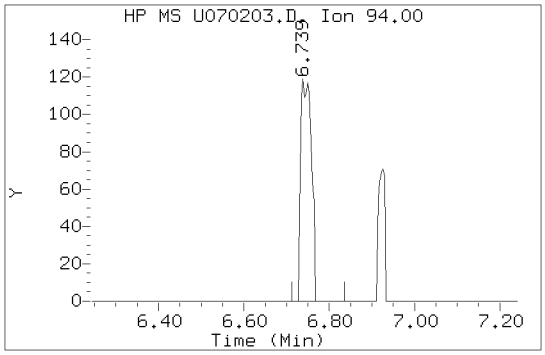
BEFORE

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212
HEIGHT
119
10-Jul-2024
08:51
RUCHA
PATEL



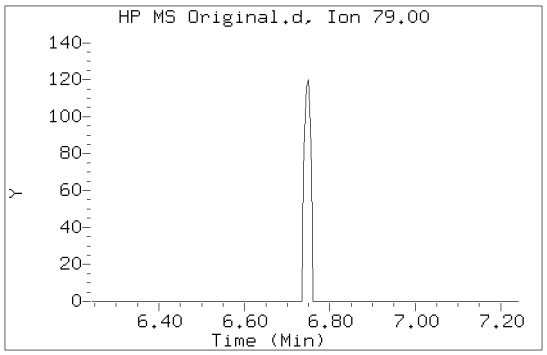
AFTER

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AREA
212
HEIGHT
119
10-Jul-2024
09:57
RUCHA
PATEL



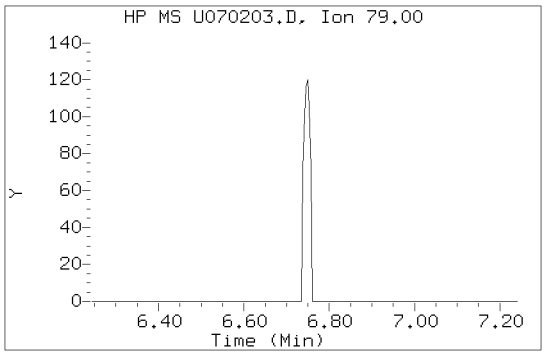
BEFORE

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10-Jul-2024
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PATEL



AFTER

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HEIGHT
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10-Jul-2024
09:57
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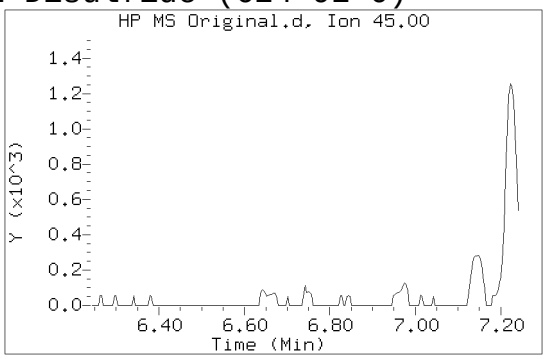


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LabSampID : VSTD00.5

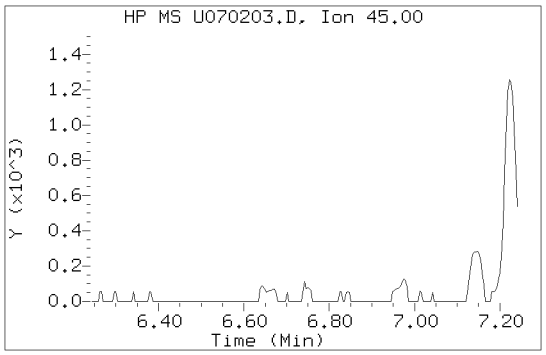
Dimethyl Disulfide (624-92-0)

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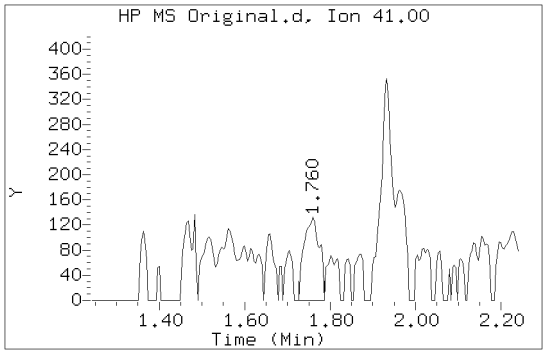
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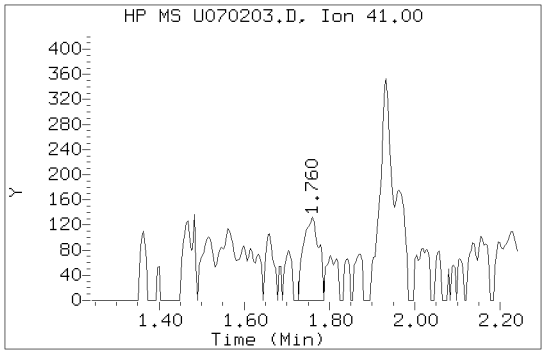
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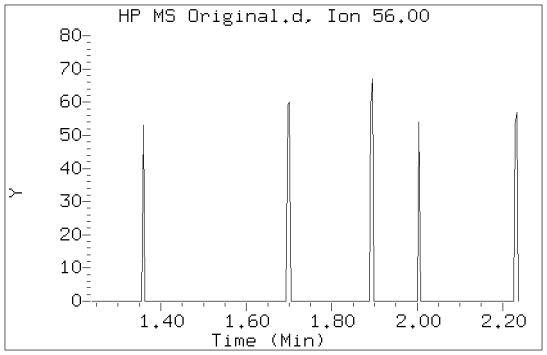
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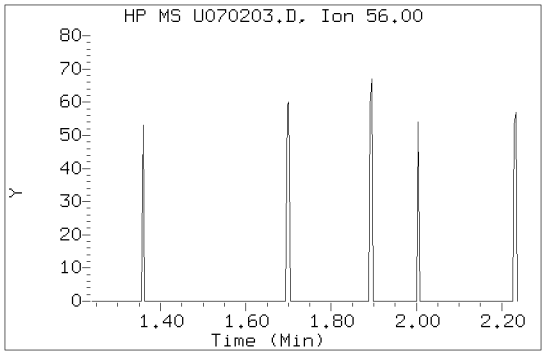
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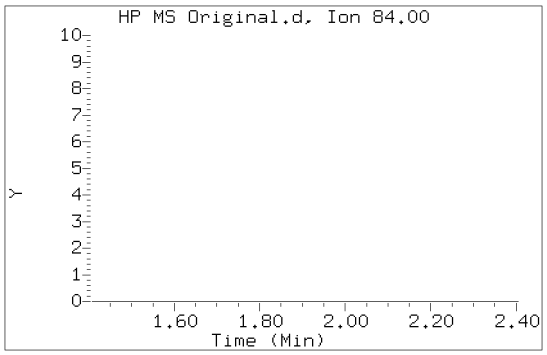
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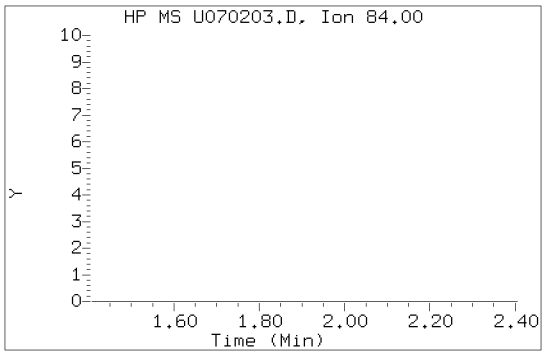
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BEFORE
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AFTER
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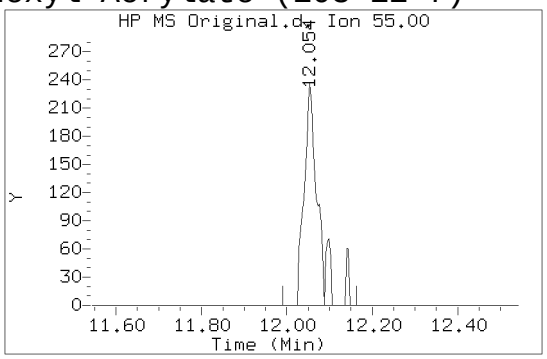
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Inj Date : 02-JUL-2024 10:30
InstruID : VOA9.i
LabSampID : VSTD00.5

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

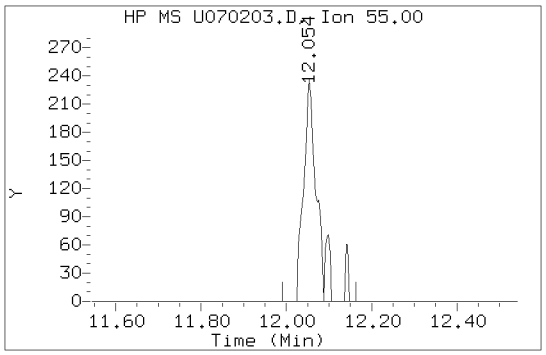
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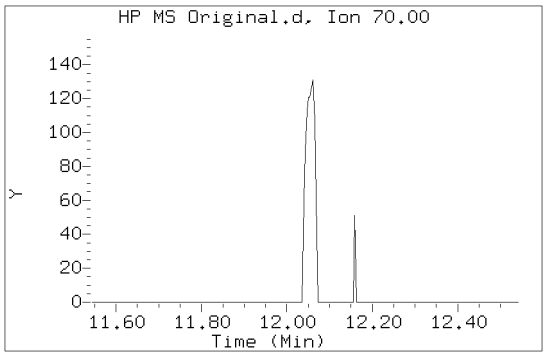
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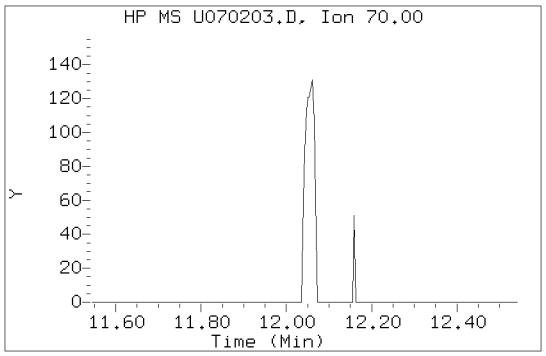
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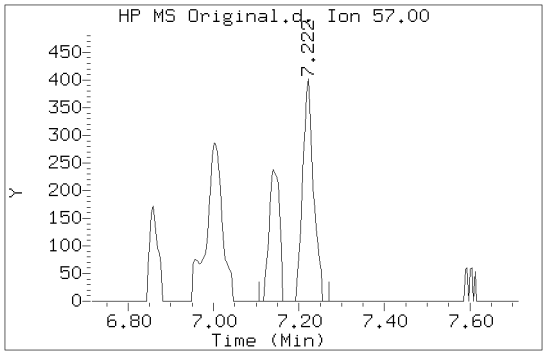


sec-Butyl Ether (6863-58-7)

Reason Code:

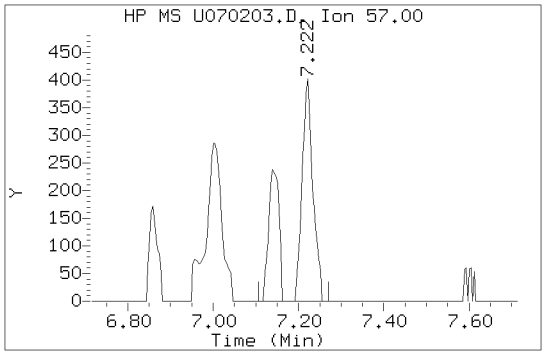
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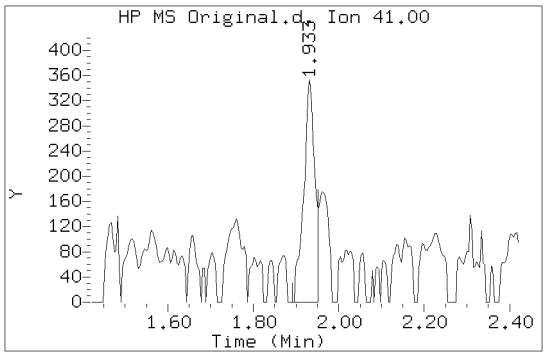


2-Chloropropene (557-98-2)

Reason Code:

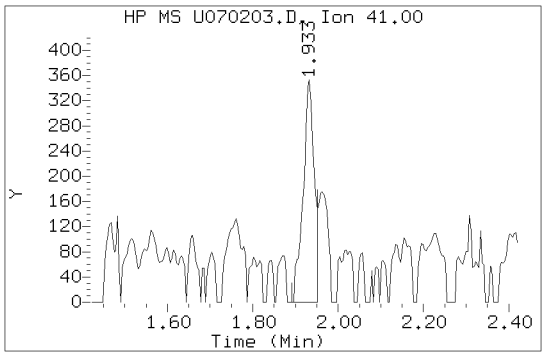
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AFTER

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10-Jul-2024
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Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D Page 1
Report Date: 10-Jul-2024 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
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Inj Date : 02-JUL-2024 10:51
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Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 10-Jul-2024 09:57 VOA9.i Quant Type: ISTD
Cal Date : 02-JUL-2024 10:30 Cal File: U070203.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	188518	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	686	1.00000	0.54(M)
3 Chloromethane	50	1.299	1.299	(0.270)	4126	1.00000	0.98(M)
4 Propionitrile	54	4.339	4.339	(0.901)	1499	10.0000	9.30(aM)
5 Vinyl Chloride	62	1.378	1.378	(0.286)	1156	1.00000	0.91(M)
6 Bromomethane	94	1.621	1.621	(0.337)	785	1.00000	0.71
7 Chloroethane	64	1.704	1.704	(0.354)	1047	1.00000	1.14(M)
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	1134	1.00000	0.80(M)
9 Acrolein	56	2.266	2.266	(0.471)	172	2.00000	5.29(aM)
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	688	1.00000	0.80(M)
12 Isobutyl Alcohol	43	5.288	5.288	(1.098)	3155	20.0000	20.09(Ta)
13 Acetonitrile	39	2.667	2.667	(0.554)	1345	10.0000	12.63(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	3149	1.00000	1.11(a)
15 Iodomethane	142	2.465	2.465	(0.512)	1238	2.00000	3.22(T)
16 Acrylonitrile	53	3.068	3.068	(0.637)	997	2.00000	1.43
17 Methylene Chloride	84	2.795	2.795	(0.580)	9115	1.00000	1.14
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	2908	1.00000	1.05
19 Carbon Disulfide	76	2.517	2.517	(0.523)	4539	2.00000	1.86(M)
20 trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	1041	1.00000	1.06(T)
21 Vinyl Acetate	43	4.347	4.347	(0.903)	1080	2.00000	1.75(M)

22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	2075	1.00000	1.08(T)
23 Chloroprene	53	3.608	3.608 (0.749)	1281	1.00000	0.88(a)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.275	4.275	(0.888)	1151	2.00000	1.99(M)
	25	Methacrylonitrile	41	4.504	4.504	(0.935)	1341	1.00000	1.43(aM)
	26	2,2-Dichloropropane	77	4.182	4.182	(0.868)	1019	1.00000	1.95(M)
	27	cis-1,2-Dichloroethene	96	4.200	4.200	(0.872)	1142	1.00000	0.93
	28	Chloroform	83	4.572	4.572	(0.949)	2053	1.00000	0.99
	29	Bromochloromethane	128	4.470	4.470	(0.928)	567	1.00000	0.93(M)
$	30	Dibromofluoromethane	113	4.748	4.748	(0.986)	1467	1.00000	1.05
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	1149	1.00000	1.46
	32	1,1-Dichloropropene	75	4.920	4.920	(0.886)	1251	1.00000	0.85
	33	1,2-Dichloroethane	62	5.179	5.179	(0.933)	1851	1.00000	1.09(M)
	34	Carbon Tetrachloride	117	4.916	4.916	(0.885)	1148	1.00000	2.10(M)
$	35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	1922	1.00000	1.05(T)
*	36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	284562	50.0000	
	37	Benzene	78	5.141	5.141	(0.926)	5121	1.00000	1.04
	38	Trichloroethene	130	5.790	5.790	(1.043)	1112	1.00000	0.94(a)
	39	Bromodichloromethane	83	6.281	6.281	(1.131)	1267	1.00000	0.86(aM)
	40	Methyl Methacrylate	41	5.850	5.850	(1.215)	449	1.00000	1.05(aM)
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	1417	1.00000	1.08(aM)
	43	2-Nitropropane	43	6.858	6.858	(1.424)	2434	1.00000	1.03(a)
	44	Dibromomethane	93	6.120	6.120	(1.102)	699	1.00000	0.92(a)
	45	4-Methyl-2-Pentanone	43	6.858	6.858	(0.838)	2422	2.00000	2.01(a)
	46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	1244	1.00000	2.57(aM)
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	256575	50.0000	
$	48	Toluene-d8	98	6.926	6.926	(0.846)	4823	1.00000	1.09(a)
	49	Ethyl Methacrylate	69	7.293	7.293	(1.313)	1424	1.00000	0.92(a)
	50	Toluene	91	6.982	6.982	(0.853)	4153	1.00000	0.87(a)
	51	trans-1,3-Dichloropropene	75	7.203	7.203	(1.297)	931	1.00000	2.82(aM)
	53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	1008	1.00000	1.07(a)
	54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	1784	1.00000	0.91(aM)
	55	Dibromochloromethane	129	7.694	7.694	(0.940)	915	1.00000	0.83(a)
	56	Tetrachloroethene	164	7.458	7.458	(0.911)	708	1.00000	0.60(a)
	57	1,2-Dibromoethane	107	7.788	7.788	(0.951)	928	1.00000	0.90(a)
	58	1-Chlorohexane	55	8.185	8.185	(1.474)	2986	1.00000	0.51(a)
	59	Chlorobenzene	112	8.208	8.208	(1.003)	3260	1.00000	0.99(a)
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	989	1.00000	0.92(a)
	61	Ethylbenzene	106	8.305	8.305	(1.015)	1248	1.00000	0.84(aM)
	62	m,p-Xylenes	106	8.410	8.410	(1.027)	2709	2.00000	2.83(a)
	63	o-Xylene	106	8.748	8.748	(1.069)	1360	1.00000	1.36(a)
	64	Styrene	104	8.766	8.766	(1.071)	2057	1.00000	1.92(a)
	66	Bromoform	173	8.920	8.920	(1.090)	515	1.00000	3.68(aM)
	67	Isopropylbenzene	105	9.063	9.063	(1.107)	3305	1.00000	1.41(a)
	68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	1536	1.00000	1.03(aM)
$	69	4-Bromofluorobenzene	95	9.197	9.197	(1.124)	2302	1.00000	1.34(a)
*	70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	130264	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1455	1.00000	1.00(a)
	72	trans-1,4-Dichloro-2-butene	53	9.392	9.392	(1.147)	228	1.00000	1.79(aM)
	73	n-Propylbenzene	91	9.415	9.415	(0.926)	3693	1.00000	2.36(a)
	74	Bromobenzene	156	9.321	9.321	(0.916)	1184	1.00000	0.93(a)
	75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	2335	1.00000	1.65(a)
	76	2-Chlorotoluene	91	9.486	9.486	(0.933)	2728	1.00000	0.85(a)
	77	4-Chlorotoluene	91	9.580	9.580	(0.942)	3082	1.00000	0.85(a)
	78	tert-Butylbenzene	119	9.839	9.839	(0.967)	2228	1.00000	1.42(Ta)

79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.971)	2566	1.00000	3.14(a)
81 sec-Butylbenzene	105	10.022	10.022 (0.985)	2721	1.00000	1.87(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	2361	1.00000	3.08(aM)
83	1,3-Dichlorobenzene	146	10.510	10.510	(1.033)	2747	1.00000	1.10(a)
84	1,4-Dichlorobenzene	146	10.510	10.510	(1.033)	2747	1.00000	1.10(a)
86	Benzyl Chloride	91	10.315	10.315	(1.260)	2633	1.00000	1.62(aM)
87	n-Butylbenzene	91	10.498	10.498	(1.032)	2215	1.00000	2.55(aM)
88	1,2-Dichlorobenzene	146	10.510	10.510	(1.033)	2747	1.00000	1.10(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	116	1.00000	1.19(aM)
90	1,2,4-Trichlorobenzene	180	11.867	11.867	(1.167)	984	1.00000	1.07(aM)
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	448	1.00000	1.95(aM)
92	Naphthalene	128	12.080	12.080	(1.188)	2021	1.00000	3.29(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	1103	1.00000	0.85(aM)
146	Methyl acetate	43	2.716	2.716	(0.564)	1417	1.00000	1.50(aM)
138	Freon TF	101	2.337	2.337	(0.485)	522	1.00000	1.00(aM)
141	Cyclohexane	56	4.815	4.815	(1.000)	4185	1.00000	1.15(a)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	620	2.00000	3.32(aM)
147	Methylcyclohexane	55	5.951	5.951	(1.072)	2020	1.00000	0.76(a)
135	1,4-Dioxane	88	6.172	6.172	(1.282)	265	20.0000	26.04(M)
132	n-Butanol	56	5.846	5.846	(1.214)	550	20.0000	18.74(aM)
136	n-Hexane	57	3.346	3.346	(0.695)	714	1.00000	1.03(a)
139	Diethyl ether	59	2.150	2.150	(0.447)	978	1.00000	1.67(a)
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	2058	20.0000	31.74
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	1656	20.0000	18.41(T)
156	Diisopropyl ether	45	3.619	3.619	(0.752)	4135	1.00000	1.27(aM)
162	Butyl acrylate	55	8.744	8.744	(1.068)	1564	1.00000	0.78(Ta)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	3065	1.00000	0.94(a)
167	Ethanol	45	2.082	2.082	(0.433)	443	20.0000	29.58(M)
172	tert-Butyl formate	59	5.246	5.246	(1.090)	1663	2.00000	1.91(aM)
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.300)	5000	20.0000	16.75
140	1,3-Butadiene	54	1.404	1.404	(0.292)	1071	1.00000	1.08(a)
182	Epichlorohydrin	57	6.626	6.626	(1.193)	94	4.00000	9.40(M)
M 94	1,2-Dichloroethylene (total)	96				2183	2.00000	(a)
130	Ethyl Acetate	43	4.542	4.542	(0.943)	719	1.00000	0.49(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.910)	1339	1.00000	0.99(aM)
189	n-Butyl acetate	43	7.713	7.713	(0.942)	1668	1.00000	0.90(aM)
134	Cyclohexanone	55	9.156	9.156	(0.900)	1014	20.0000	18.96(Ta)
185	Isoprene	39	2.169	2.169	(0.450)	191	1.00000	0.65(aM)
188	Isopropyl acetate	43	5.288	5.288	(0.952)	3096	1.00000	0.94(aM)
150	Allyl alcohol	57	3.346	3.346	(0.695)	714	20.0000	20.30
200	Dimethyl Disulfide	94	6.750	6.750	(0.825)	353	1.00000	1.77(aM)
202	Isobutylene	41	1.749	1.749	(0.363)	383	1.00000	1.05(aM)
133	Ethyl Acrylate	55	5.951	5.951	(1.236)	2020	1.00000	0.79(aM)
163	Butyl methacrylate	41	9.659	9.659	(0.950)	975	1.00000	0.76(a)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	686	1.00000	1.70(aM)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	1061	1.00000	0.83(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	2124	1.00000	0.91(aAM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	1792	1.00000	0.90(aM)
206	2-Chloropropene	41	1.925	1.925	(0.400)	1176	1.00000	0.78(aAM)

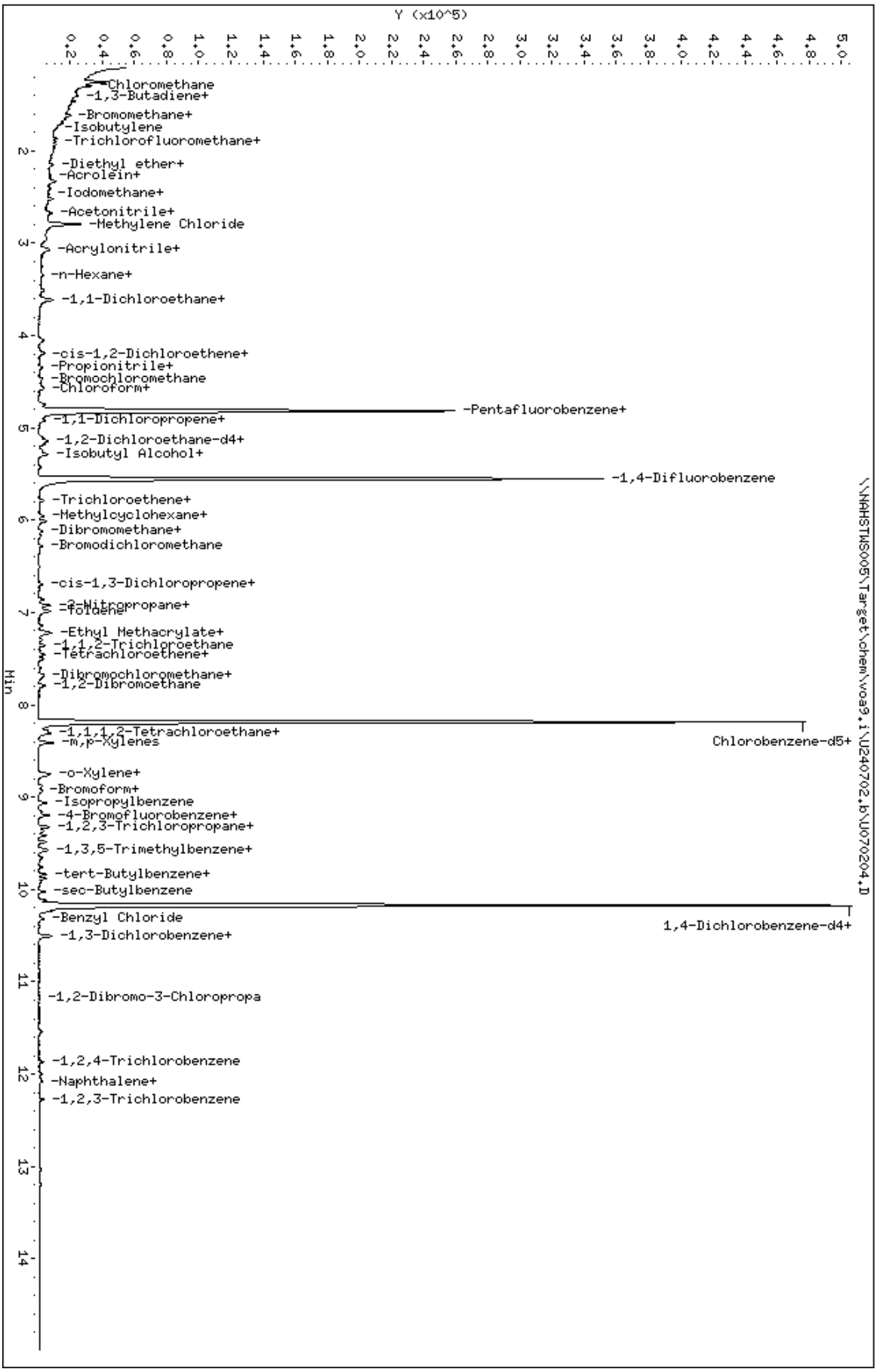
QC Flag Legend

T - Target compound detected outside RT window.

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240702,b\U070204,D
Date : 02-JUL-2024 10:51
Client ID: WSTD001
Sample Info: WSTD001;WSTD001;1;3
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

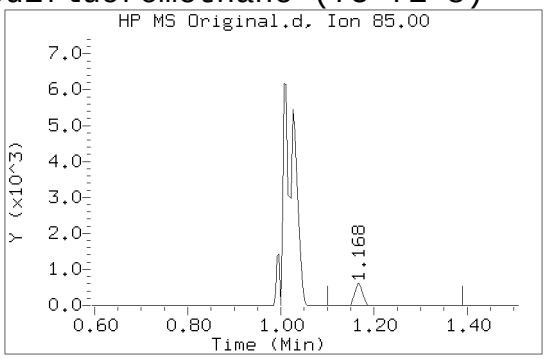
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

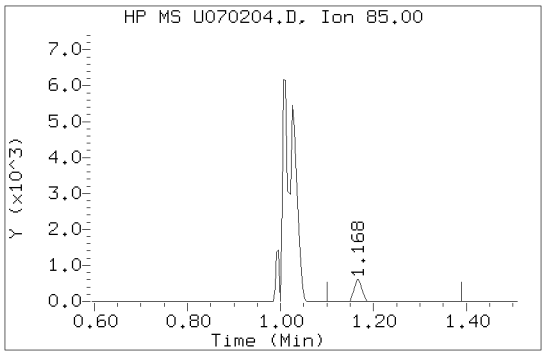
BEFORE

MASS
85
AREA
686
HEIGHT
614
10-Jul-2024
08:51
RUCHA
PATEL



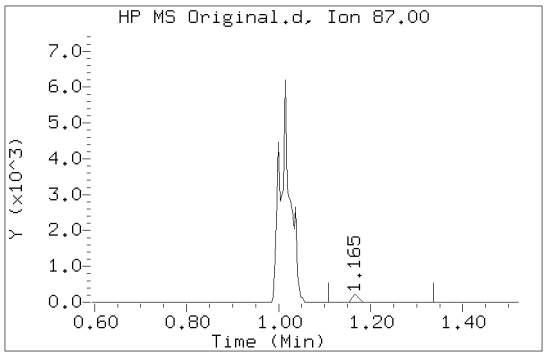
AFTER

MASS
85
AREA
686
HEIGHT
614
10-Jul-2024
09:57
RUCHA
PATEL



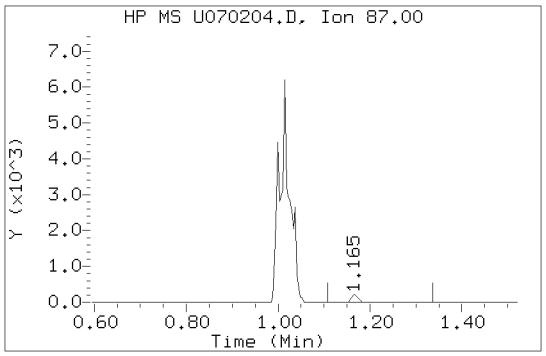
BEFORE

MASS
87
AREA
208
HEIGHT
213
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
87
AREA
208
HEIGHT
213
10-Jul-2024
09:57
RUCHA
PATEL

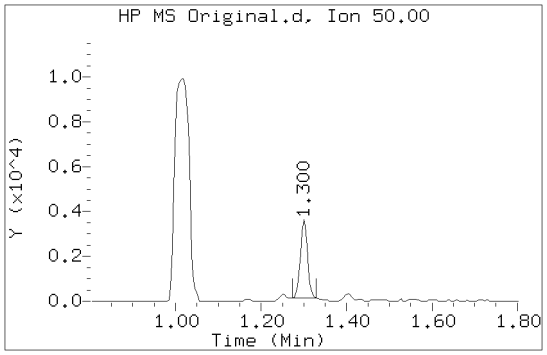


Chloromethane (74-87-3)

Reason Code:

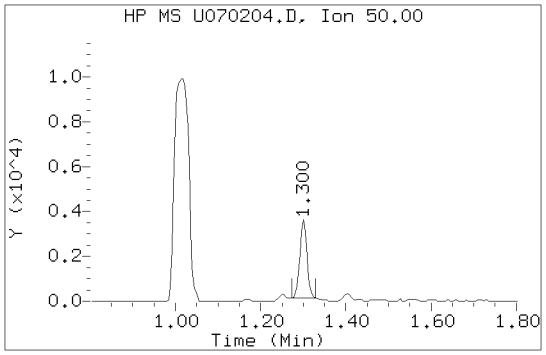
BEFORE

MASS
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AREA
4126
HEIGHT
3505
10-Jul-2024
08:51
RUCHA
PATEL



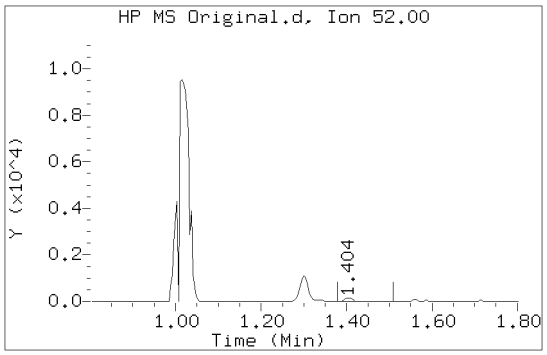
AFTER

MASS
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AREA
4126
HEIGHT
3505
10-Jul-2024
09:57
RUCHA
PATEL



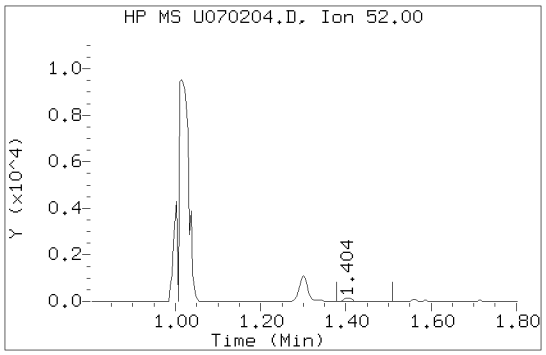
BEFORE

MASS
52
AREA
171
HEIGHT
146
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
52
AREA
171
HEIGHT
146
10-Jul-2024
09:57
RUCHA
PATEL



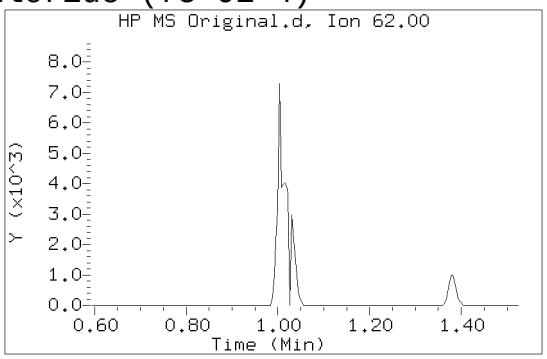
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Vinyl Chloride (75-01-4)

Reason Code:

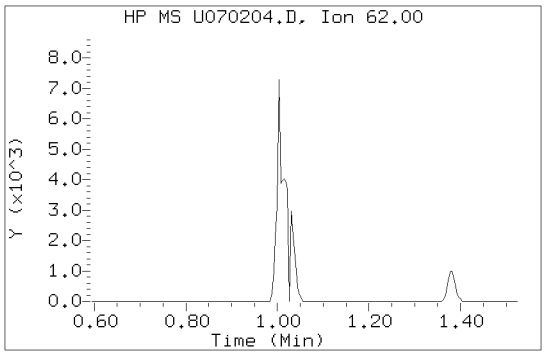
BEFORE

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AREA
1156
HEIGHT
999
10-Jul-2024
08:51
RUCHA
PATEL



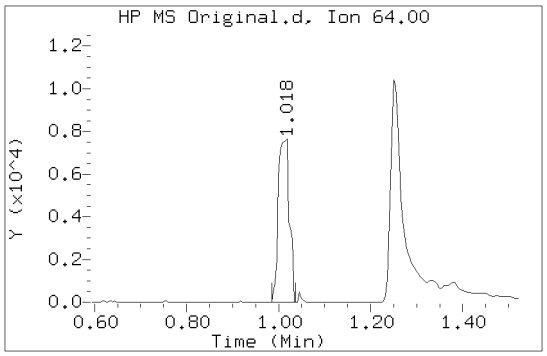
AFTER

MASS
62
AREA
1156
HEIGHT
999
10-Jul-2024
09:57
RUCHA
PATEL



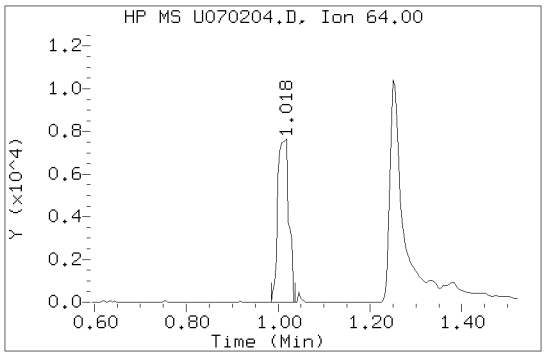
BEFORE

MASS
64
AREA
12773
HEIGHT
7648
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
64
AREA
12773
HEIGHT
7648
10-Jul-2024
09:57
RUCHA
PATEL

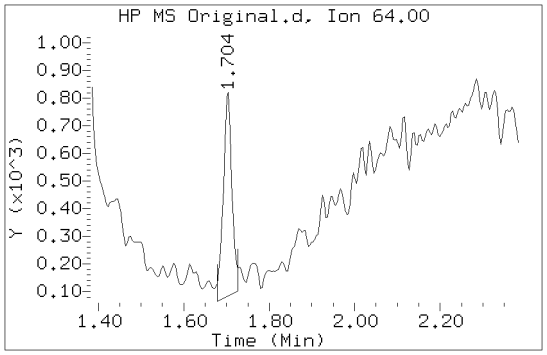


Chloroethane (75-00-3)

Reason Code:

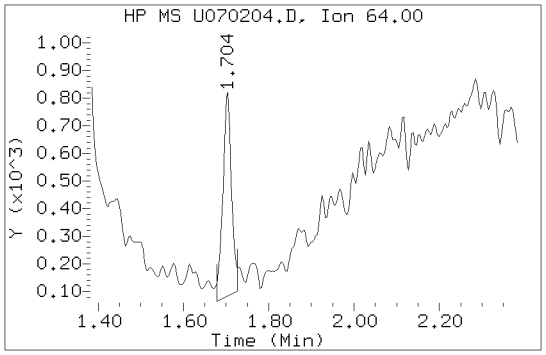
BEFORE

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AREA
1047
HEIGHT
736
10-Jul-2024
08:51
RUCHA
PATEL



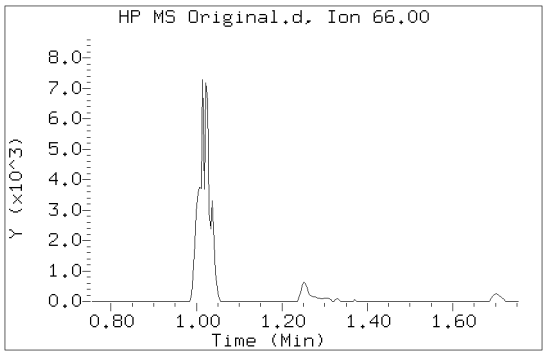
AFTER

MASS
64
AREA
1047
HEIGHT
736
10-Jul-2024
09:57
RUCHA
PATEL



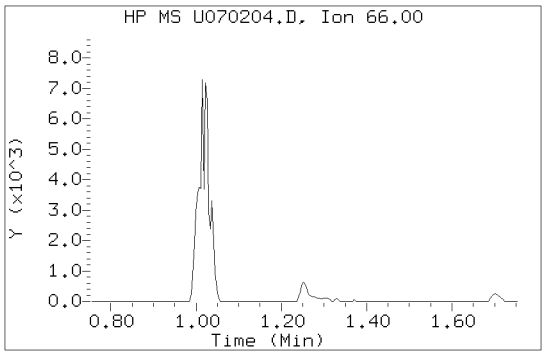
BEFORE

MASS
66
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
66
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



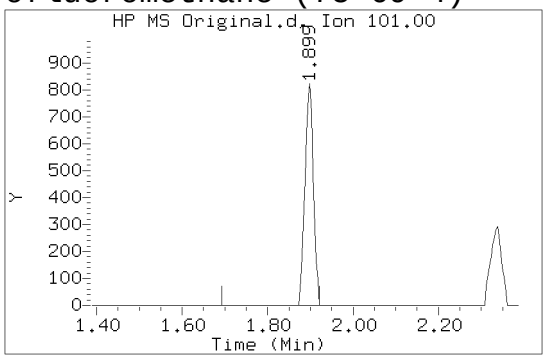
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Trichlorofluoromethane (75-69-4)

Reason Code:

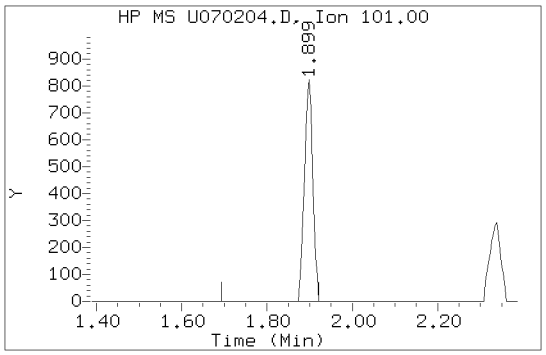
BEFORE

MASS
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AREA
1134
HEIGHT
823
10-Jul-2024
08:51
RUCHA
PATEL



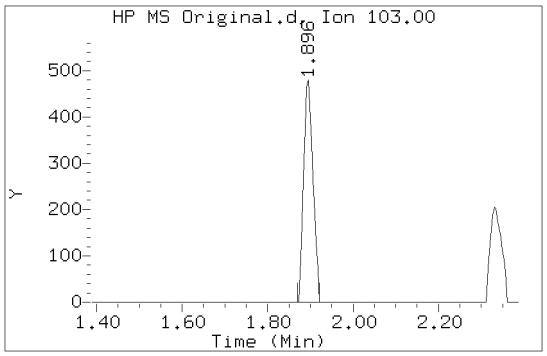
AFTER

MASS
101
AREA
1134
HEIGHT
823
10-Jul-2024
09:57
RUCHA
PATEL



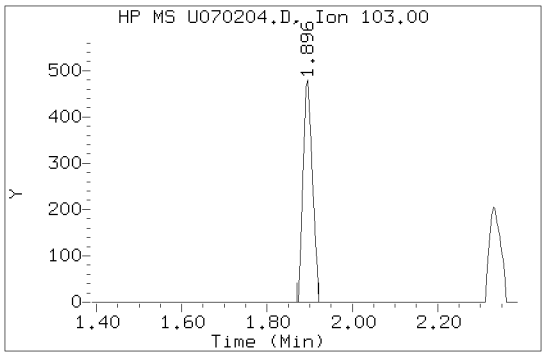
BEFORE

MASS
103
AREA
737
HEIGHT
480
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
103
AREA
737
HEIGHT
480
10-Jul-2024
09:57
RUCHA
PATEL

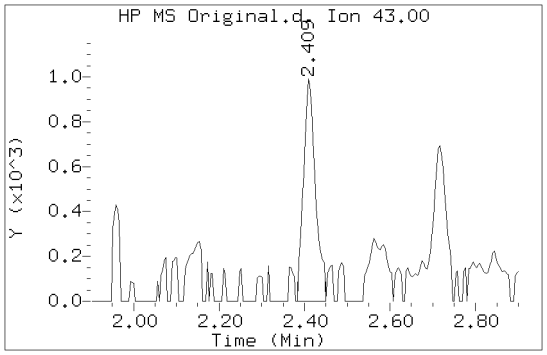


Acetone (67-64-1)

Reason Code:

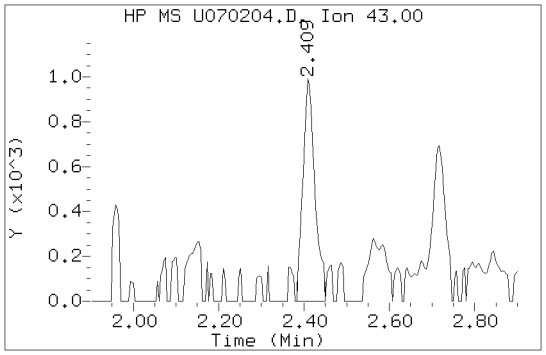
BEFORE

MASS
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AREA
1969
HEIGHT
991
10-Jul-2024
08:51
RUCHA
PATEL



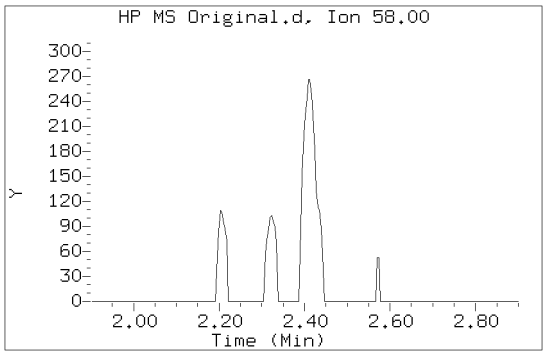
AFTER

MASS
43
AREA
1969
HEIGHT
991
10-Jul-2024
09:57
RUCHA
PATEL



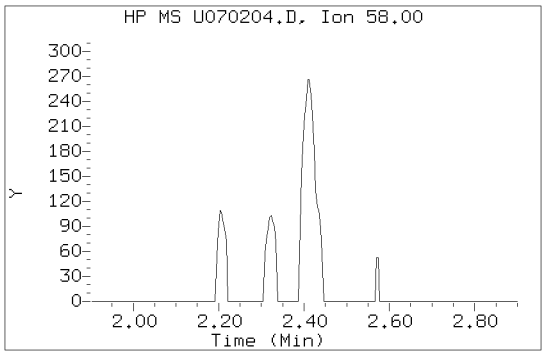
BEFORE

MASS
58
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



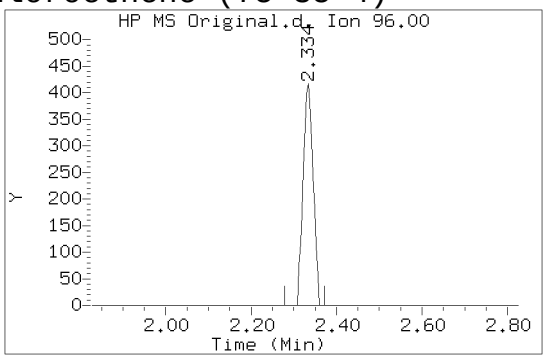
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

1,1-Dichloroethene (75-35-4)

Reason Code:

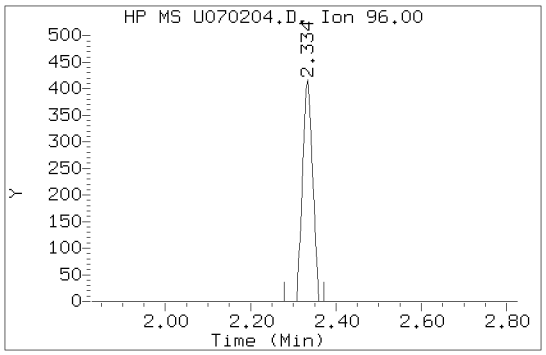
BEFORE

MASS
96
AREA
688
HEIGHT
417
10-Jul-2024
08:51
RUCHA
PATEL



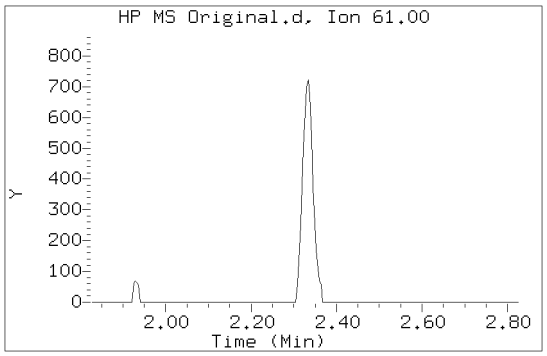
AFTER

MASS
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AREA
688
HEIGHT
417
10-Jul-2024
09:57
RUCHA
PATEL



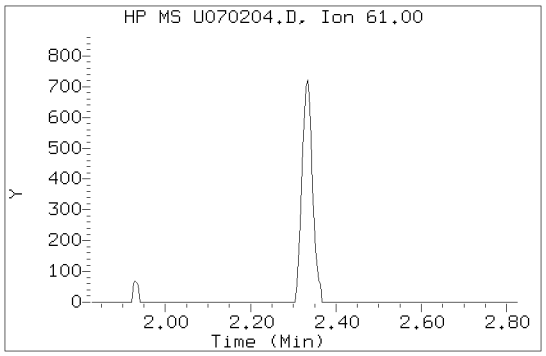
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



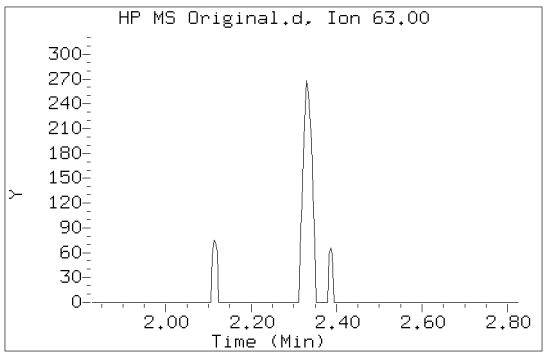
AFTER

MASS
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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



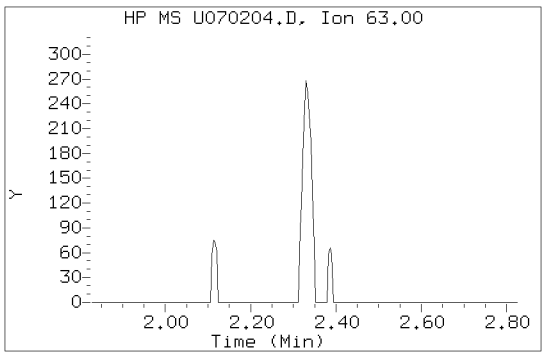
BEFORE

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AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
63
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

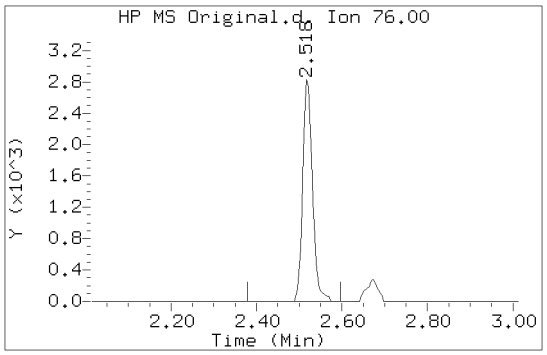


Carbon Disulfide (75-15-0)

Reason Code:

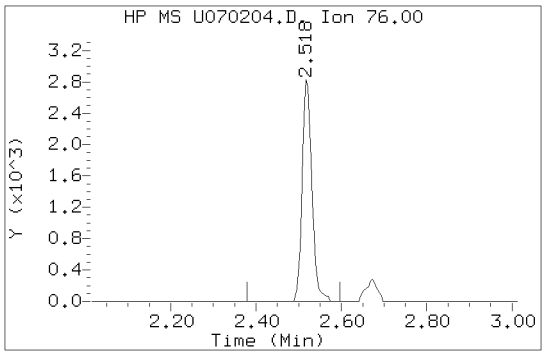
BEFORE

MASS
76
AREA
4539
HEIGHT
2828
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
76
AREA
4539
HEIGHT
2828
10-Jul-2024
09:57
RUCHA
PATEL

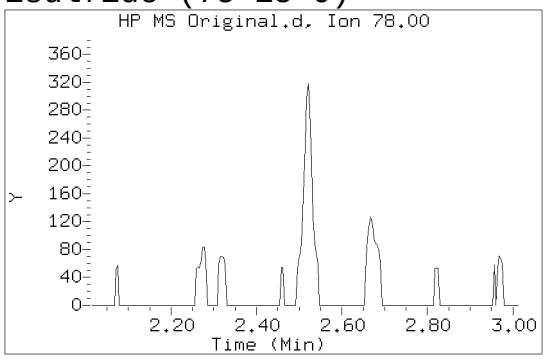


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Carbon Disulfide (75-15-0)

BEFORE

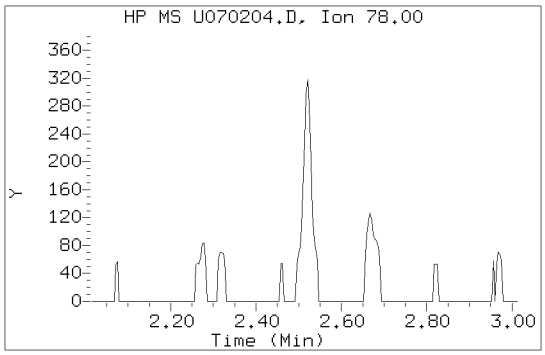
MASS
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AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

AFTER

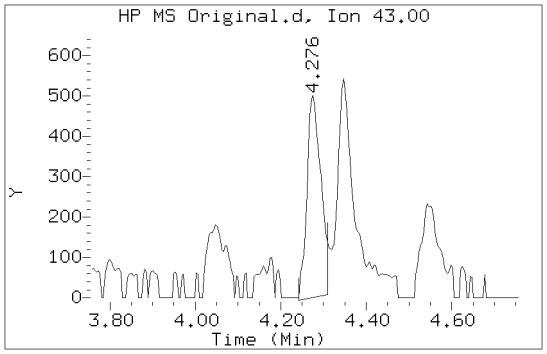
MASS
78
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



2-Butanone (78-93-3)

BEFORE

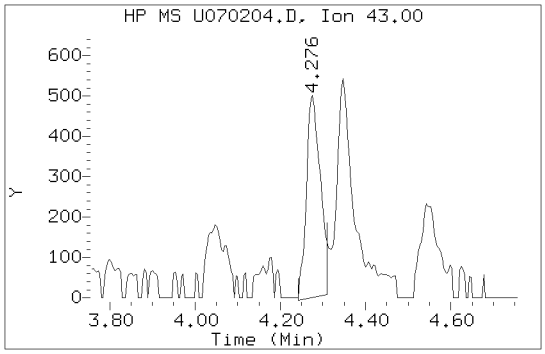
MASS
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AREA
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HEIGHT
500
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

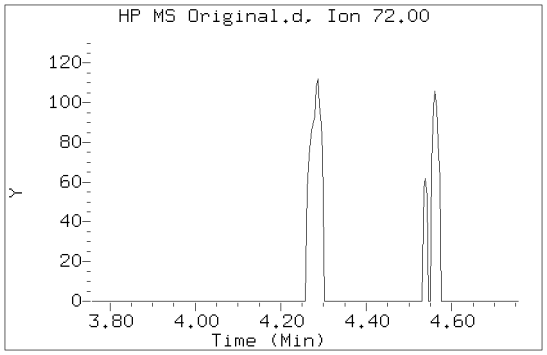
AFTER

MASS
43
AREA
1151
HEIGHT
500
10-Jul-2024
09:57
RUCHA
PATEL



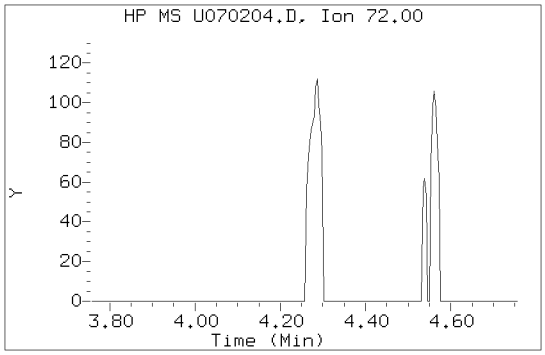
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

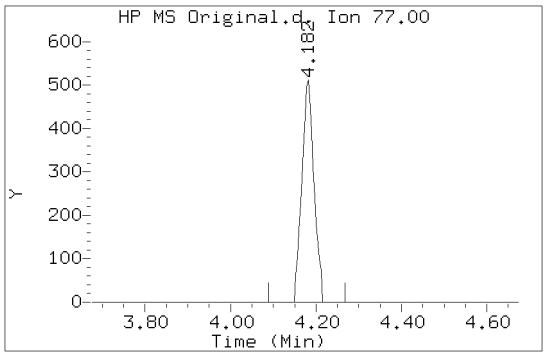
MASS
72
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



2,2-Dichloropropane (594-20-7)

BEFORE

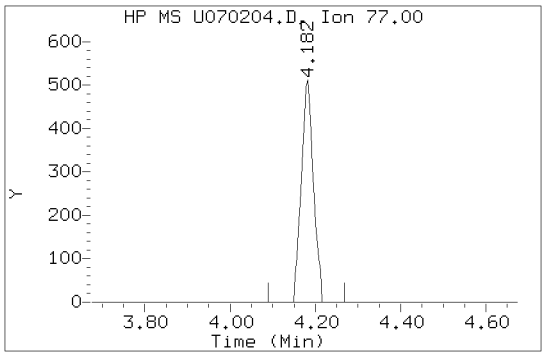
MASS
77
AREA
1019
HEIGHT
512
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

AFTER

MASS
77
AREA
1019
HEIGHT
512
10-Jul-2024
09:57
RUCHA
PATEL



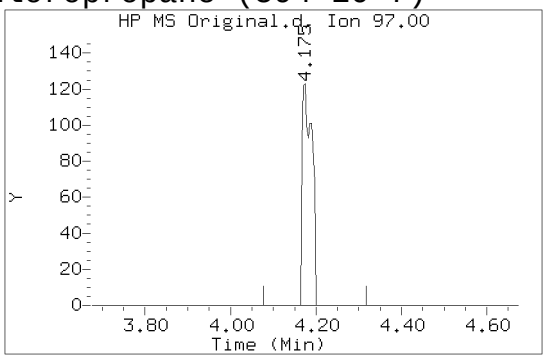
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

2,2-Dichloropropane (594-20-7)

Reason Code:

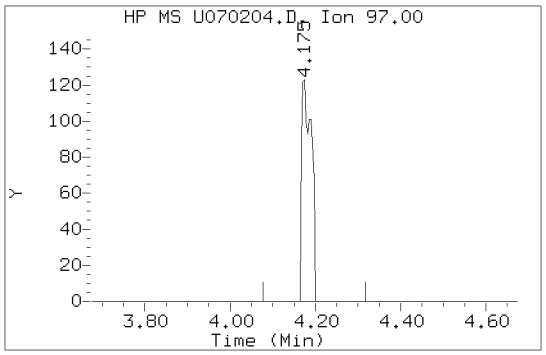
BEFORE

MASS
97
AREA
199
HEIGHT
123
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
97
AREA
199
HEIGHT
123
10-Jul-2024
09:57
RUCHA
PATEL

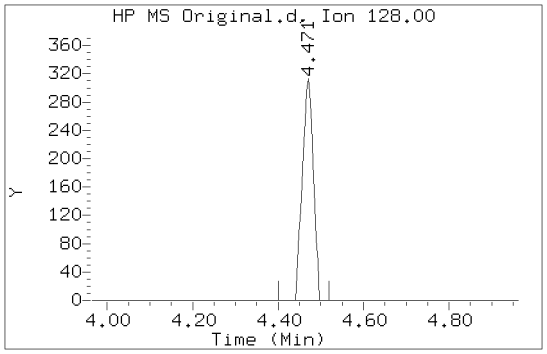


Bromochloromethane (74-97-5)

Reason Code:

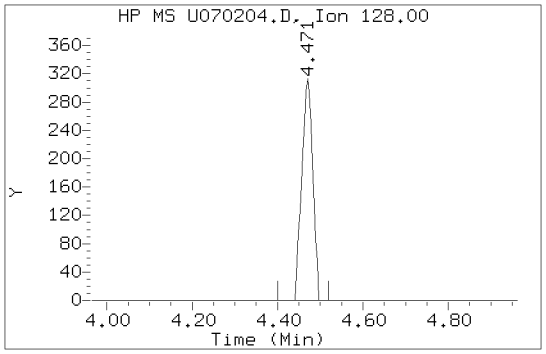
BEFORE

MASS
128
AREA
567
HEIGHT
313
10-Jul-2024
08:51
RUCHA
PATEL



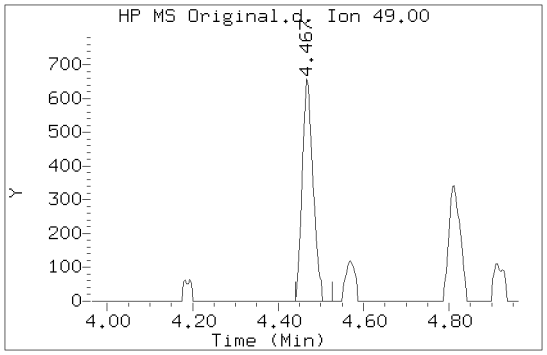
AFTER

MASS
128
AREA
567
HEIGHT
313
10-Jul-2024
09:57
RUCHA
PATEL



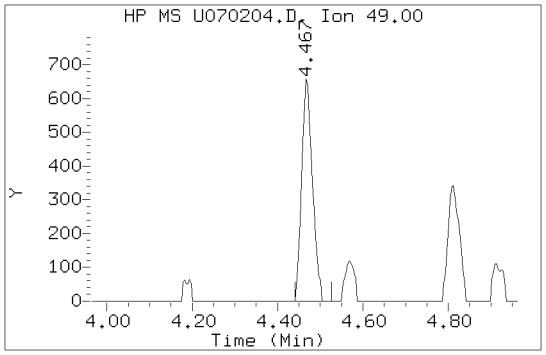
BEFORE

MASS
49
AREA
1168
HEIGHT
658
10-Jul-2024
08:51
RUCHA
PATEL



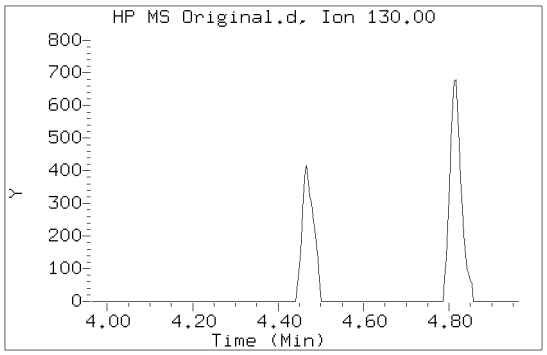
AFTER

MASS
49
AREA
1168
HEIGHT
658
10-Jul-2024
09:57
RUCHA
PATEL



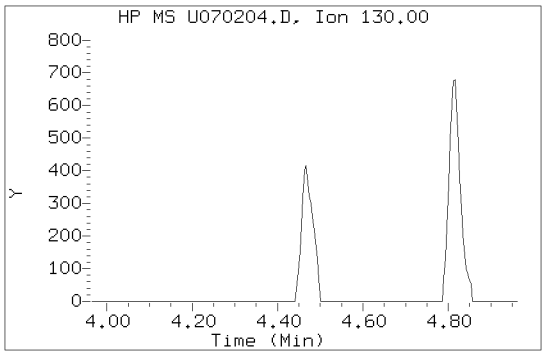
BEFORE

MASS
130
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
130
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



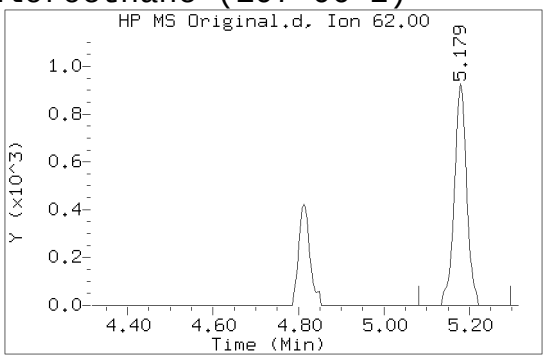
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dichloroethane (107-06-2)

Reason Code:

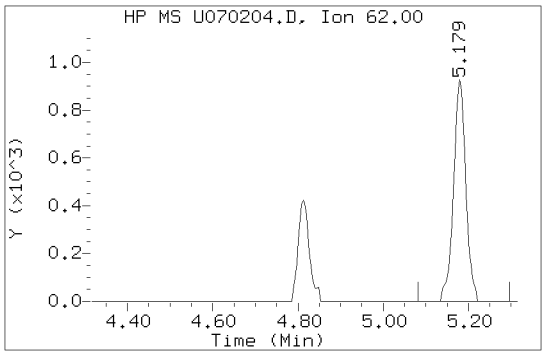
BEFORE

MASS
62
AREA
1851
HEIGHT
927
10-Jul-2024
08:51
RUCHA
PATEL



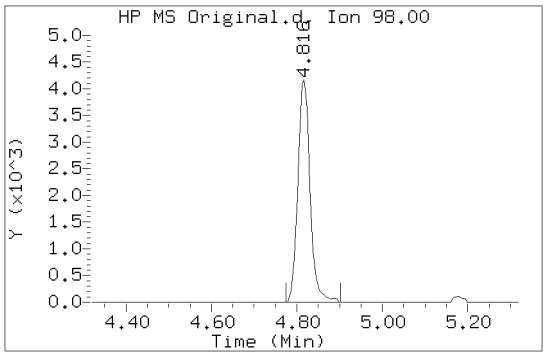
AFTER

MASS
62
AREA
1851
HEIGHT
927
10-Jul-2024
09:57
RUCHA
PATEL



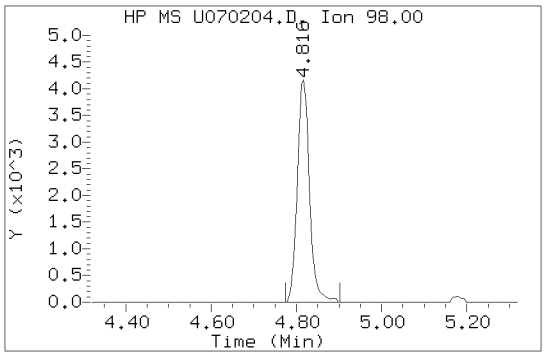
BEFORE

MASS
98
AREA
8428
HEIGHT
4166
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
98
AREA
8428
HEIGHT
4166
10-Jul-2024
09:57
RUCHA
PATEL

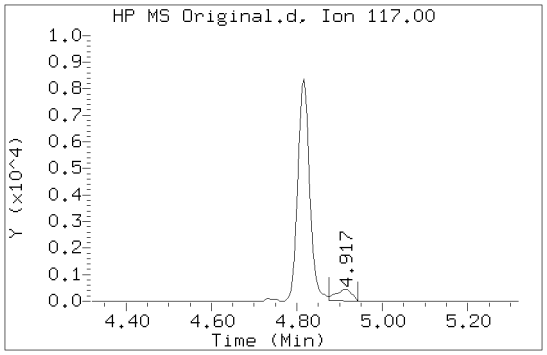


Carbon Tetrachloride (56-23-5)

Reason Code:

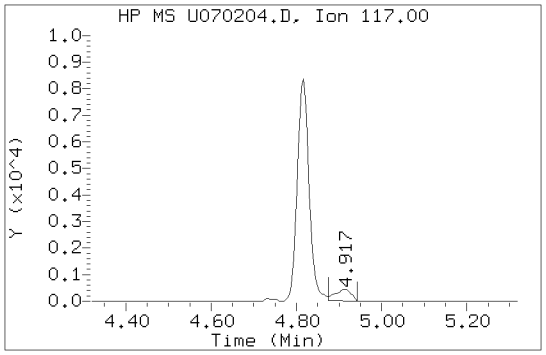
BEFORE

MASS
117
AREA
1148
HEIGHT
427
10-Jul-2024
08:51
RUCHA
PATEL



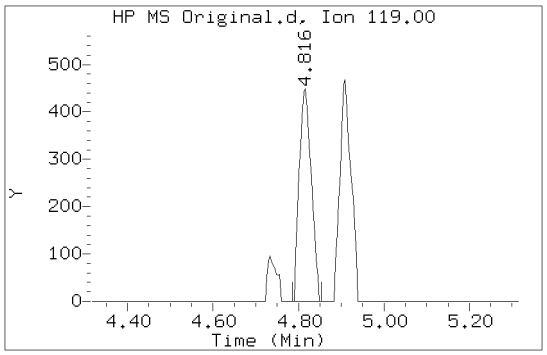
AFTER

MASS
117
AREA
1148
HEIGHT
427
10-Jul-2024
09:57
RUCHA
PATEL



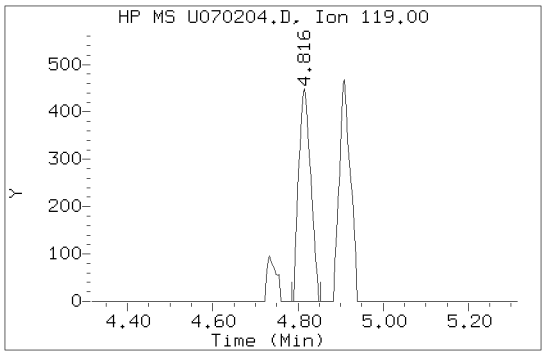
BEFORE

MASS
119
AREA
897
HEIGHT
449
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
119
AREA
897
HEIGHT
449
10-Jul-2024
09:57
RUCHA
PATEL



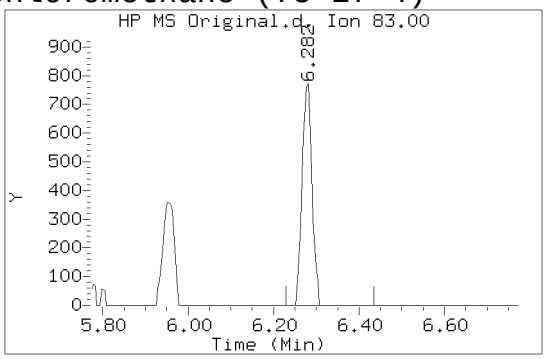
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

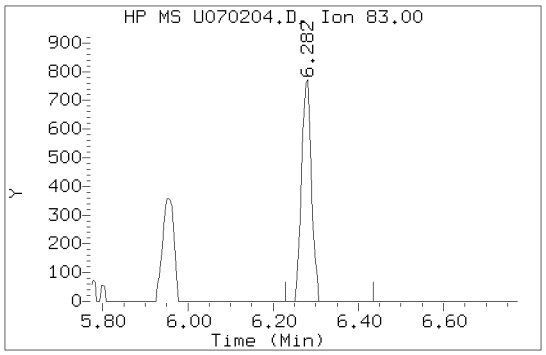
BEFORE

MASS
83
AREA
1267
HEIGHT
772
10-Jul-2024
08:51
RUCHA
PATEL



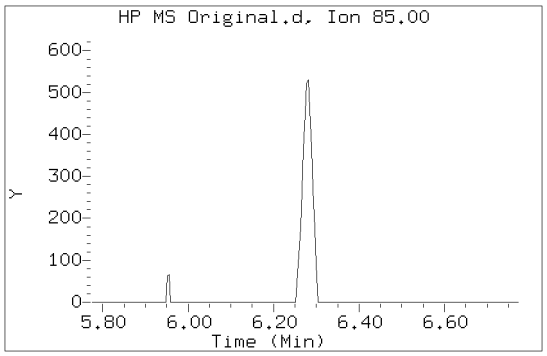
AFTER

MASS
83
AREA
1267
HEIGHT
772
10-Jul-2024
09:57
RUCHA
PATEL



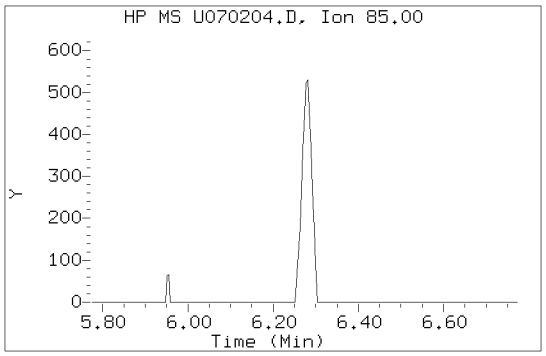
BEFORE

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10-Jul-2024
08:51
RUCHA
PATEL



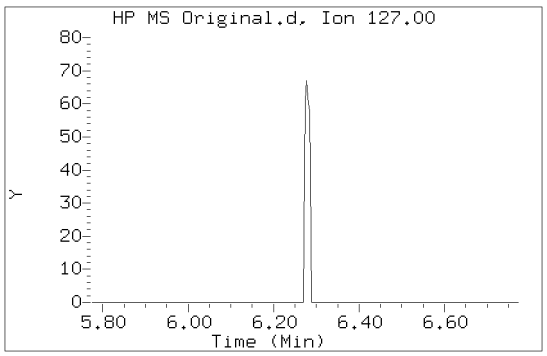
AFTER

MASS
85
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



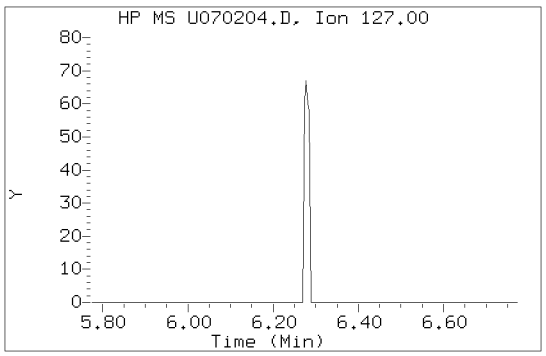
BEFORE

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127
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
127
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

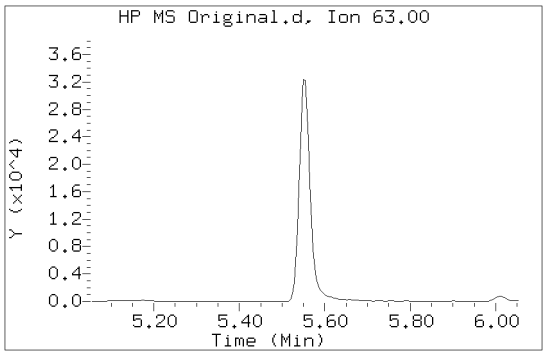


1,2-Dichloropropane (78-87-5)

Reason Code:

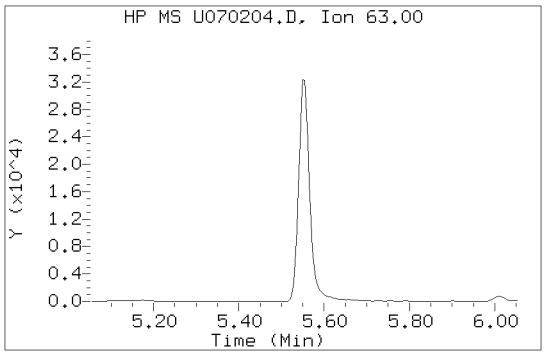
BEFORE

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63
AREA
1417
HEIGHT
739
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
63
AREA
1417
HEIGHT
739
10-Jul-2024
09:57
RUCHA
PATEL



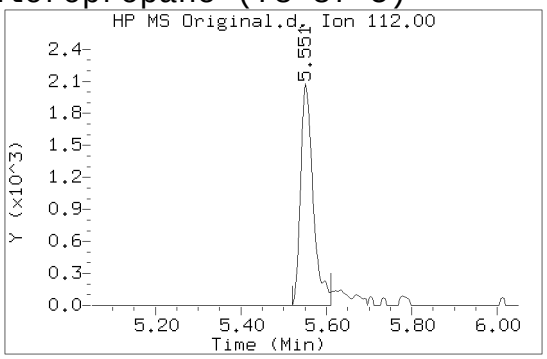
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dichloropropane (78-87-5)

Reason Code:

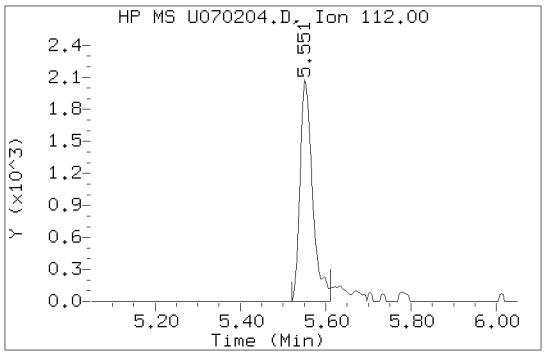
BEFORE

MASS
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AREA
4318
HEIGHT
2078
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
112
AREA
4318
HEIGHT
2078
10-Jul-2024
09:57
RUCHA
PATEL

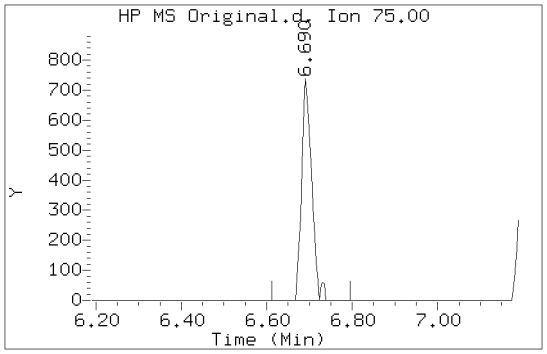


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

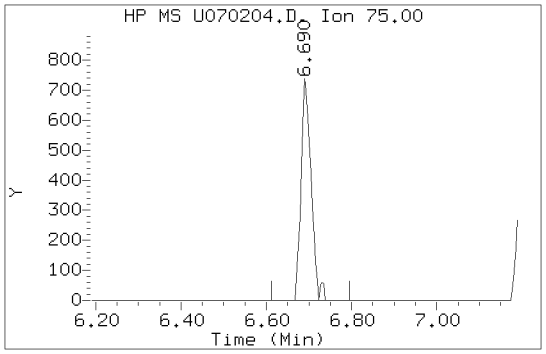
BEFORE

MASS
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AREA
1244
HEIGHT
738
10-Jul-2024
08:51
RUCHA
PATEL



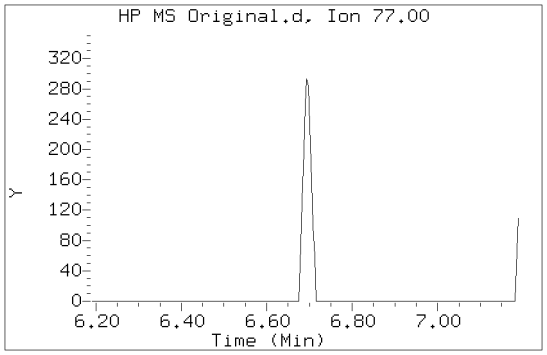
AFTER

MASS
75
AREA
1244
HEIGHT
738
10-Jul-2024
09:57
RUCHA
PATEL



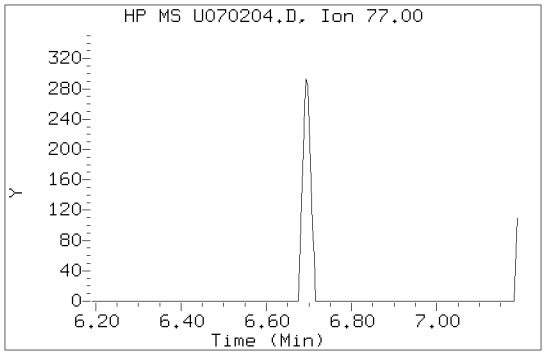
BEFORE

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08:51
RUCHA
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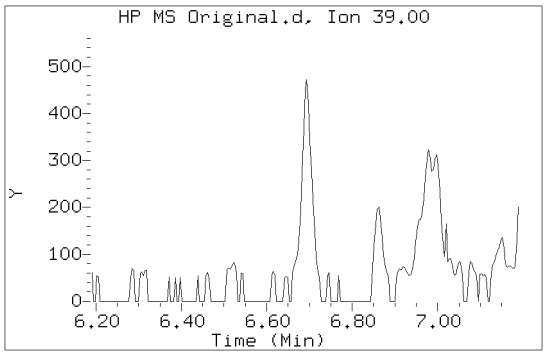
AFTER

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AREA
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10-Jul-2024
09:57
RUCHA
PATEL



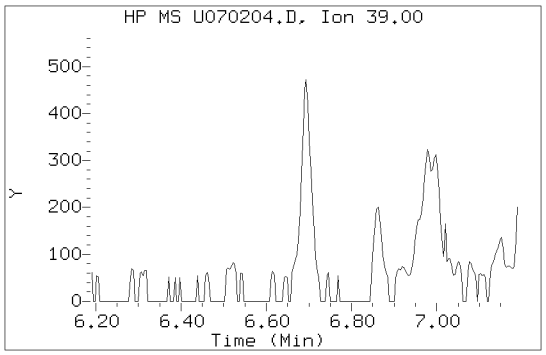
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
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PATEL



AFTER

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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



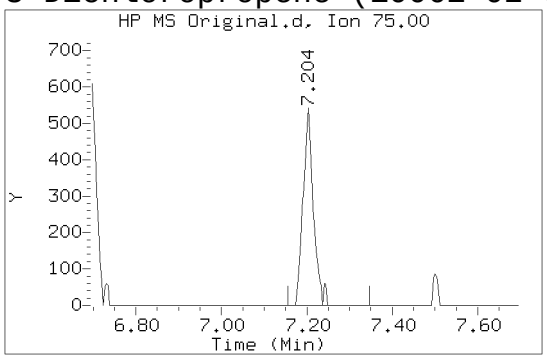
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

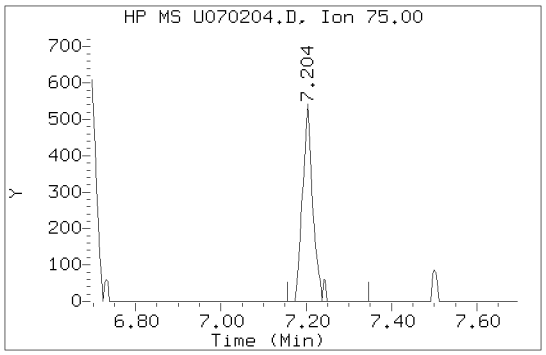
BEFORE

MASS
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AREA
931
HEIGHT
543
10-Jul-2024
08:51
RUCHA
PATEL



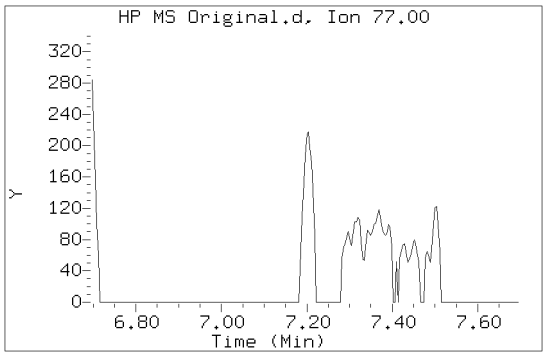
AFTER

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75
AREA
931
HEIGHT
543
10-Jul-2024
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RUCHA
PATEL



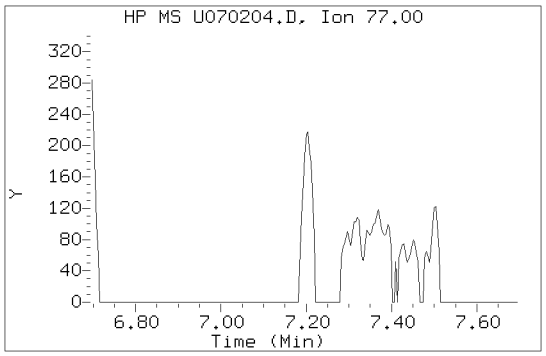
BEFORE

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AREA
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10-Jul-2024
08:51
RUCHA
PATEL



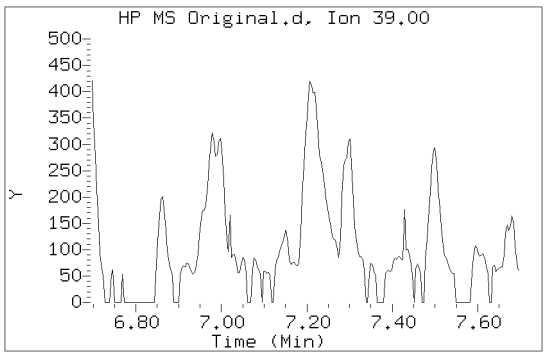
AFTER

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AREA
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



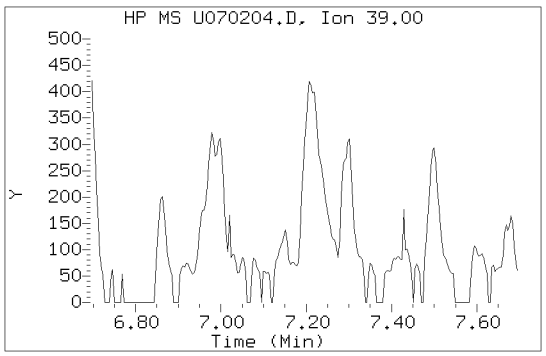
BEFORE

MASS
39
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL

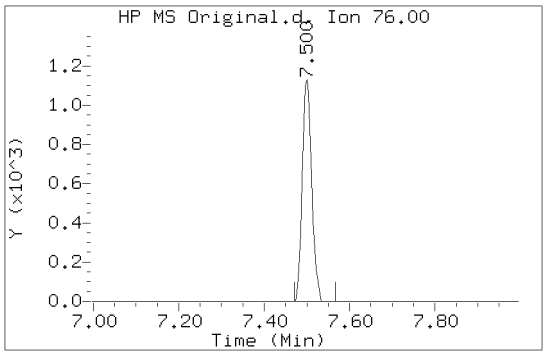


1,3-Dichloropropane (142-28-9)

Reason Code:

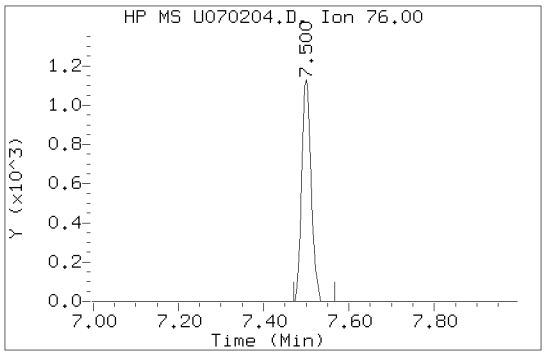
BEFORE

MASS
76
AREA
1784
HEIGHT
1130
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
76
AREA
1784
HEIGHT
1130
10-Jul-2024
09:57
RUCHA
PATEL



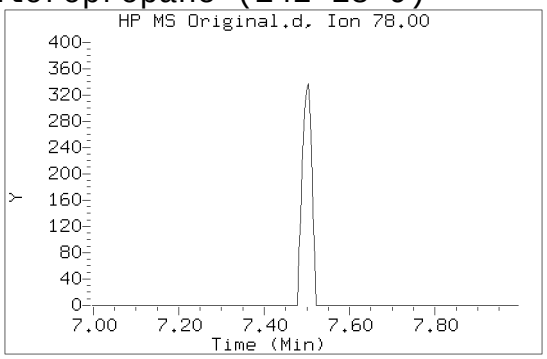
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

1,3-Dichloropropane (142-28-9)

Reason Code:

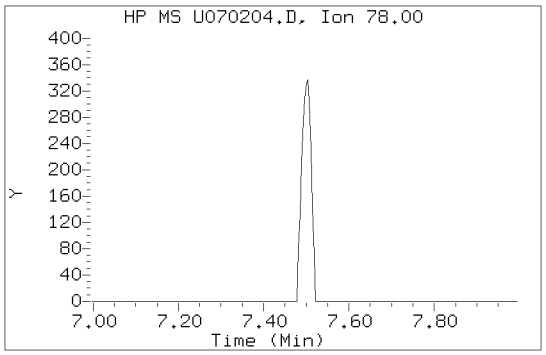
BEFORE

MASS
78
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
78
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

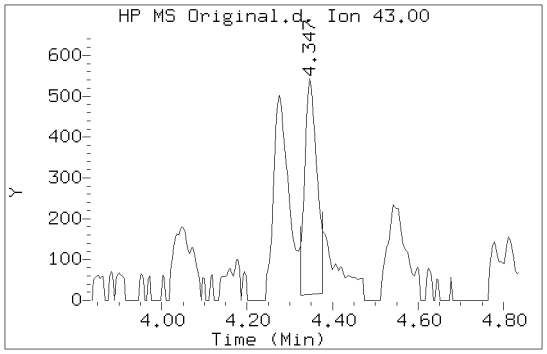


Vinyl Acetate (108-05-4)

Reason Code:

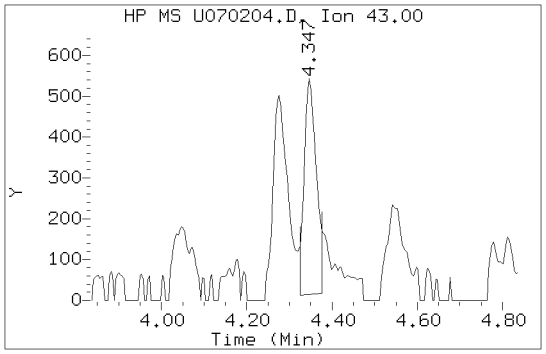
BEFORE

MASS
43
AREA
1080
HEIGHT
528
10-Jul-2024
08:51
RUCHA
PATEL



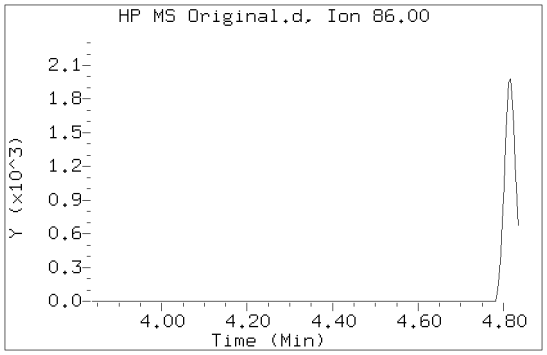
AFTER

MASS
43
AREA
1080
HEIGHT
528
10-Jul-2024
09:57
RUCHA
PATEL



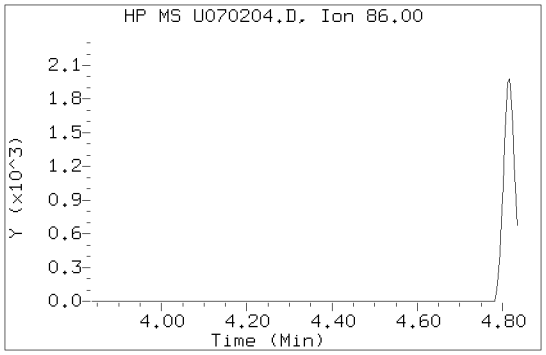
BEFORE

MASS
86
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

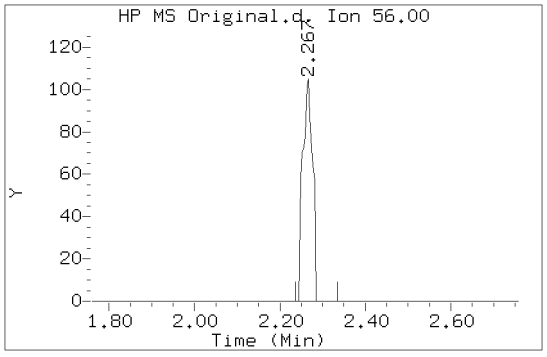


Acrolein (107-02-8)

Reason Code:

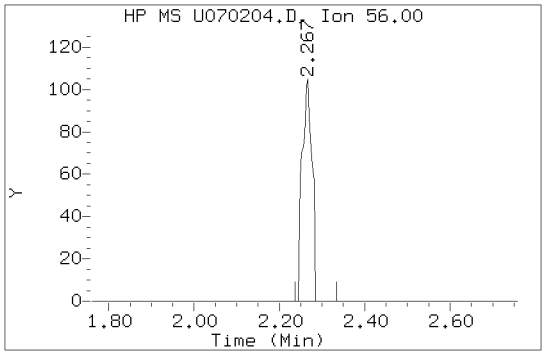
BEFORE

MASS
56
AREA
172
HEIGHT
105
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
56
AREA
172
HEIGHT
105
10-Jul-2024
09:57
RUCHA
PATEL



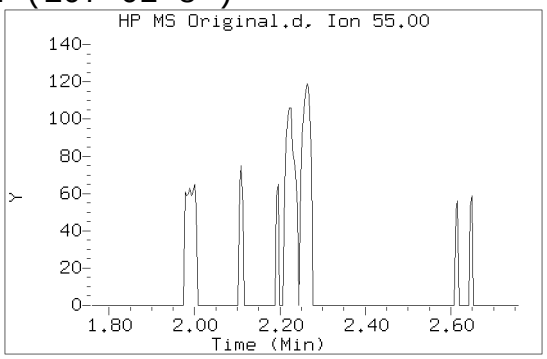
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

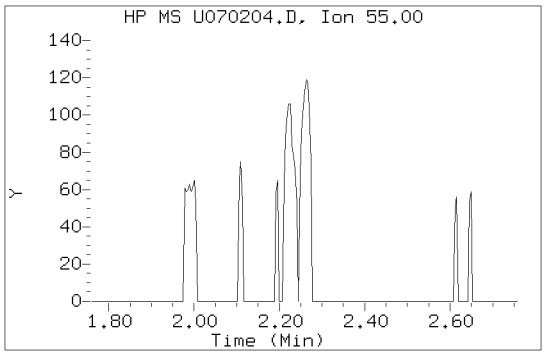
BEFORE

MASS
55
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

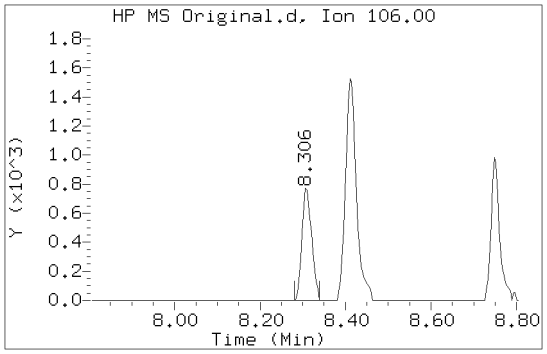


Ethylbenzene (100-41-4)

Reason Code:

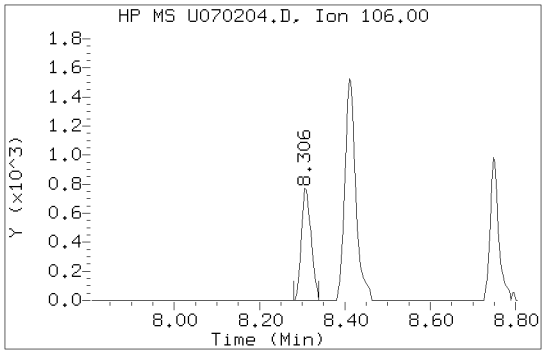
BEFORE

MASS
106
AREA
1248
HEIGHT
770
10-Jul-2024
08:51
RUCHA
PATEL



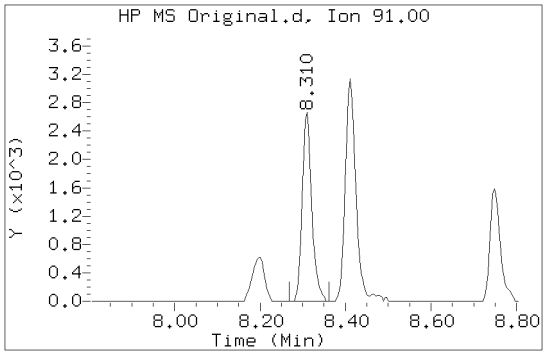
AFTER

MASS
106
AREA
1248
HEIGHT
770
10-Jul-2024
09:57
RUCHA
PATEL



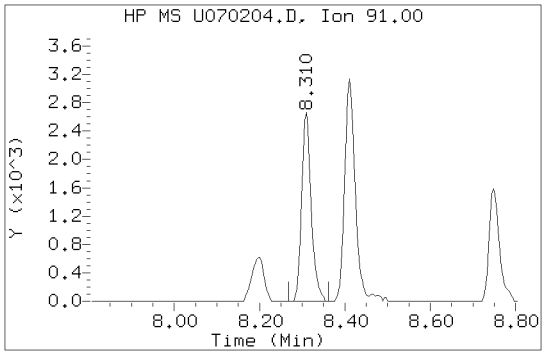
BEFORE

MASS
91
AREA
4240
HEIGHT
2669
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
91
AREA
4240
HEIGHT
2669
10-Jul-2024
09:57
RUCHA
PATEL

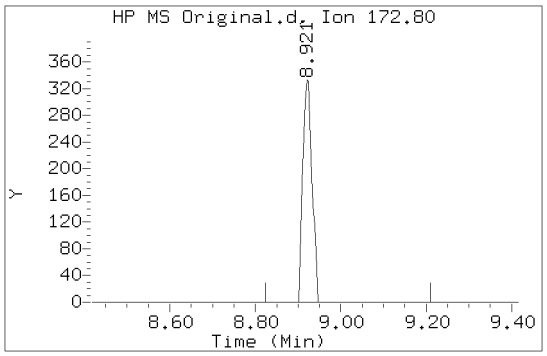


Bromoform (75-25-2)

Reason Code:

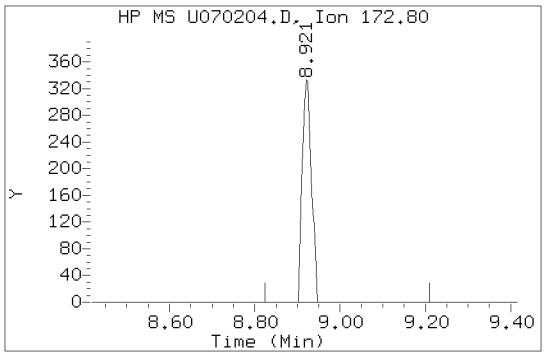
BEFORE

MASS
172.8
AREA
515
HEIGHT
333
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
172.8
AREA
515
HEIGHT
333
10-Jul-2024
09:57
RUCHA
PATEL



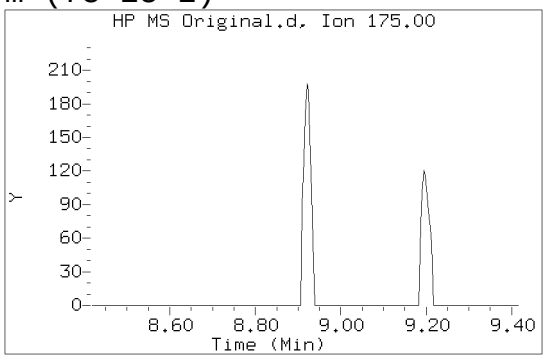
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

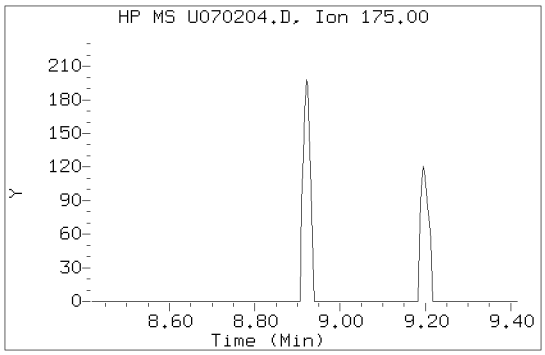
BEFORE

MASS
175
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



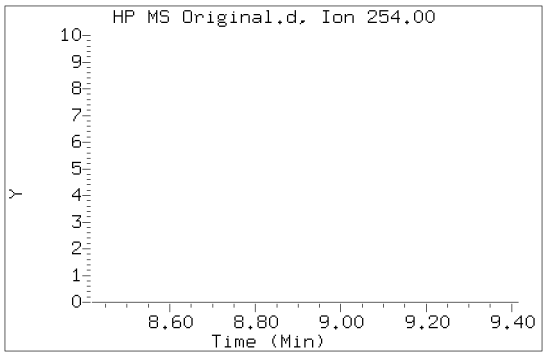
AFTER

MASS
175
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



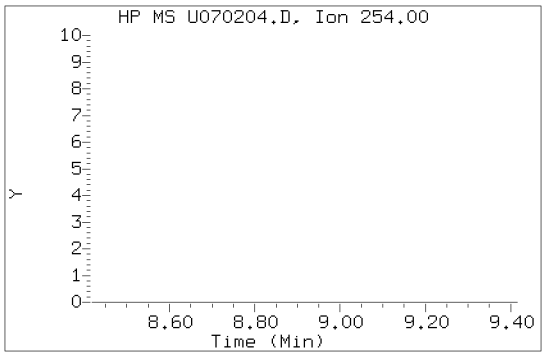
BEFORE

MASS
254
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

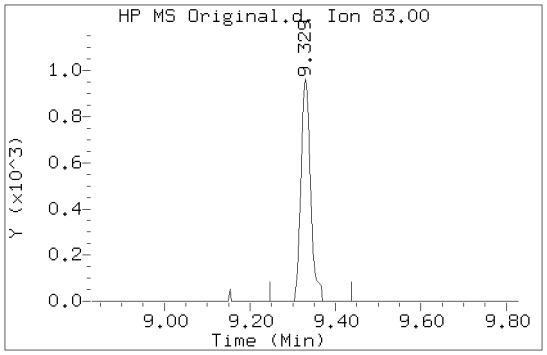


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

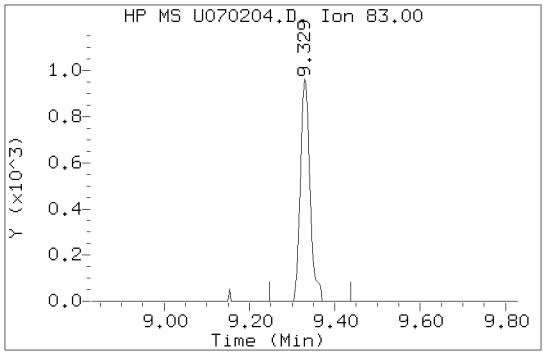
BEFORE

MASS
83
AREA
1536
HEIGHT
964
10-Jul-2024
08:51
RUCHA
PATEL



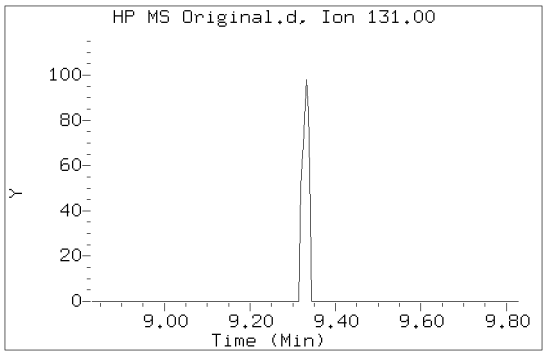
AFTER

MASS
83
AREA
1536
HEIGHT
964
10-Jul-2024
09:57
RUCHA
PATEL



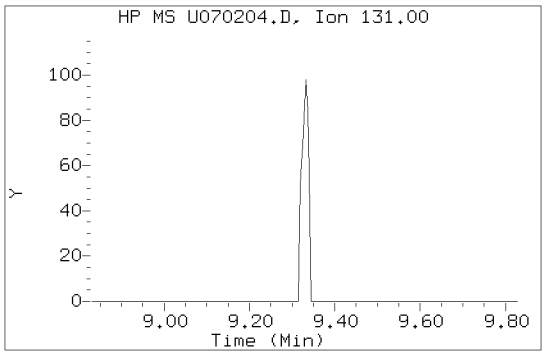
BEFORE

MASS
131
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
131
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



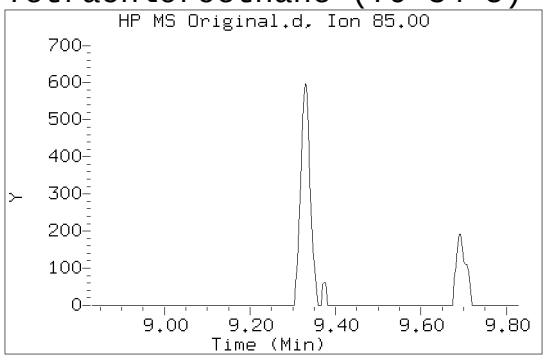
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

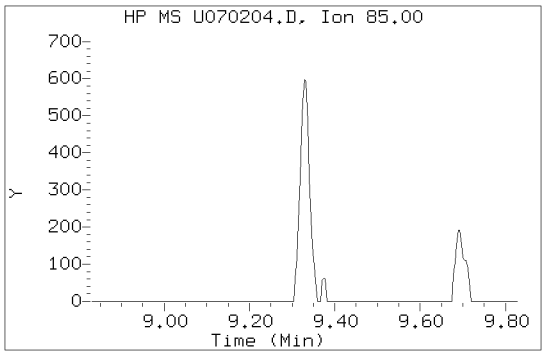
BEFORE

MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

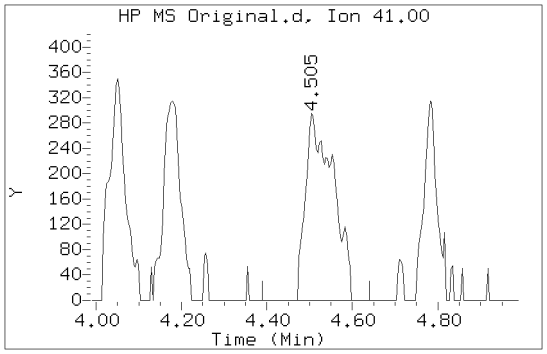


Methacrylonitrile (126-98-7)

Reason Code:

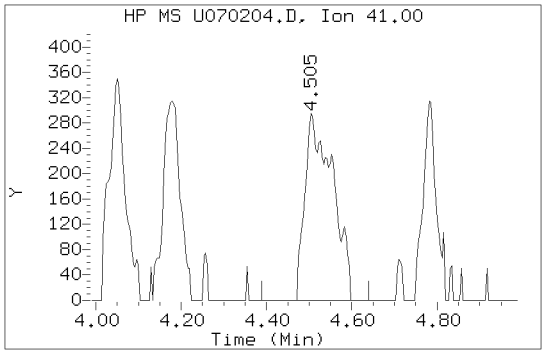
BEFORE

MASS
41
AREA
1341
HEIGHT
296
10-Jul-2024
08:51
RUCHA
PATEL



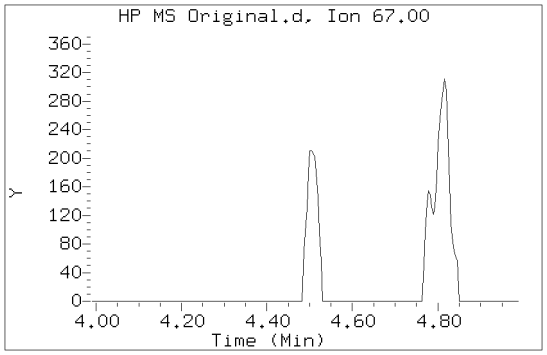
AFTER

MASS
41
AREA
1341
HEIGHT
296
10-Jul-2024
09:57
RUCHA
PATEL



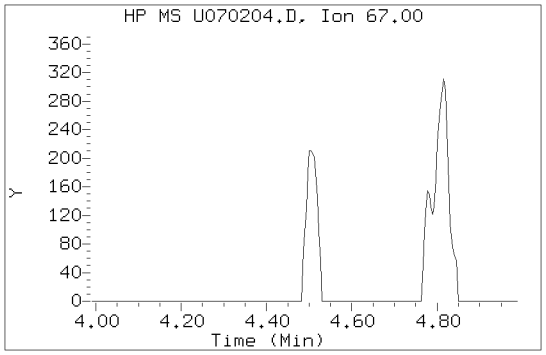
BEFORE

MASS
67
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



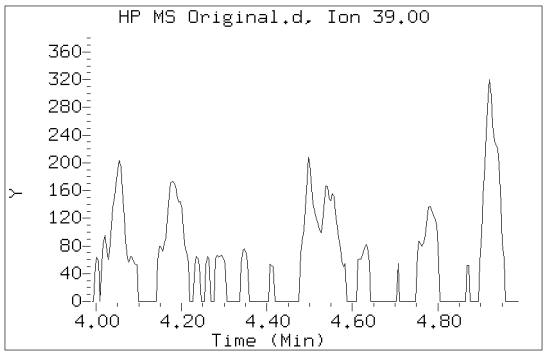
AFTER

MASS
67
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



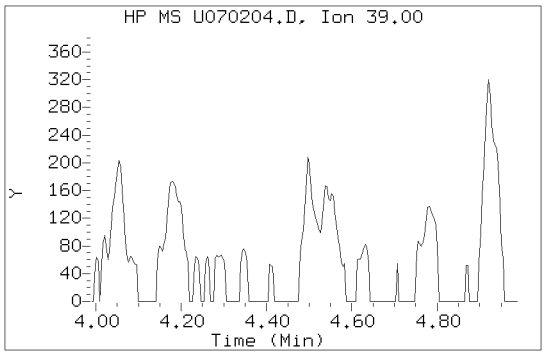
BEFORE

MASS
39
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



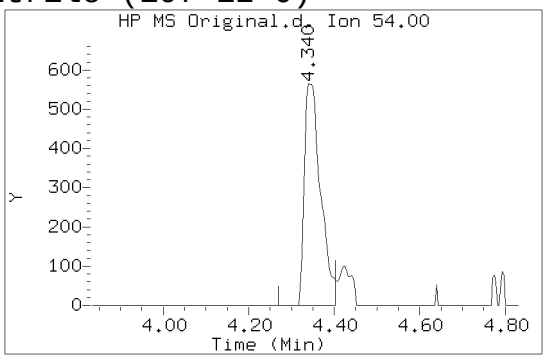
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

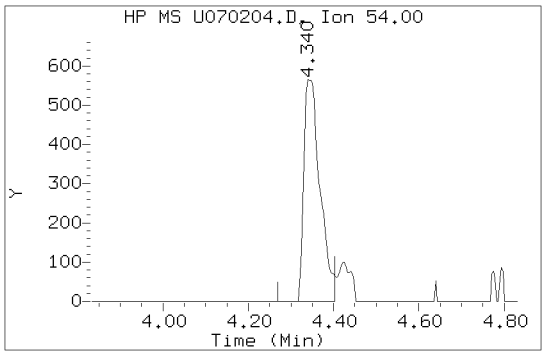
BEFORE

MASS
54
AREA
1499
HEIGHT
565
10-Jul-2024
08:51
RUCHA
PATEL



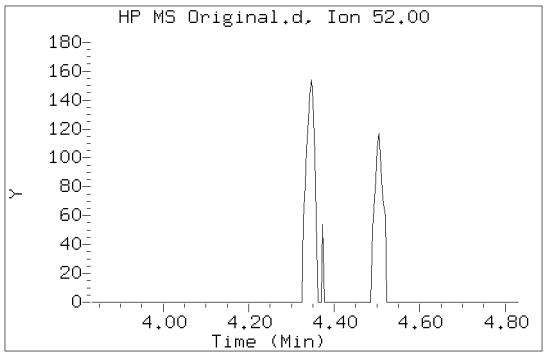
AFTER

MASS
54
AREA
1499
HEIGHT
565
10-Jul-2024
09:57
RUCHA
PATEL



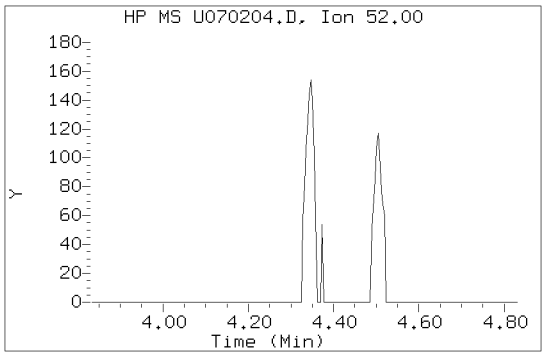
BEFORE

MASS
52
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



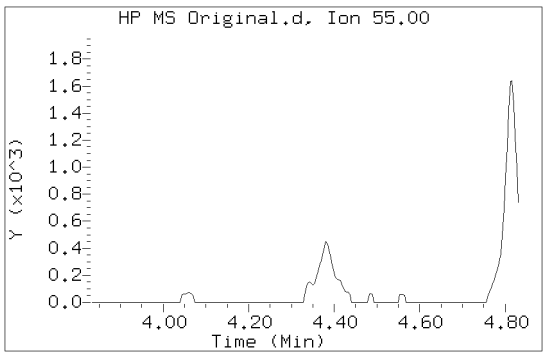
AFTER

MASS
52
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



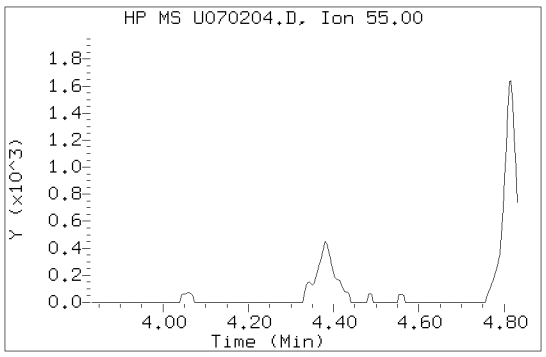
BEFORE

MASS
55
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

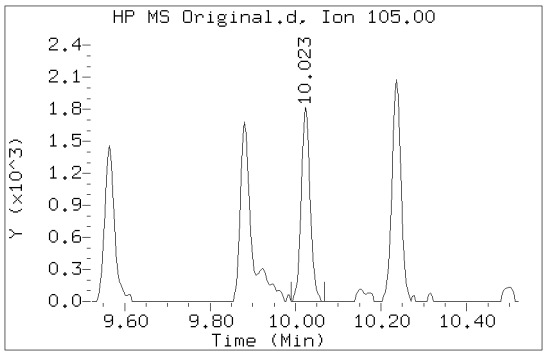


sec-Butylbenzene (135-98-8)

Reason Code:

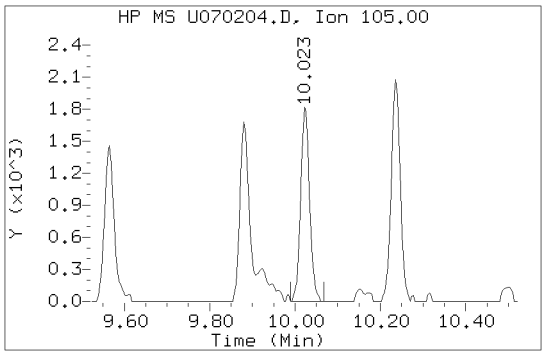
BEFORE

MASS
105
AREA
2721
HEIGHT
1818
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
105
AREA
2721
HEIGHT
1818
10-Jul-2024
09:57
RUCHA
PATEL



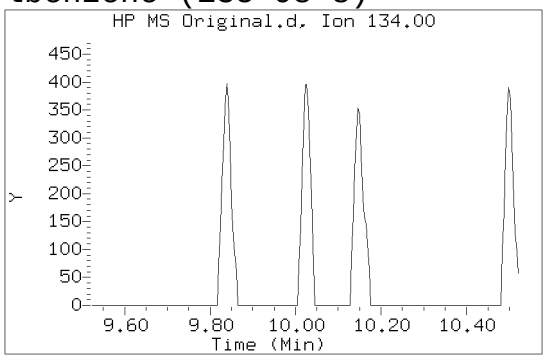
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

sec-Butylbenzene (135-98-8)

Reason Code:

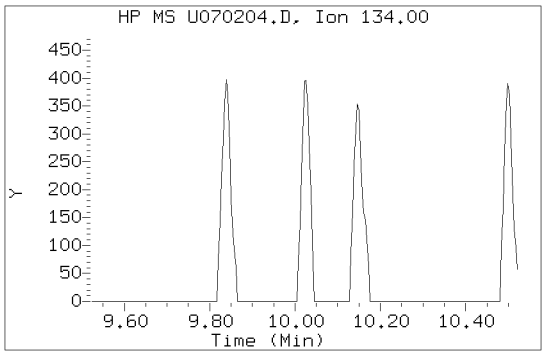
BEFORE

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0
10-Jul-2024
08:51
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PATEL



AFTER

MASS
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AREA
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL

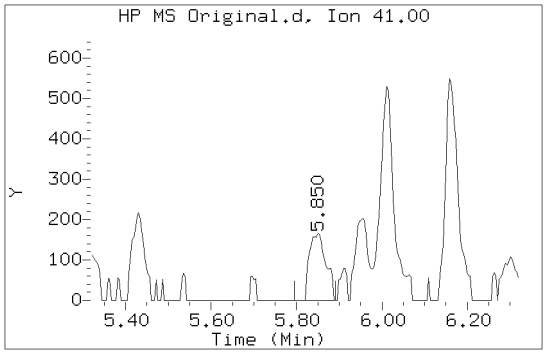


Methyl Methacrylate (80-62-6)

Reason Code:

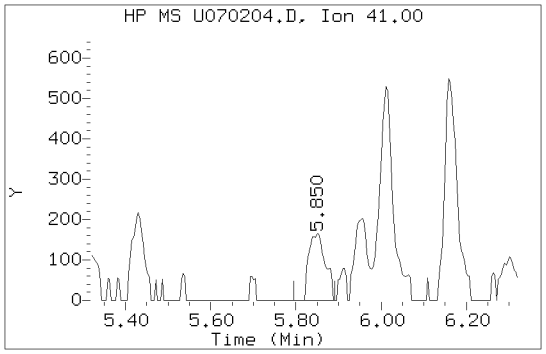
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08:51
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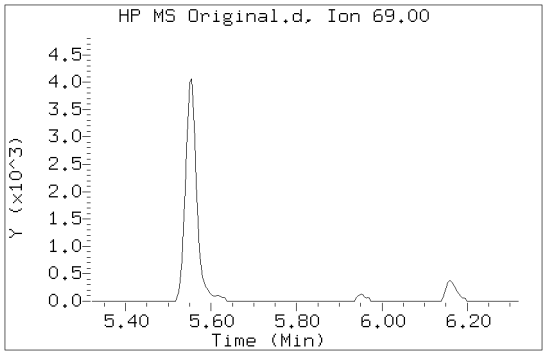
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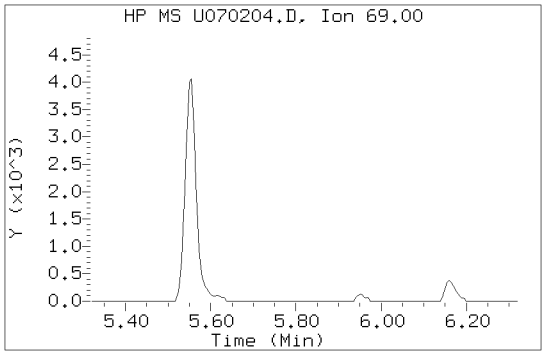
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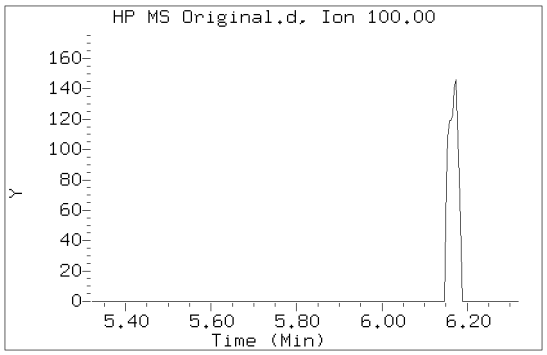
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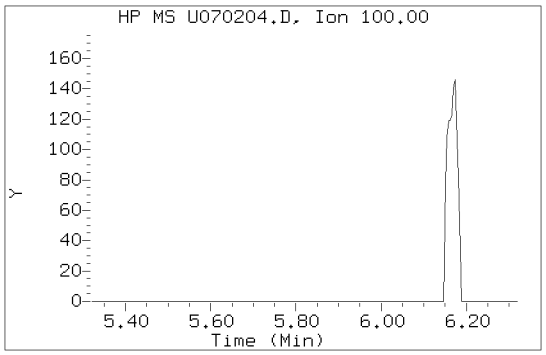
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10-Jul-2024
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AFTER

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10-Jul-2024
09:57
RUCHA
PATEL



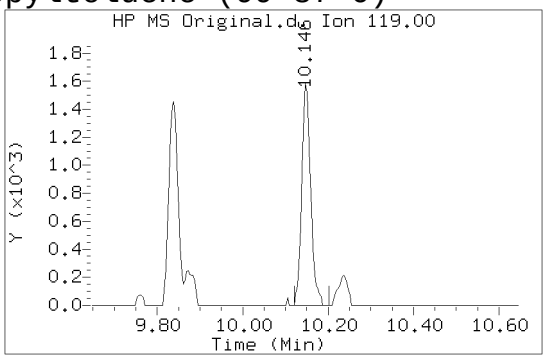
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

p-Isopropyltoluene (99-87-6)

Reason Code:

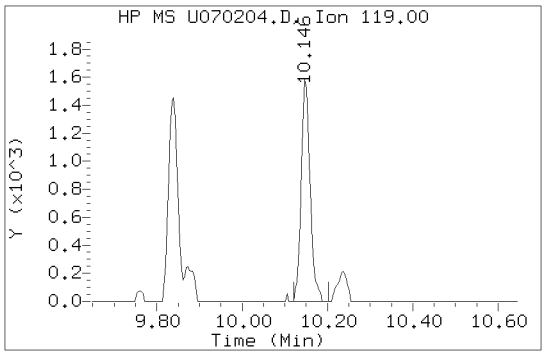
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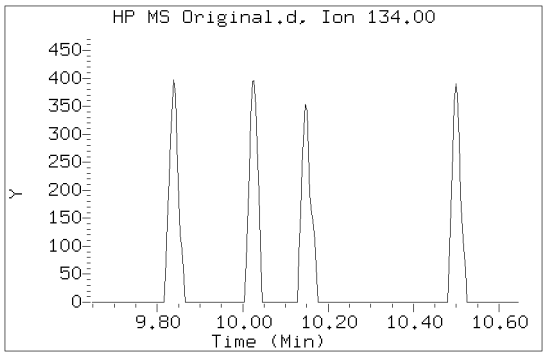
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1582
10-Jul-2024
09:57
RUCHA
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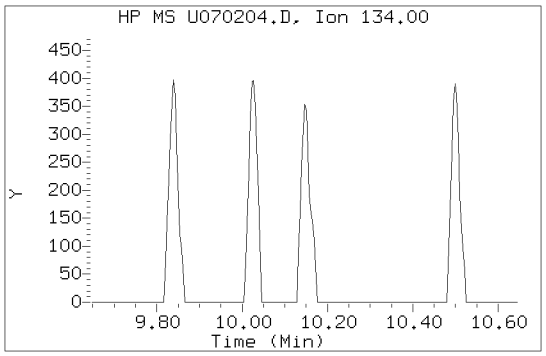
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RUCHA
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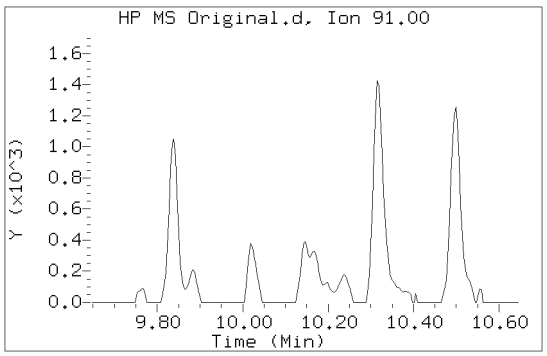
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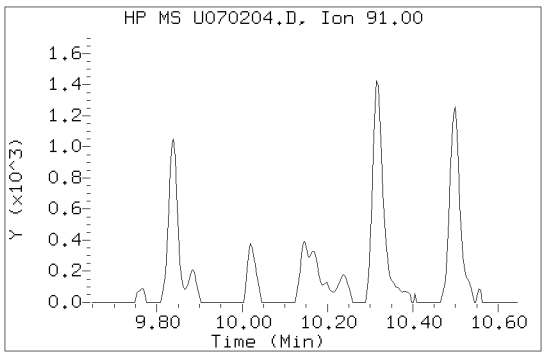
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10-Jul-2024
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AFTER

MASS
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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

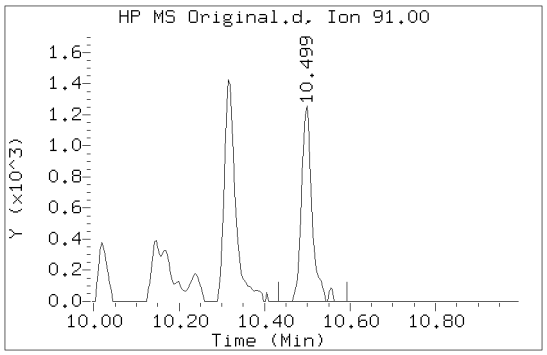


n-Butylbenzene (104-51-8)

Reason Code:

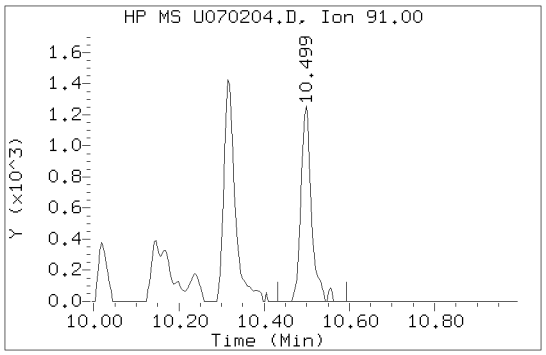
BEFORE

MASS
91
AREA
2215
HEIGHT
1259
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
91
AREA
2215
HEIGHT
1259
10-Jul-2024
09:57
RUCHA
PATEL



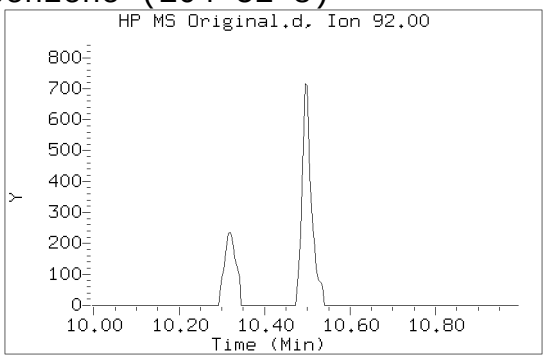
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

n-Butylbenzene (104-51-8)

Reason Code:

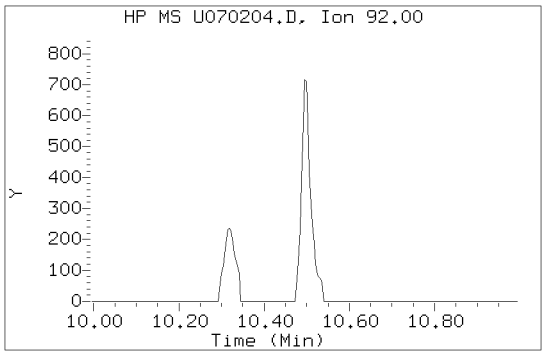
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10-Jul-2024
08:51
RUCHA
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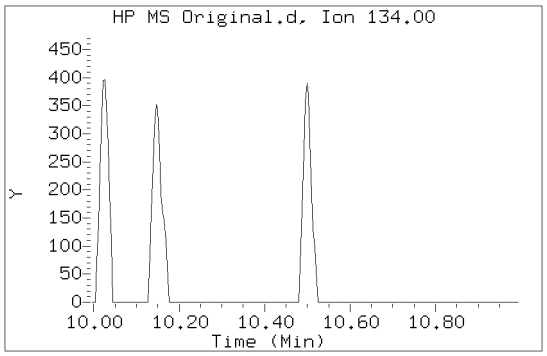
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PATEL



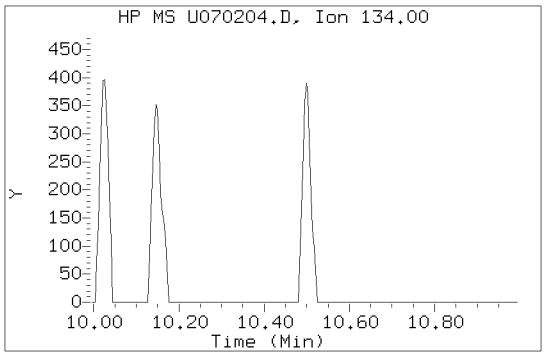
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10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL

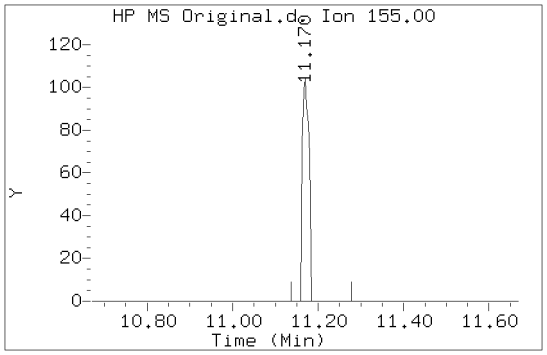


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

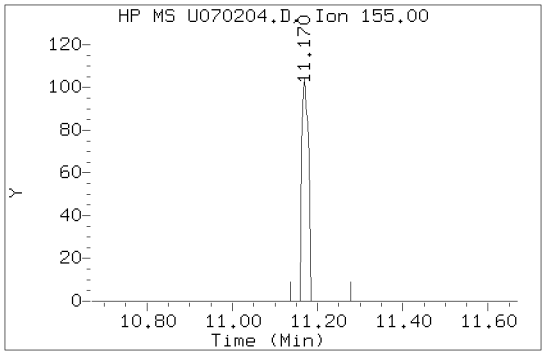
BEFORE

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116
HEIGHT
104
10-Jul-2024
08:51
RUCHA
PATEL



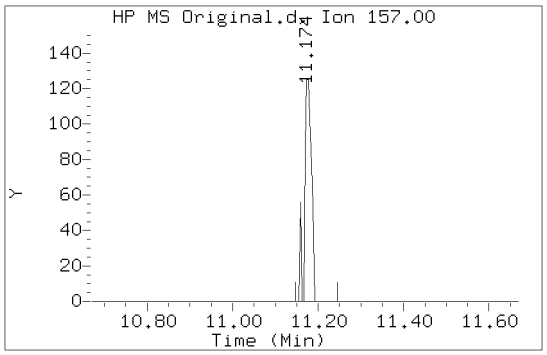
AFTER

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10-Jul-2024
09:57
RUCHA
PATEL



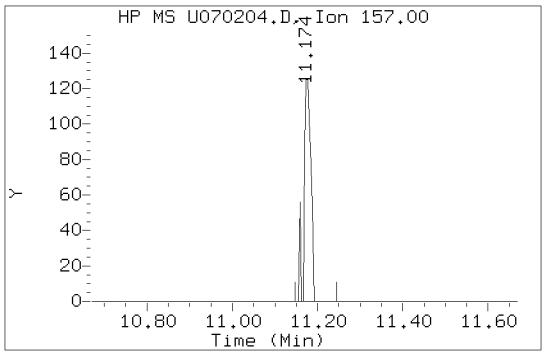
BEFORE

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HEIGHT
125
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
157
AREA
141
HEIGHT
125
10-Jul-2024
09:57
RUCHA
PATEL



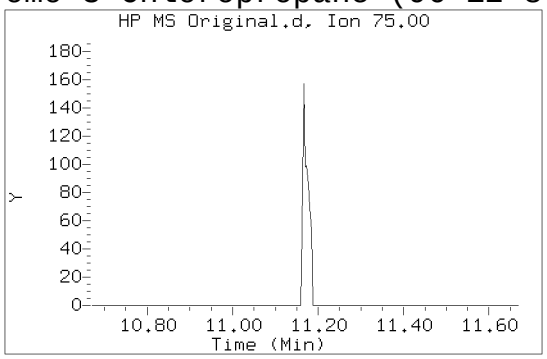
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

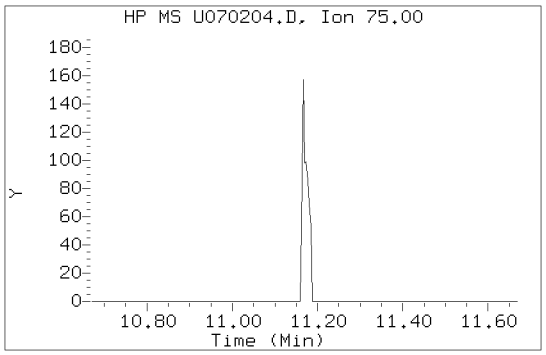
BEFORE

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0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

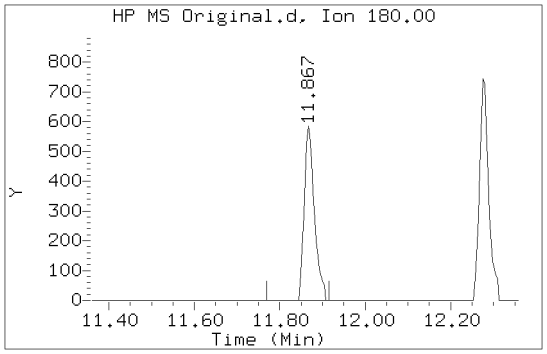


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

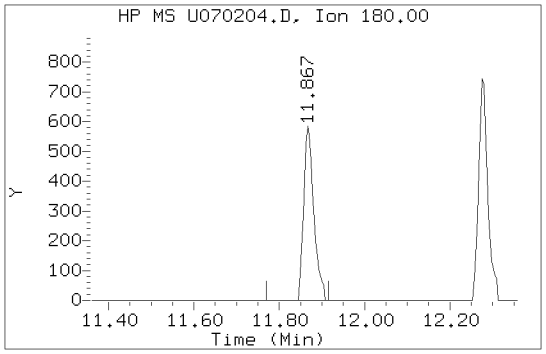
BEFORE

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984
HEIGHT
585
10-Jul-2024
08:51
RUCHA
PATEL



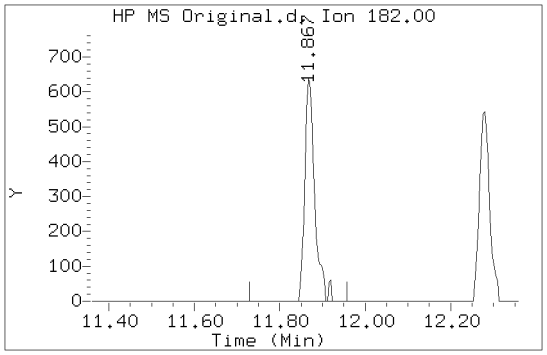
AFTER

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AREA
984
HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



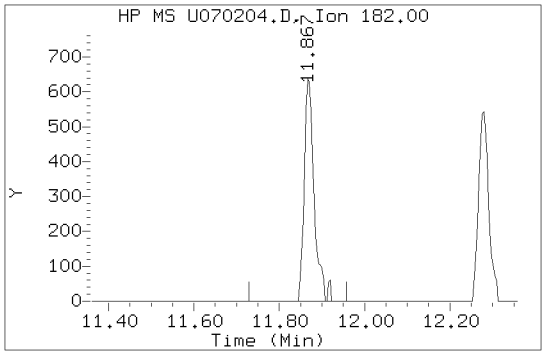
BEFORE

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637
10-Jul-2024
08:51
RUCHA
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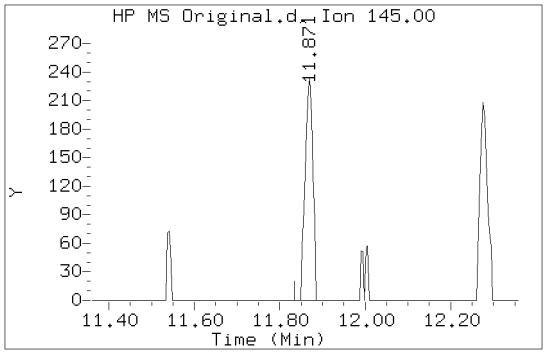
AFTER

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637
10-Jul-2024
09:57
RUCHA
PATEL



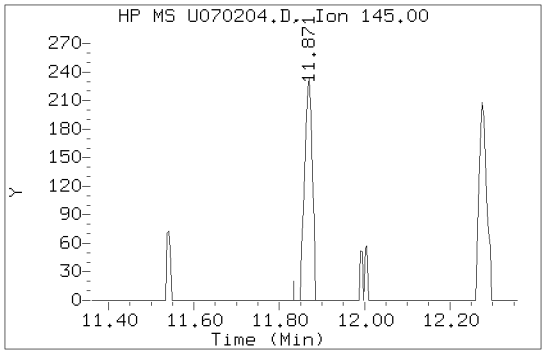
BEFORE

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299
HEIGHT
233
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
145
AREA
299
HEIGHT
233
10-Jul-2024
09:57
RUCHA
PATEL



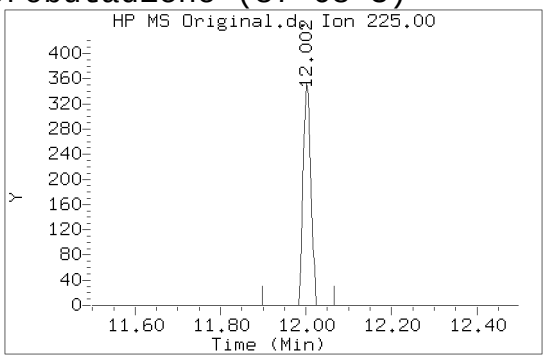
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

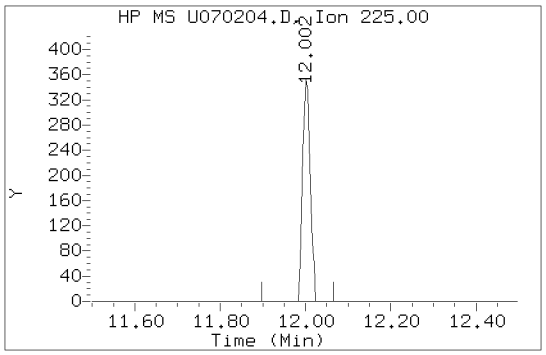
BEFORE

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448
HEIGHT
352
10-Jul-2024
08:51
RUCHA
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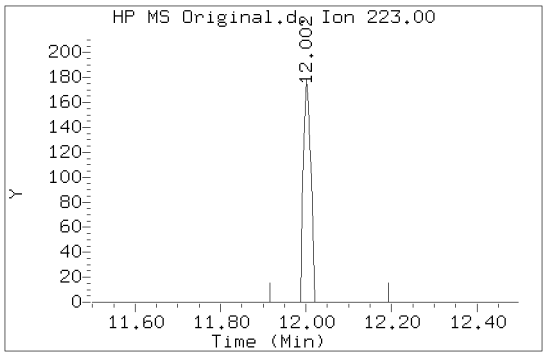
AFTER

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352
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PATEL



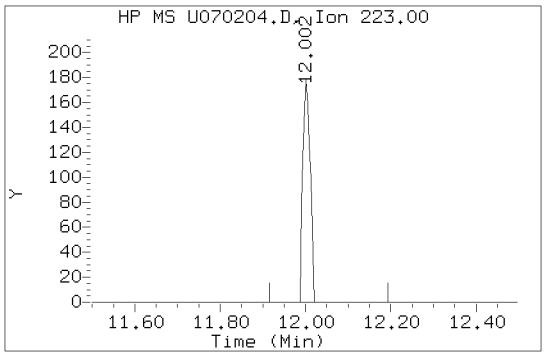
BEFORE

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218
HEIGHT
178
10-Jul-2024
08:51
RUCHA
PATEL



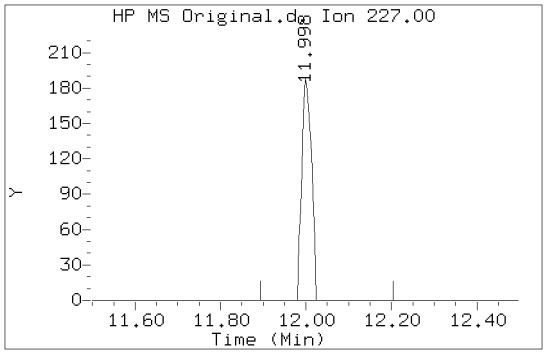
AFTER

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AREA
218
HEIGHT
178
10-Jul-2024
09:57
RUCHA
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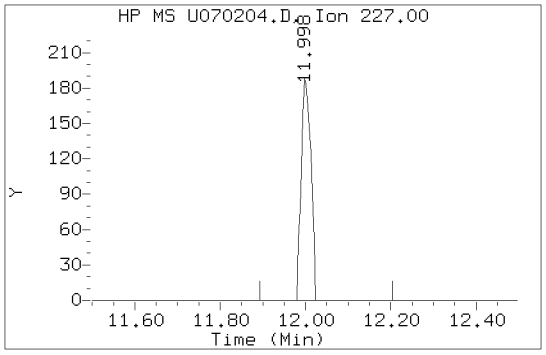
BEFORE

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302
HEIGHT
188
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
227
AREA
302
HEIGHT
188
10-Jul-2024
09:57
RUCHA
PATEL

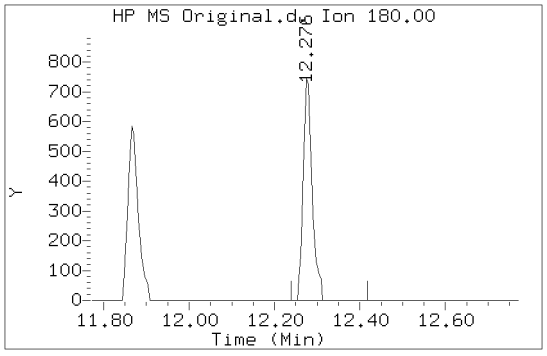


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

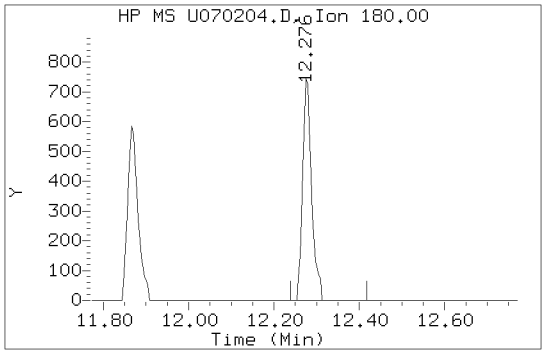
BEFORE

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AREA
1103
HEIGHT
744
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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AREA
1103
HEIGHT
744
10-Jul-2024
09:57
RUCHA
PATEL



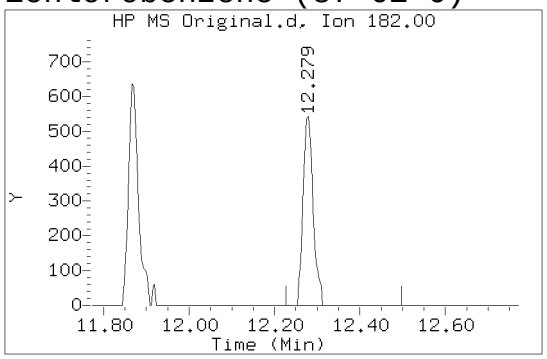
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

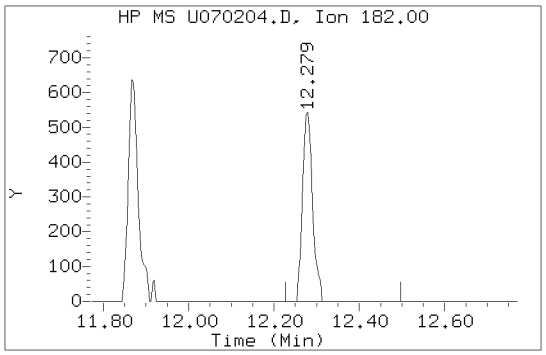
BEFORE

MASS
182
AREA
903
HEIGHT
543
10-Jul-2024
08:51
RUCHA
PATEL



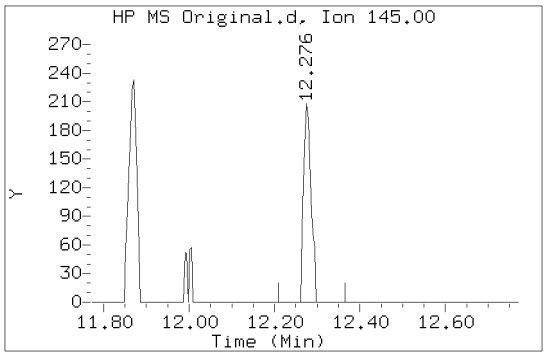
AFTER

MASS
182
AREA
903
HEIGHT
543
10-Jul-2024
09:57
RUCHA
PATEL



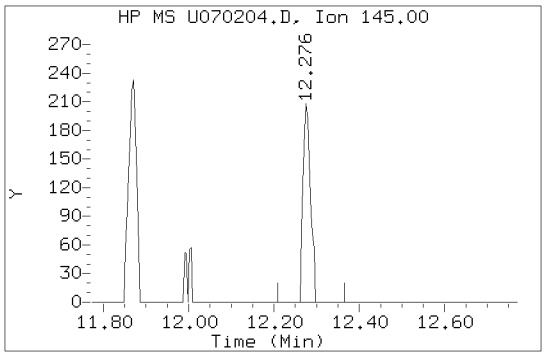
BEFORE

MASS
145
AREA
258
HEIGHT
208
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
145
AREA
258
HEIGHT
208
10-Jul-2024
09:57
RUCHA
PATEL

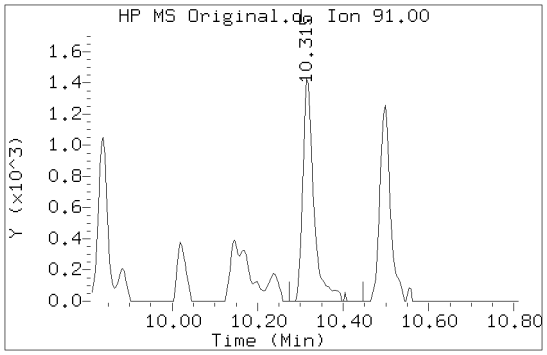


Benzyl Chloride (100-44-7)

Reason Code:

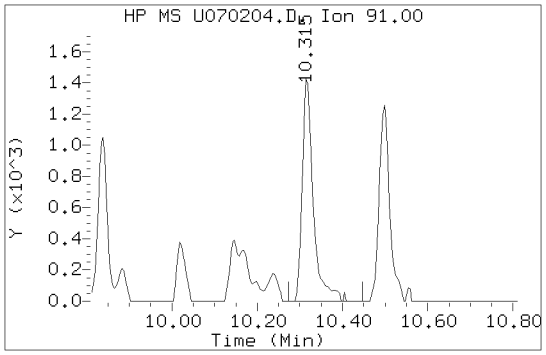
BEFORE

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91
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2633
HEIGHT
1426
10-Jul-2024
08:51
RUCHA
PATEL



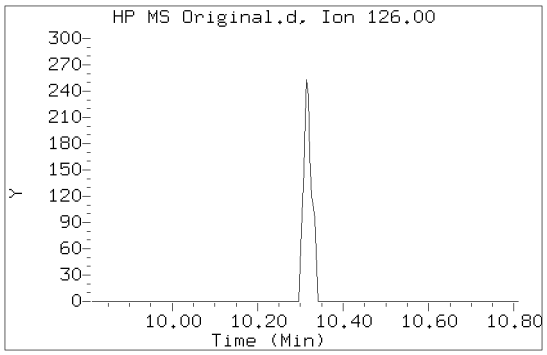
AFTER

MASS
91
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2633
HEIGHT
1426
10-Jul-2024
09:57
RUCHA
PATEL



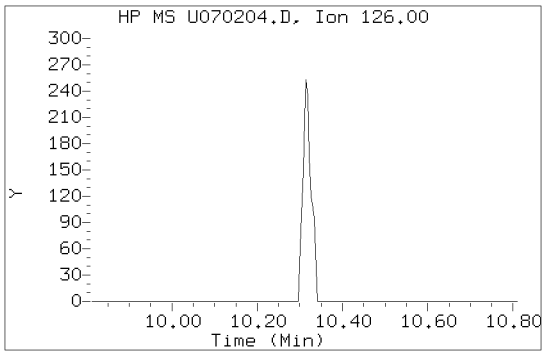
BEFORE

MASS
126
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
126
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



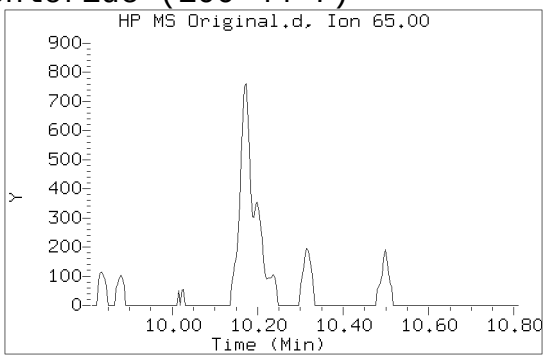
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Benzyl Chloride (100-44-7)

Reason Code:

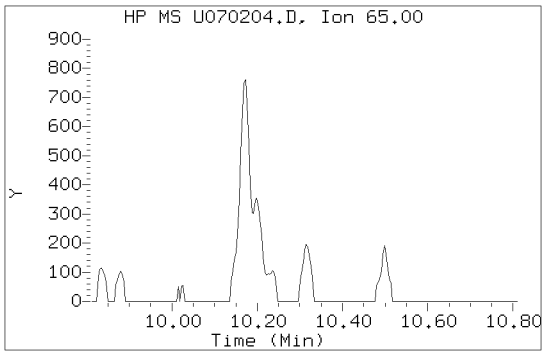
BEFORE

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65
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
65
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

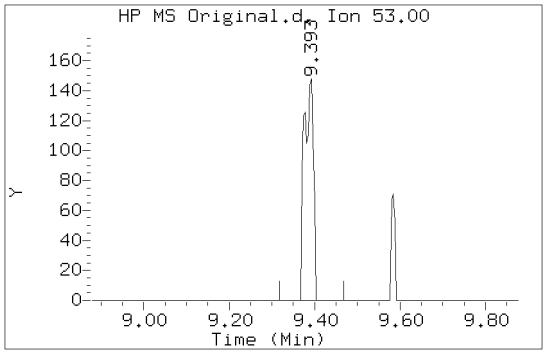


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

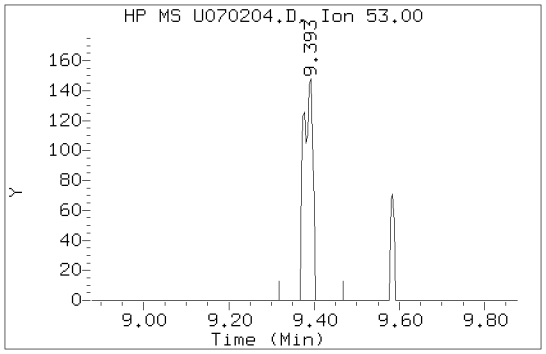
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53
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228
HEIGHT
148
10-Jul-2024
08:51
RUCHA
PATEL



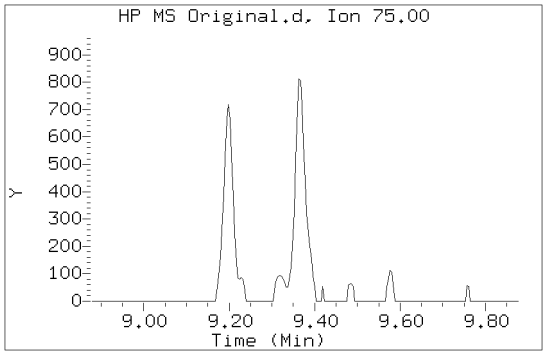
AFTER

MASS
53
AREA
228
HEIGHT
148
10-Jul-2024
09:57
RUCHA
PATEL



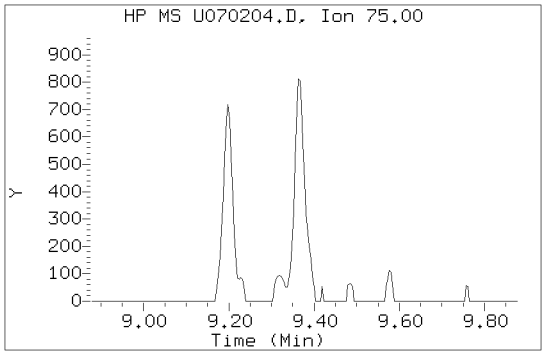
BEFORE

MASS
75
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

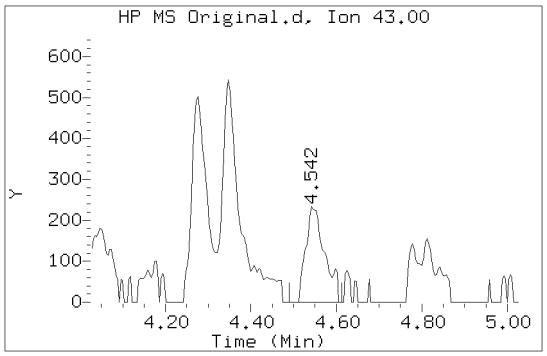


Ethyl Acetate (141-78-6)

Reason Code:

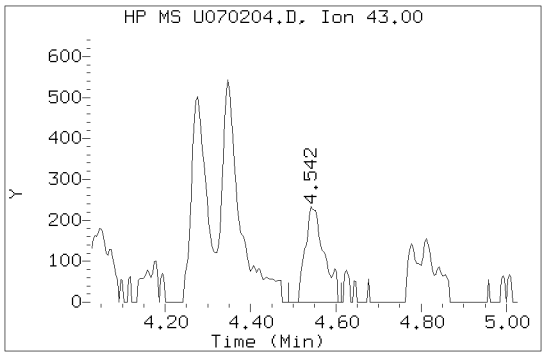
BEFORE

MASS
43
AREA
719
HEIGHT
234
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
43
AREA
719
HEIGHT
234
10-Jul-2024
09:57
RUCHA
PATEL



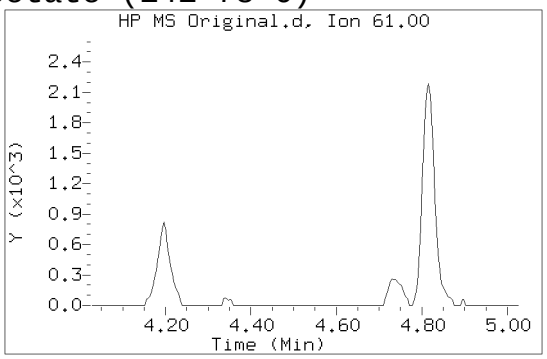
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

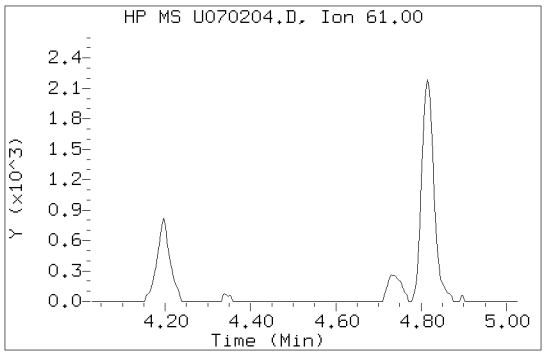
BEFORE

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61
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



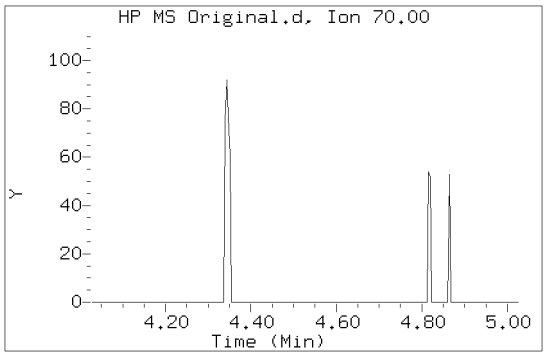
AFTER

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AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



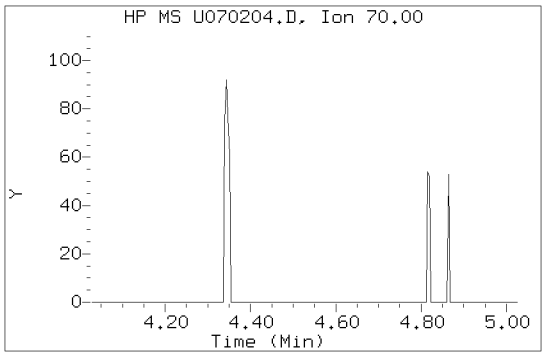
BEFORE

MASS
70
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

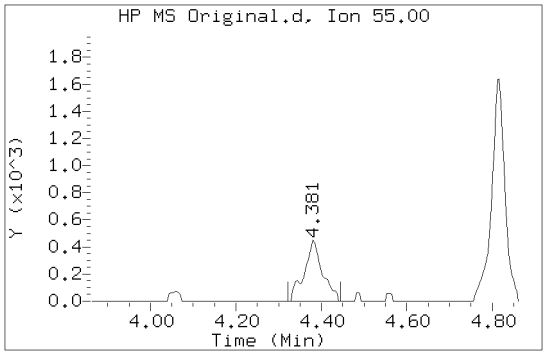


Methyl Acrylate (96-33-3)

Reason Code:

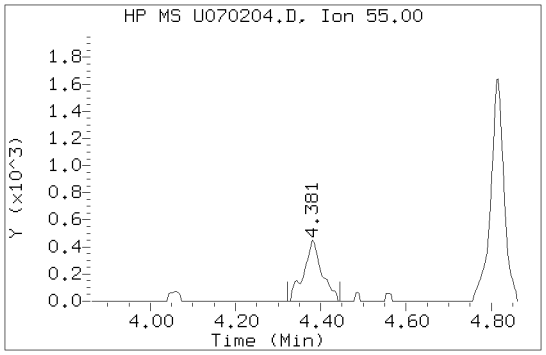
BEFORE

MASS
55
AREA
1339
HEIGHT
452
10-Jul-2024
08:51
RUCHA
PATEL



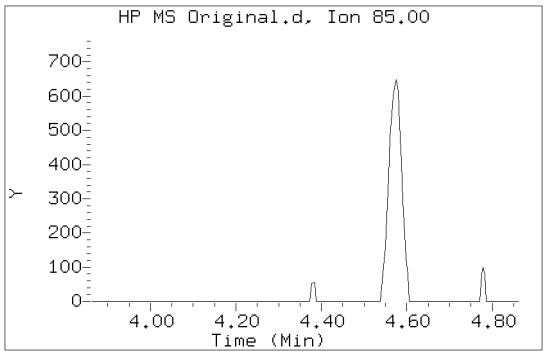
AFTER

MASS
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AREA
1339
HEIGHT
452
10-Jul-2024
09:57
RUCHA
PATEL



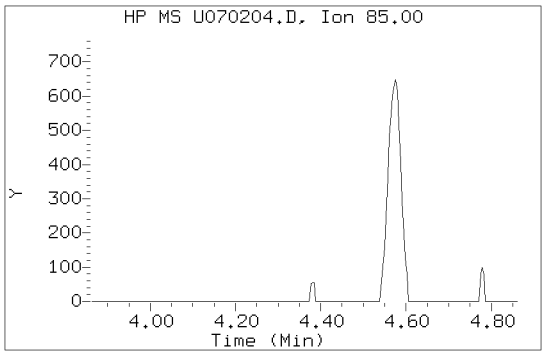
BEFORE

MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

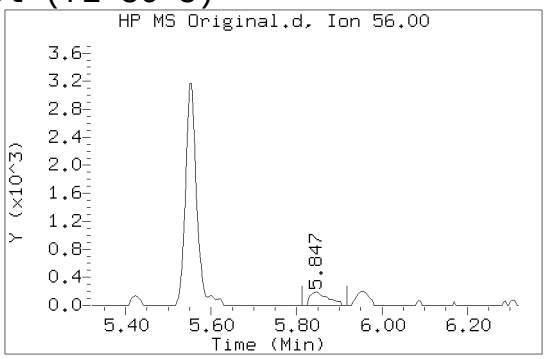


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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

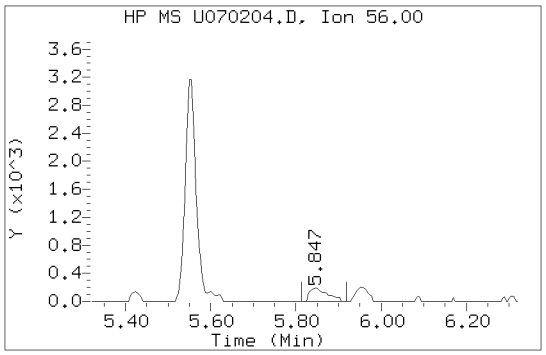
n-Butanol (71-36-3)

Reason Code:

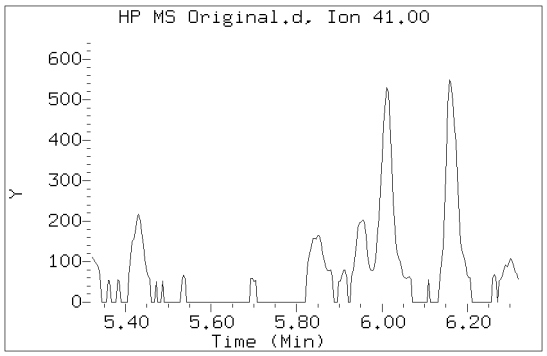
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MASS
56
AREA
550
HEIGHT
190
10-Jul-2024
08:51
RUCHA
PATEL



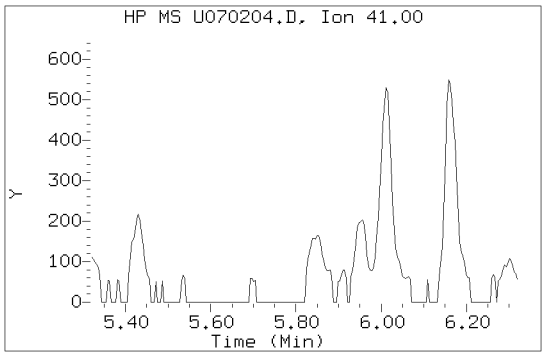
AFTER
MASS
56
AREA
550
HEIGHT
190
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



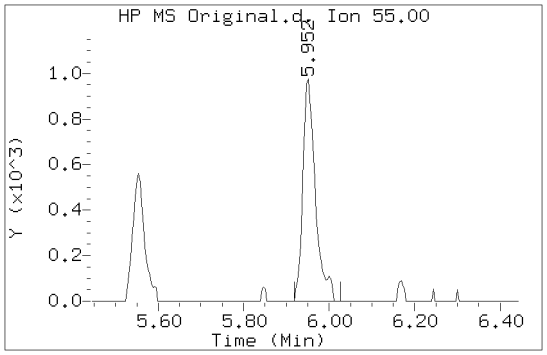
AFTER
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



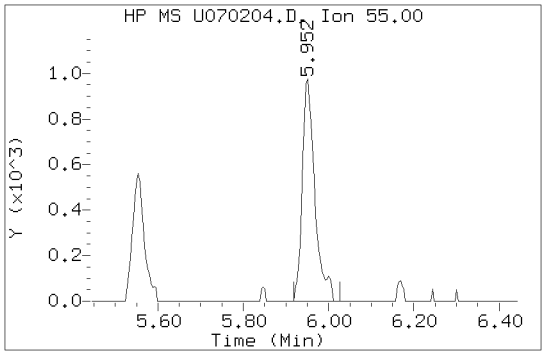
Ethyl Acrylate (140-88-5)

Reason Code:

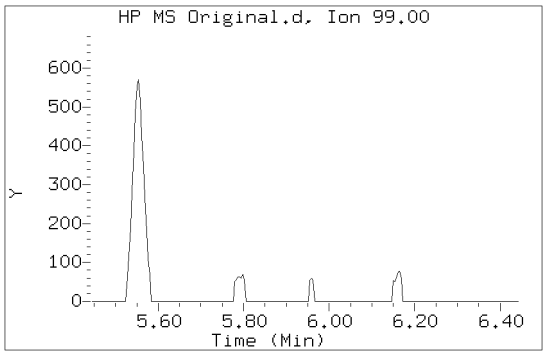
BEFORE
MASS
55
AREA
2020
HEIGHT
976
10-Jul-2024
08:51
RUCHA
PATEL



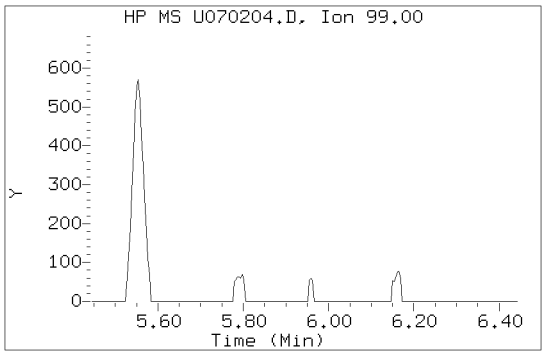
AFTER
MASS
55
AREA
2020
HEIGHT
976
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
99
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
99
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



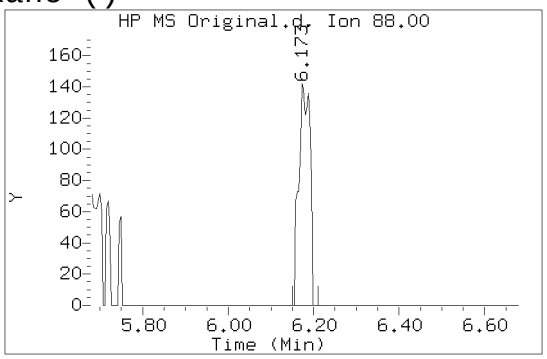
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

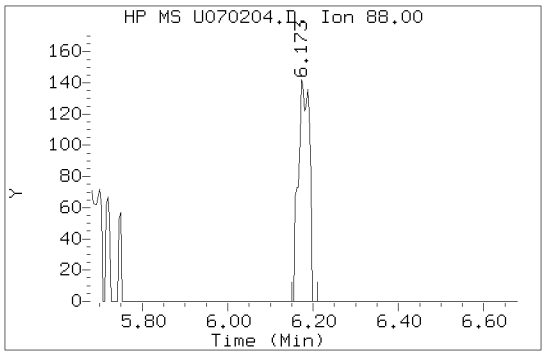
BEFORE

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88
AREA
265
HEIGHT
142
10-Jul-2024
08:51
RUCHA
PATEL



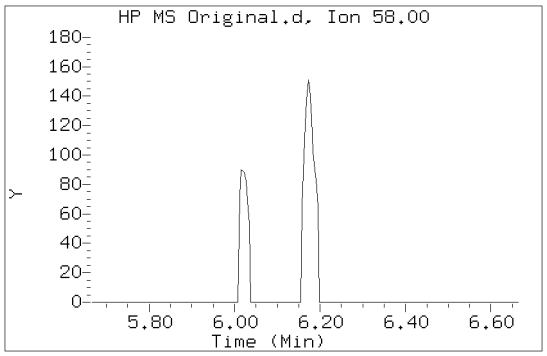
AFTER

MASS
88
AREA
265
HEIGHT
142
10-Jul-2024
09:57
RUCHA
PATEL



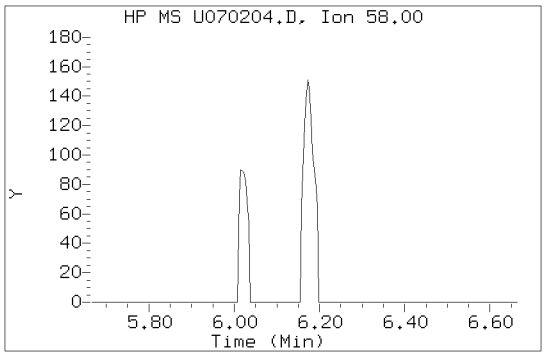
BEFORE

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58
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

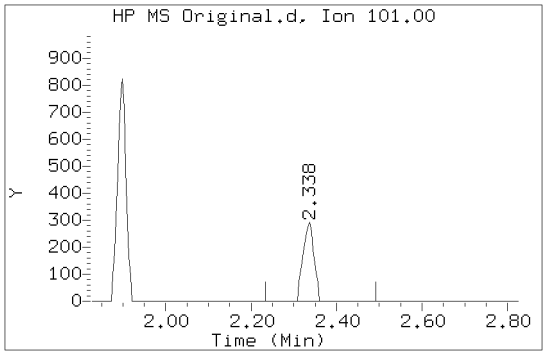


Freon TF (76-13-1)

Reason Code:

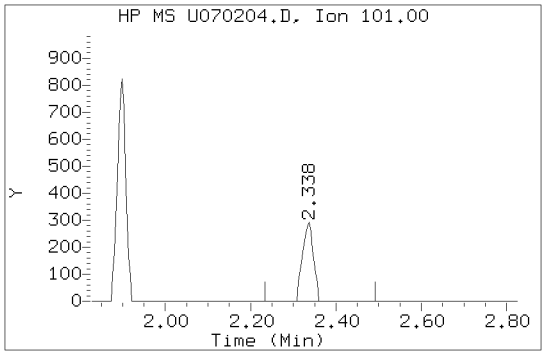
BEFORE

MASS
101
AREA
522
HEIGHT
292
10-Jul-2024
08:51
RUCHA
PATEL



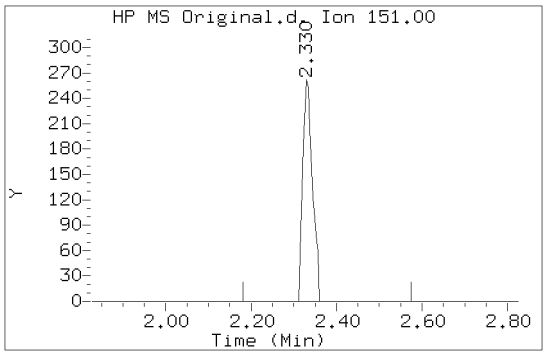
AFTER

MASS
101
AREA
522
HEIGHT
292
10-Jul-2024
09:57
RUCHA
PATEL



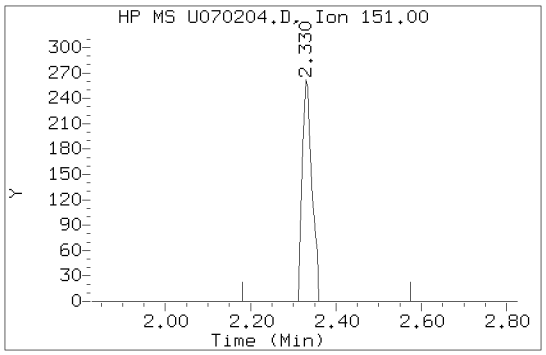
BEFORE

MASS
151
AREA
418
HEIGHT
262
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
151
AREA
418
HEIGHT
262
10-Jul-2024
09:57
RUCHA
PATEL



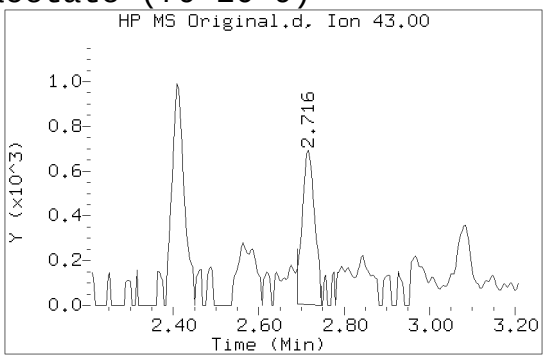
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Methyl acetate (79-20-9)

Reason Code:

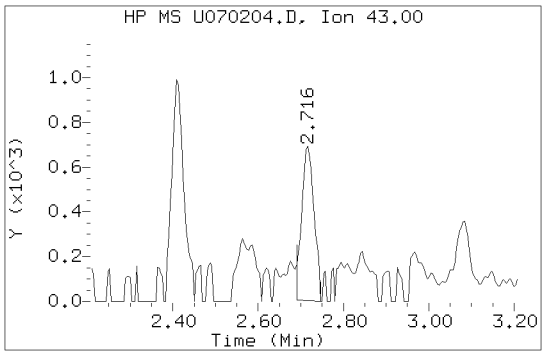
BEFORE

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43
AREA
1417
HEIGHT
690
10-Jul-2024
08:51
RUCHA
PATEL



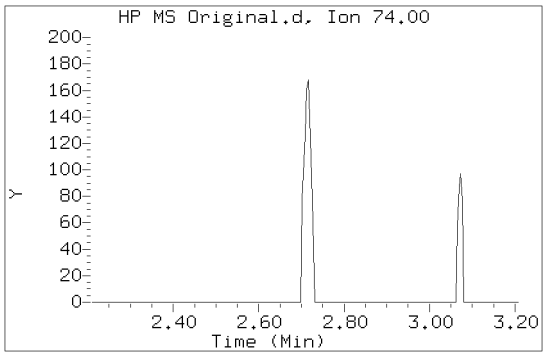
AFTER

MASS
43
AREA
1417
HEIGHT
690
10-Jul-2024
09:57
RUCHA
PATEL



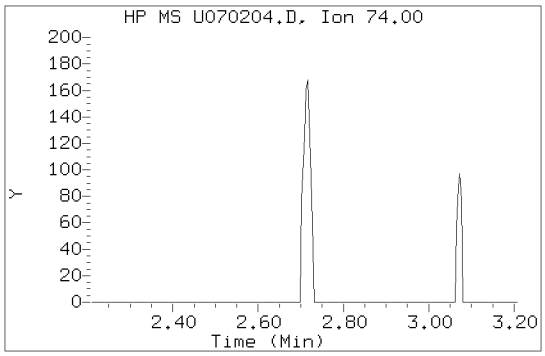
BEFORE

MASS
74
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
74
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

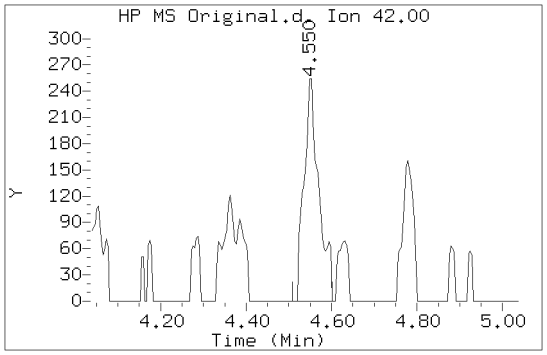


Tetrahydrofuran (109-99-9)

Reason Code:

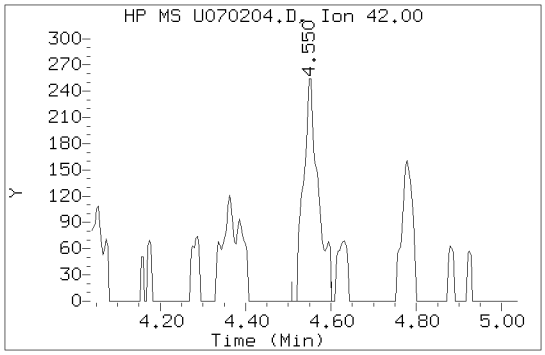
BEFORE

MASS
42
AREA
620
HEIGHT
254
10-Jul-2024
08:51
RUCHA
PATEL



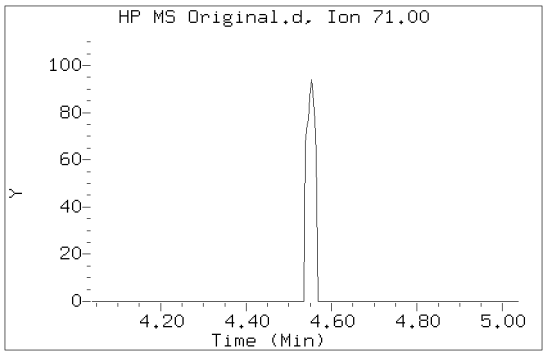
AFTER

MASS
42
AREA
620
HEIGHT
254
10-Jul-2024
09:57
RUCHA
PATEL



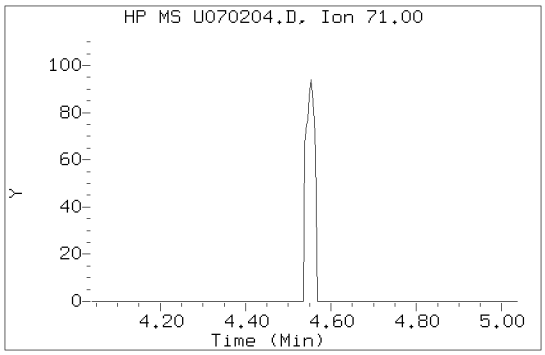
BEFORE

MASS
71
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
71
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



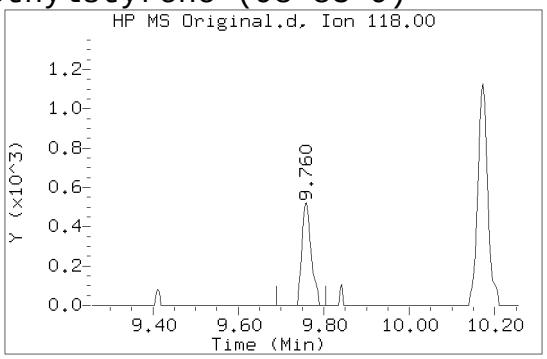
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

alpha-Methylstyrene (98-83-9)

Reason Code:

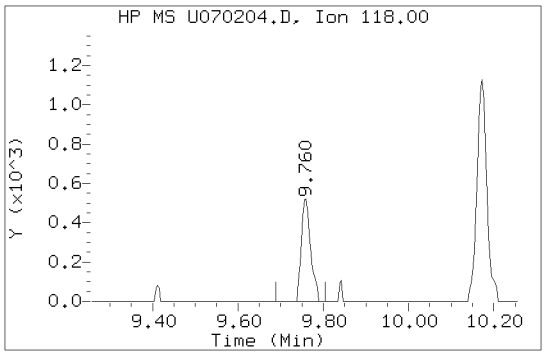
BEFORE

MASS
118
AREA
806
HEIGHT
522
10-Jul-2024
08:51
RUCHA
PATEL



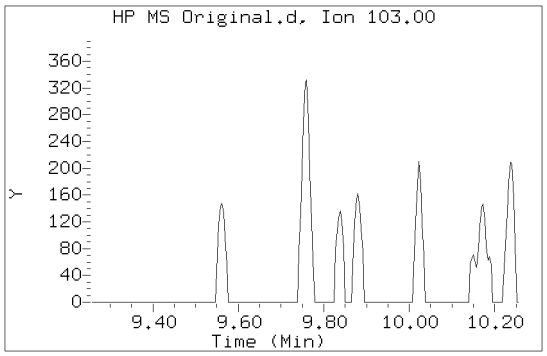
AFTER

MASS
118
AREA
806
HEIGHT
522
10-Jul-2024
09:57
RUCHA
PATEL



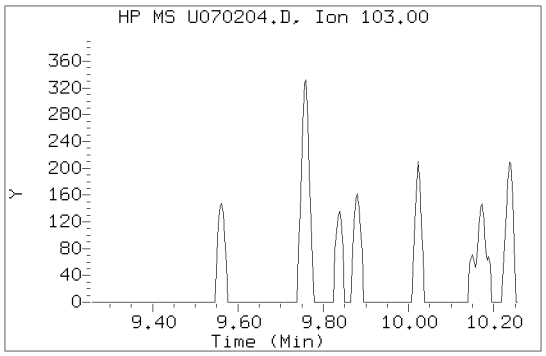
BEFORE

MASS
103
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
103
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

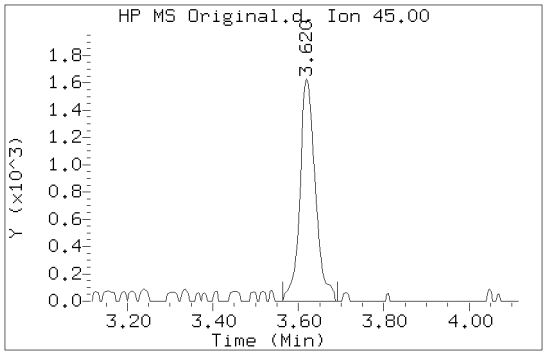


Diisopropyl ether (108-20-3)

Reason Code:

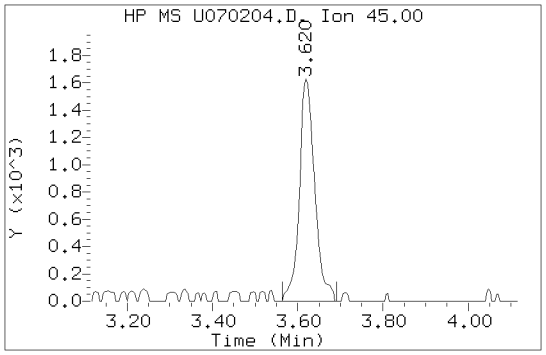
BEFORE

MASS
45
AREA
4135
HEIGHT
1629
10-Jul-2024
08:51
RUCHA
PATEL



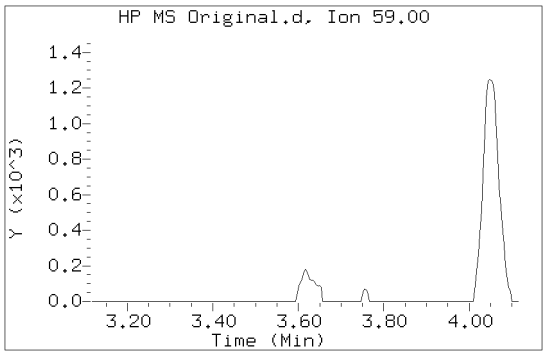
AFTER

MASS
45
AREA
4135
HEIGHT
1629
10-Jul-2024
09:57
RUCHA
PATEL



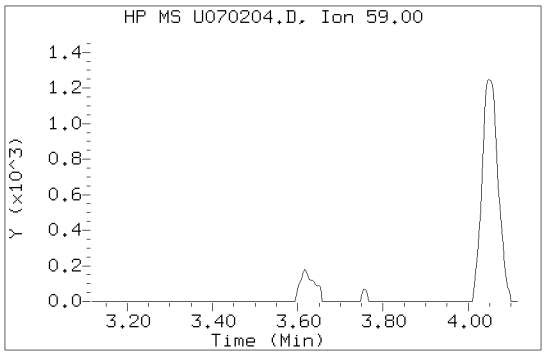
BEFORE

MASS
59
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
59
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



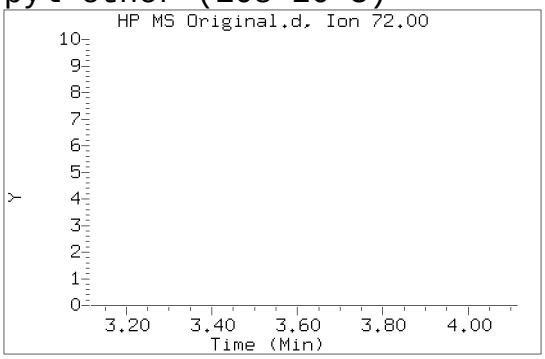
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Diisopropyl ether (108-20-3)

Reason Code:

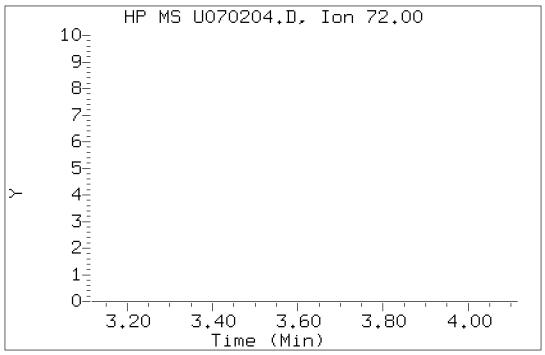
BEFORE

MASS
72
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
72
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

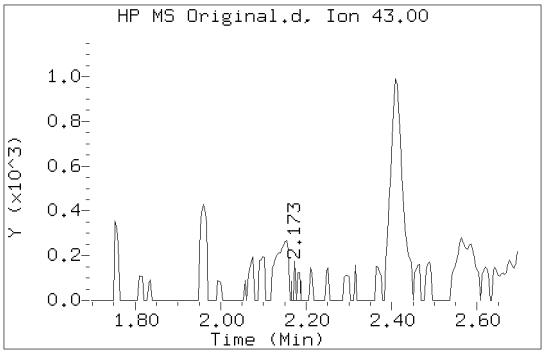


Propylene oxide ()

Reason Code:

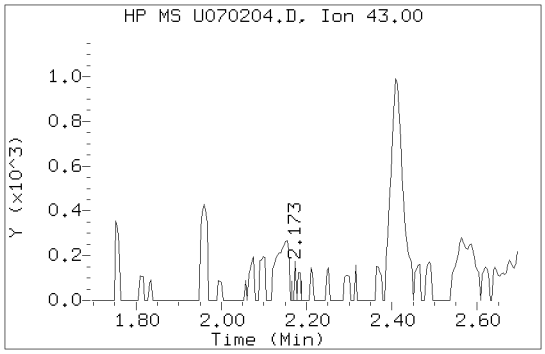
BEFORE

MASS
43
AREA
94
HEIGHT
175
10-Jul-2024
08:51
RUCHA
PATEL



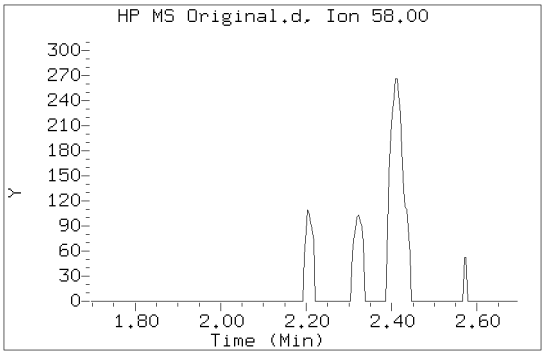
AFTER

MASS
43
AREA
94
HEIGHT
175
10-Jul-2024
09:57
RUCHA
PATEL



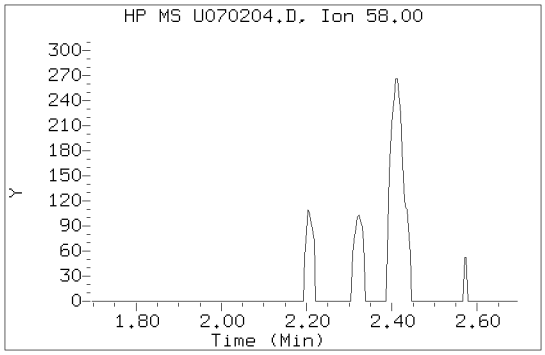
BEFORE

MASS
58
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

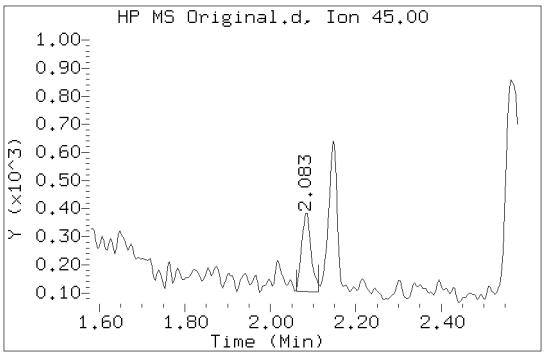


Ethanol (64-17-5)

Reason Code:

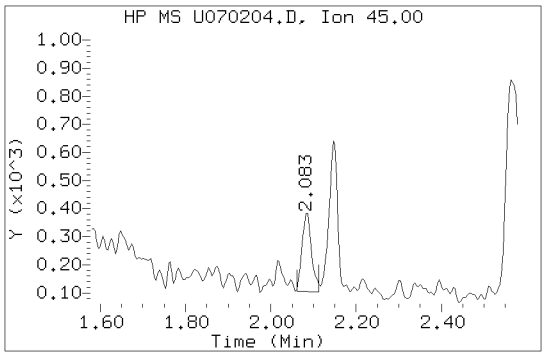
BEFORE

MASS
45
AREA
443
HEIGHT
277
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
45
AREA
443
HEIGHT
277
10-Jul-2024
09:57
RUCHA
PATEL

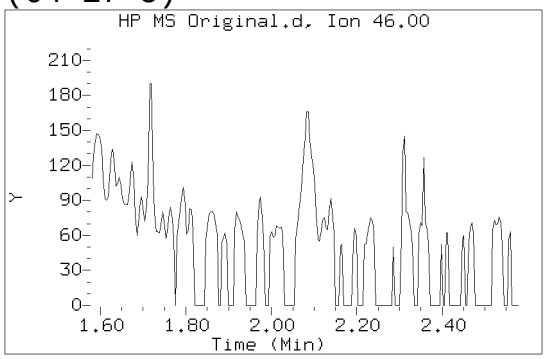


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

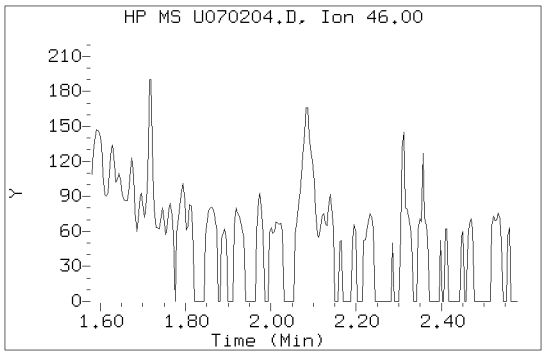
Ethanol (64-17-5)

Reason Code:

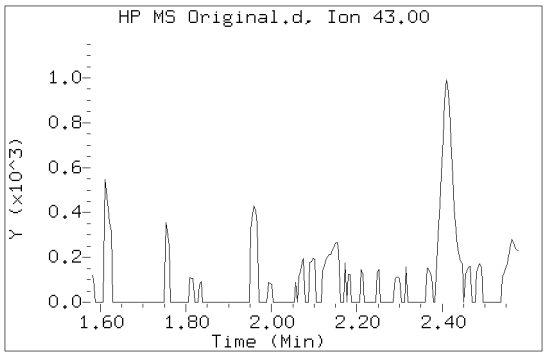
BEFORE
MASS
46
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



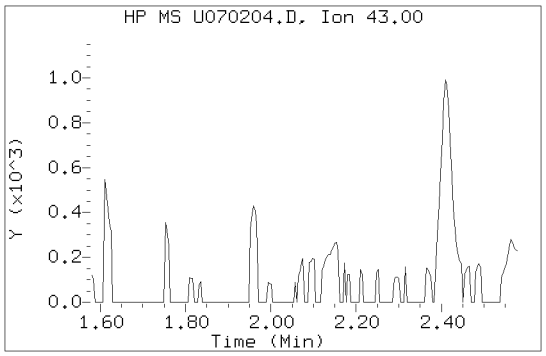
AFTER
MASS
46
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
43
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



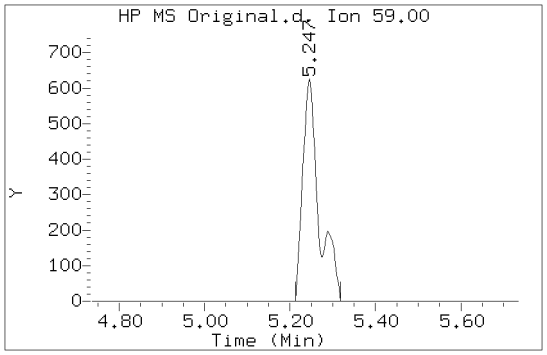
AFTER
MASS
43
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



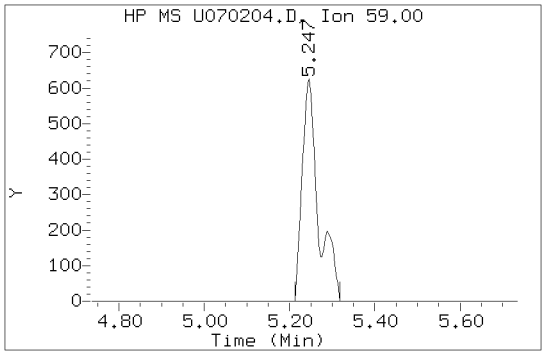
tert-Butyl formate (762-75-4)

Reason Code:

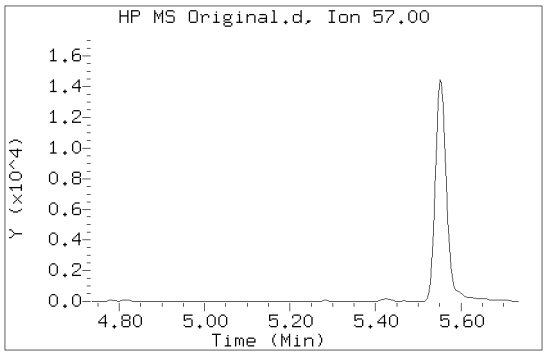
BEFORE
MASS
59
AREA
1663
HEIGHT
626
10-Jul-2024
08:51
RUCHA
PATEL



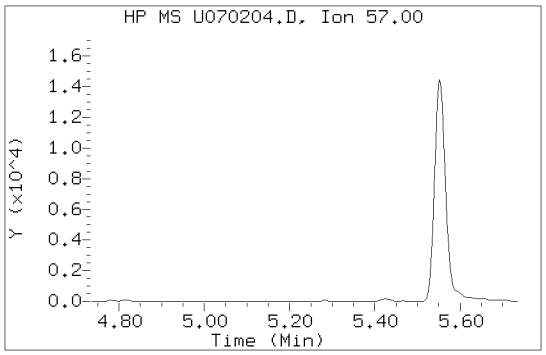
AFTER
MASS
59
AREA
1663
HEIGHT
626
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
57
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
57
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



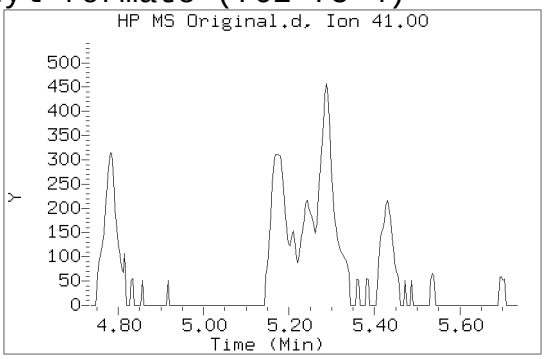
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

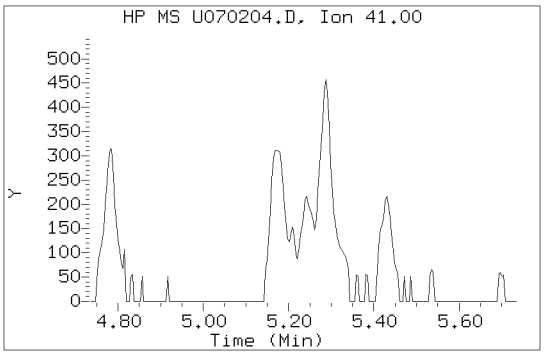
BEFORE

MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

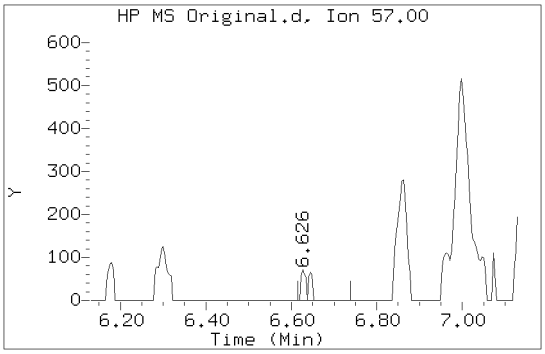


Epichlorohydrin (106-89-8)

Reason Code:

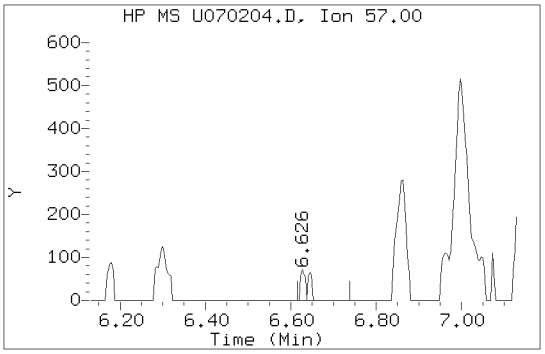
BEFORE

MASS
57
AREA
94
HEIGHT
71
10-Jul-2024
08:51
RUCHA
PATEL



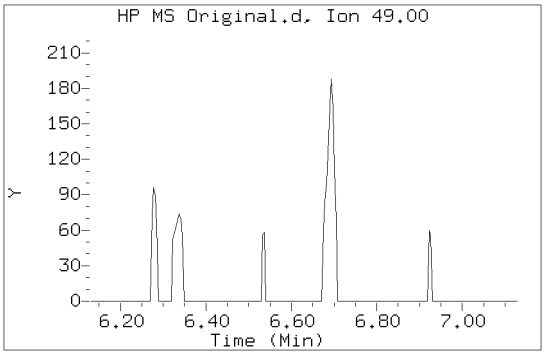
AFTER

MASS
57
AREA
94
HEIGHT
71
10-Jul-2024
09:57
RUCHA
PATEL



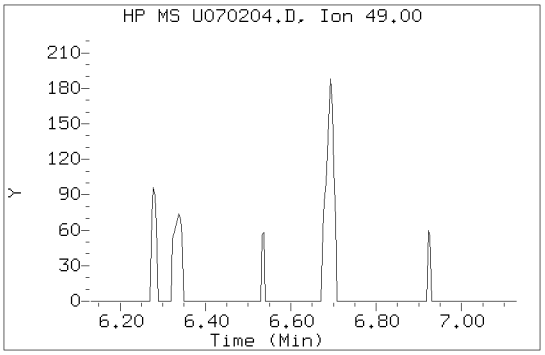
BEFORE

MASS
49
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

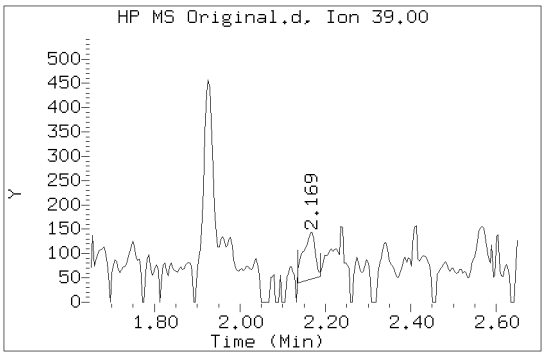


Isoprene (78-79-5)

Reason Code:

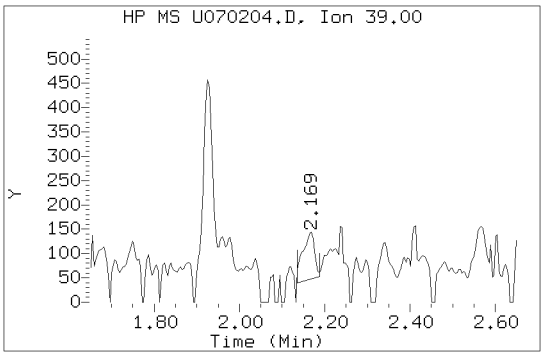
BEFORE

MASS
39
AREA
191
HEIGHT
95
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
39
AREA
191
HEIGHT
95
10-Jul-2024
09:57
RUCHA
PATEL



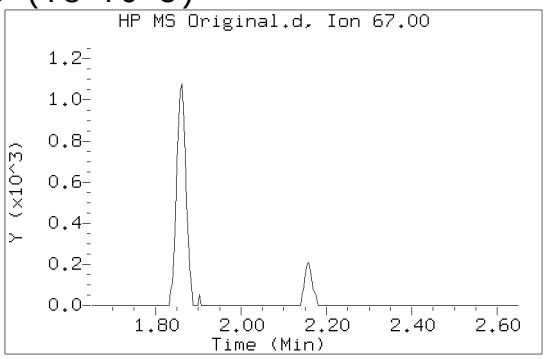
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Isoprene (78-79-5)

Reason Code:

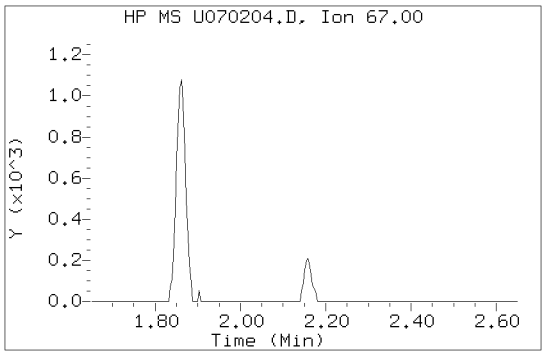
BEFORE

MASS
67
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



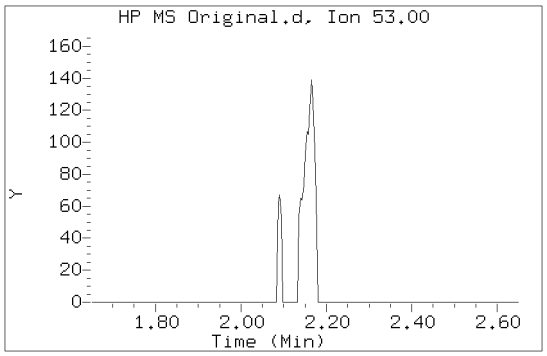
AFTER

MASS
67
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



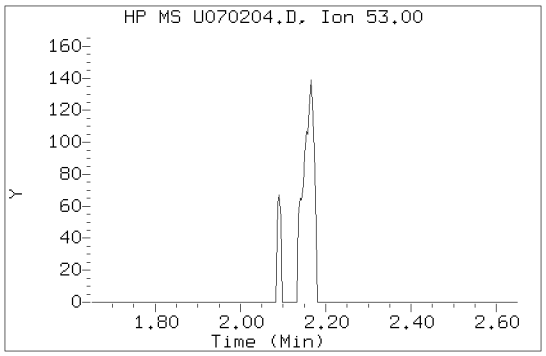
BEFORE

MASS
53
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0
HEIGHT
0
10-Jul-2024
08:51
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PATEL



AFTER

MASS
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AREA
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL

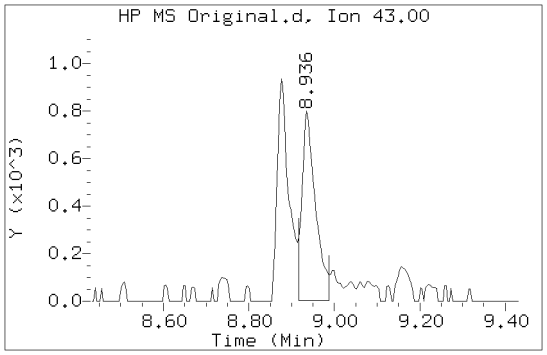


n-Amyl acetate (628-63-7)

Reason Code:

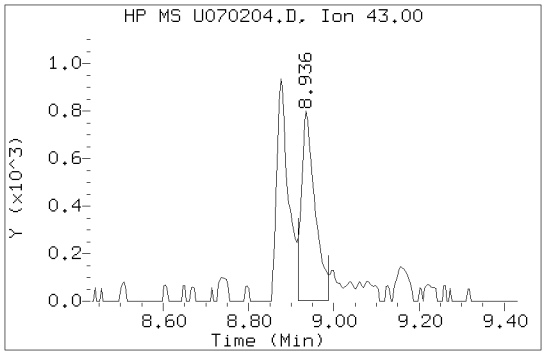
BEFORE

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HEIGHT
796
10-Jul-2024
08:51
RUCHA
PATEL



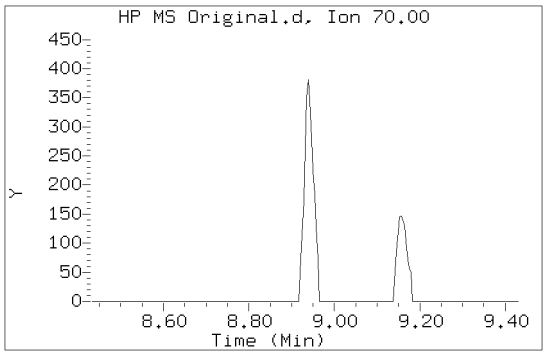
AFTER

MASS
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AREA
1792
HEIGHT
796
10-Jul-2024
09:57
RUCHA
PATEL



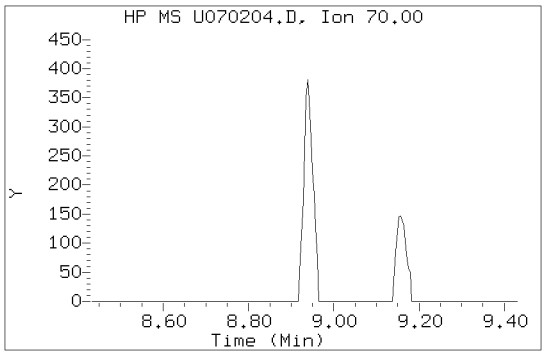
BEFORE

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70
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0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



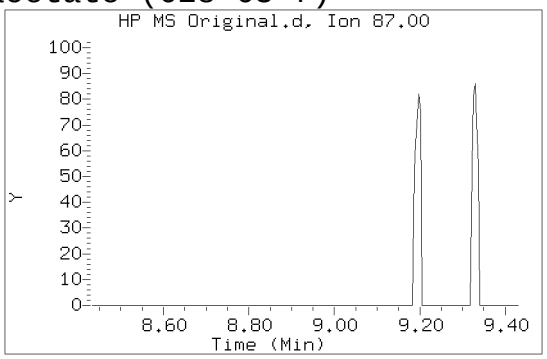
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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

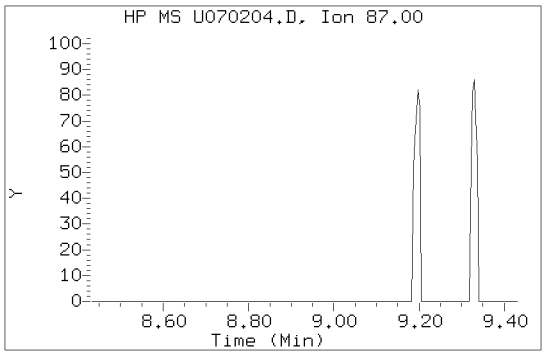
BEFORE

MASS
87
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

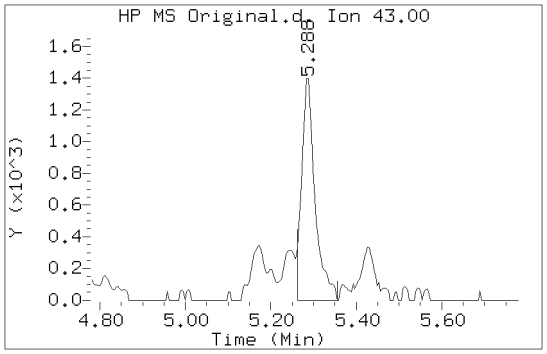


Isopropyl acetate (108-21-4)

Reason Code:

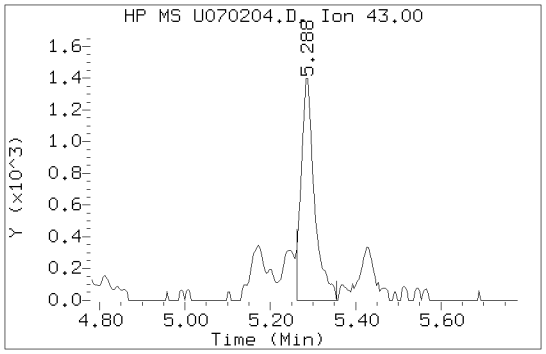
BEFORE

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AREA
3096
HEIGHT
1397
10-Jul-2024
08:51
RUCHA
PATEL



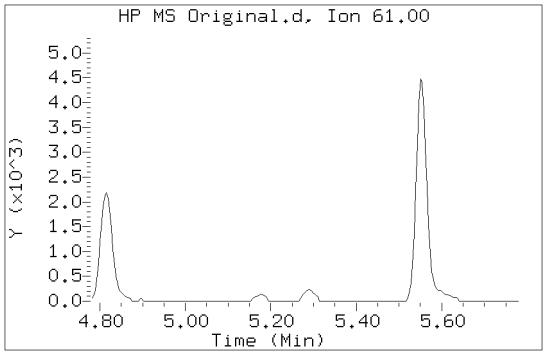
AFTER

MASS
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AREA
3096
HEIGHT
1397
10-Jul-2024
09:57
RUCHA
PATEL



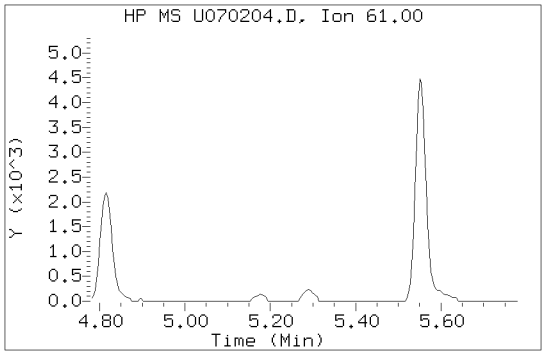
BEFORE

MASS
61
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

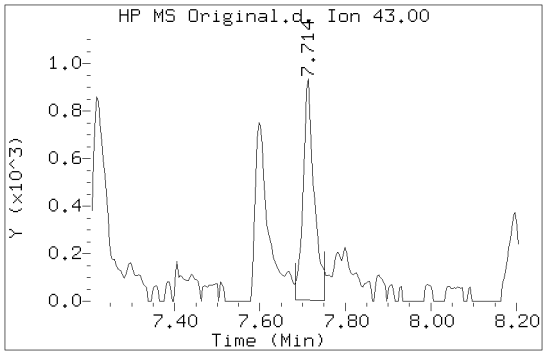


n-Butyl acetate (123-86-4)

Reason Code:

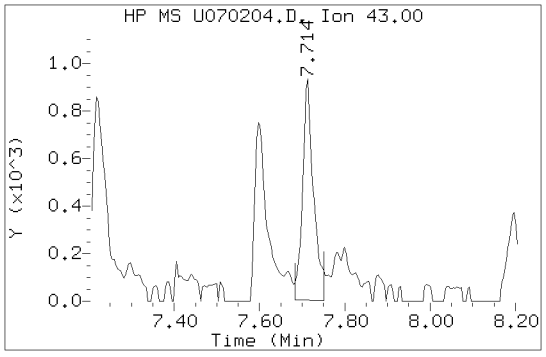
BEFORE

MASS
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AREA
1668
HEIGHT
930
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
43
AREA
1668
HEIGHT
930
10-Jul-2024
09:57
RUCHA
PATEL



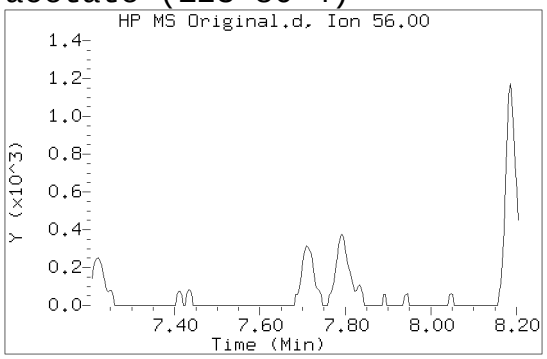
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

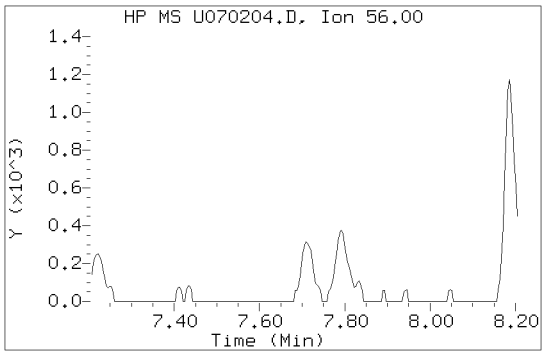
BEFORE

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AREA
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10-Jul-2024
08:51
RUCHA
PATEL



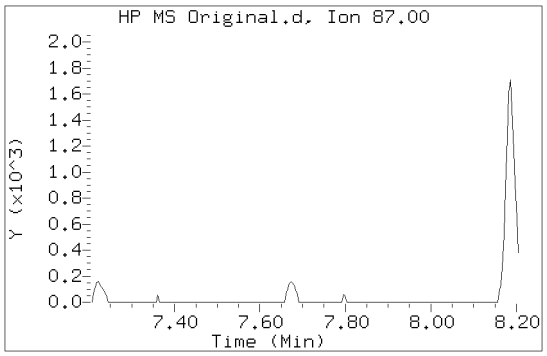
AFTER

MASS
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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



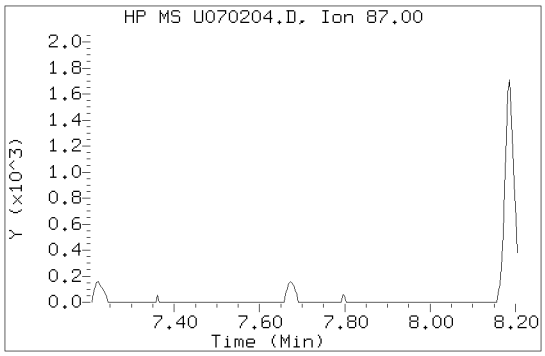
BEFORE

MASS
87
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
87
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

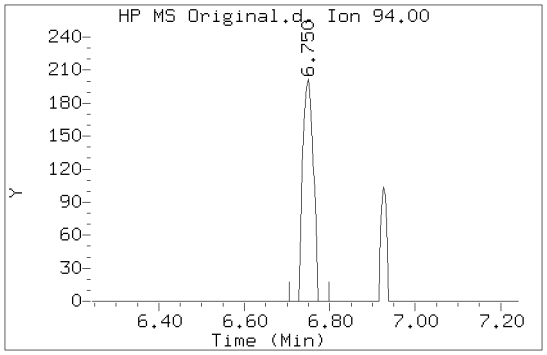


Dimethyl Disulfide (624-92-0)

Reason Code:

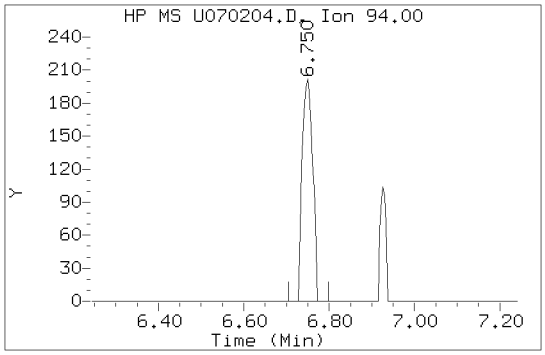
BEFORE

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AREA
353
HEIGHT
202
10-Jul-2024
08:51
RUCHA
PATEL



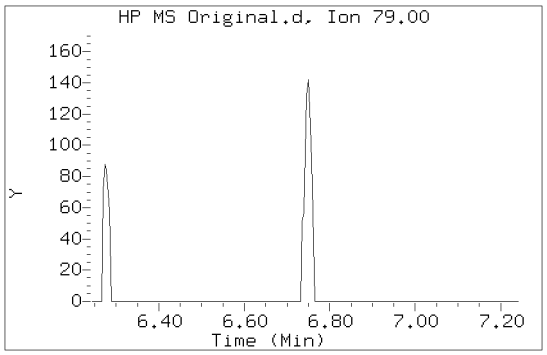
AFTER

MASS
94
AREA
353
HEIGHT
202
10-Jul-2024
09:57
RUCHA
PATEL



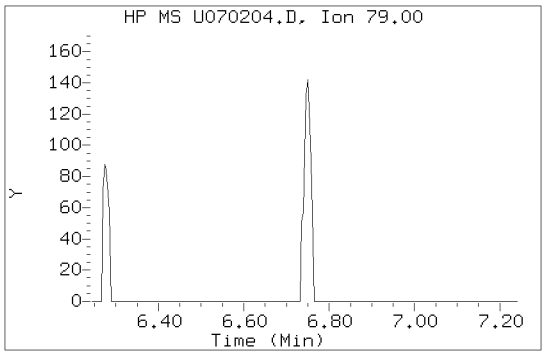
BEFORE

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AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



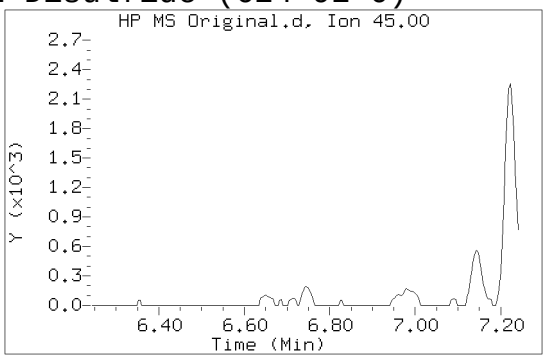
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070204.D
Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

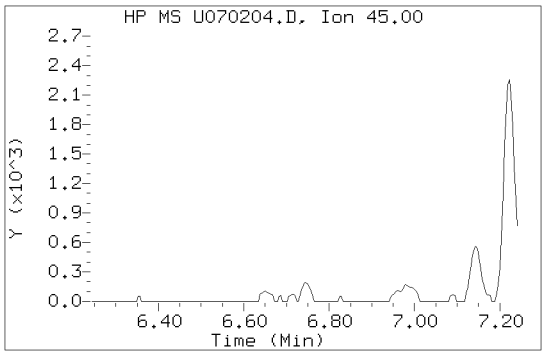
BEFORE

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AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

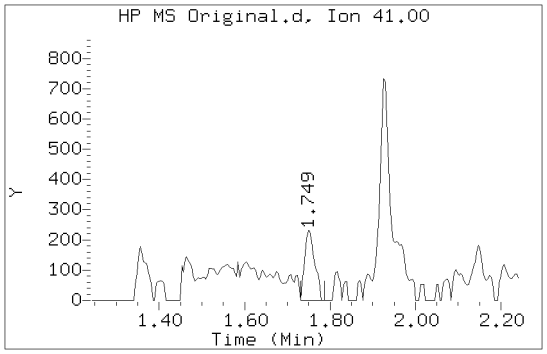


Isobutylene (115-11-7)

Reason Code:

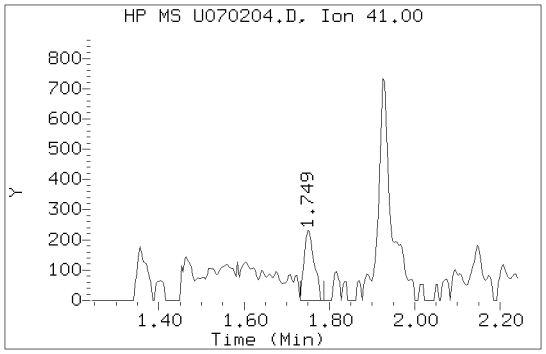
BEFORE

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AREA
383
HEIGHT
232
10-Jul-2024
08:51
RUCHA
PATEL



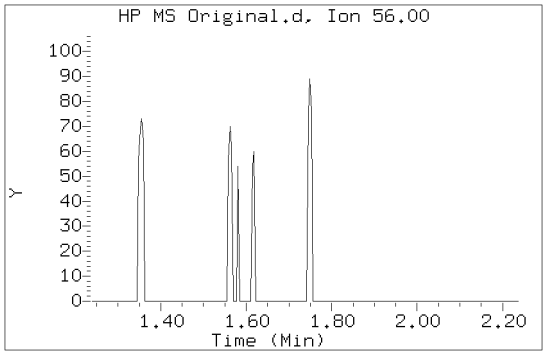
AFTER

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AREA
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



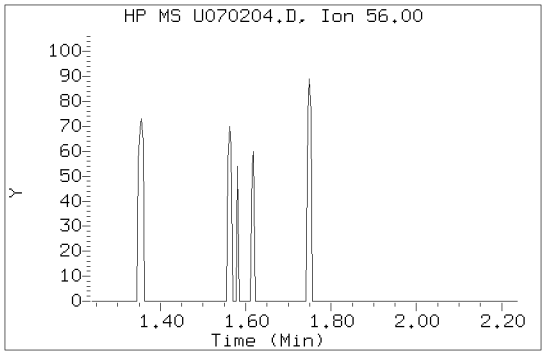
BEFORE

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10-Jul-2024
08:51
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PATEL



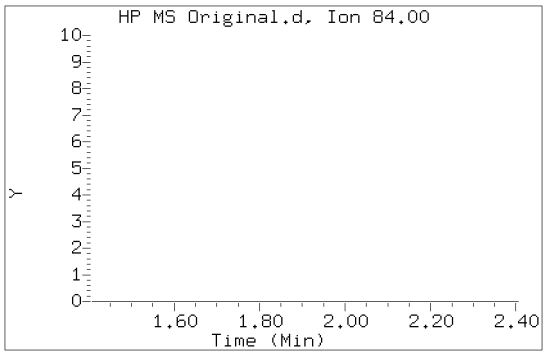
AFTER

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56
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10-Jul-2024
09:57
RUCHA
PATEL



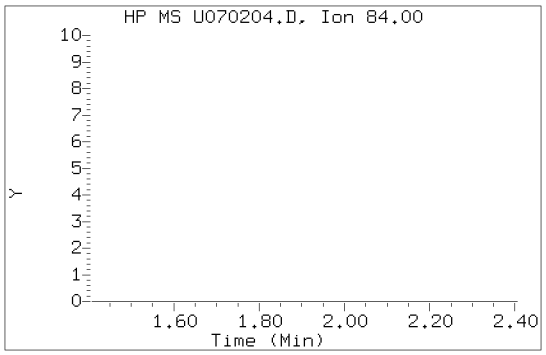
BEFORE

MASS
84
AREA
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0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL

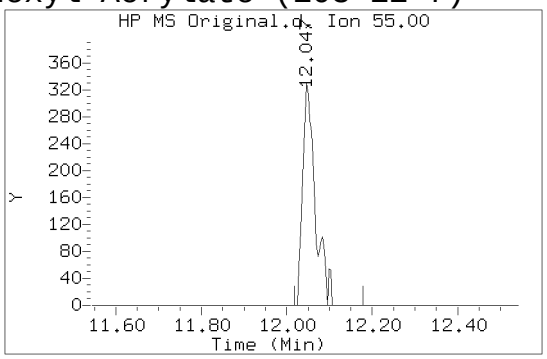


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Inj Date : 02-JUL-2024 10:51
InstruID : VOA9.i
LabSampID : VSTD001

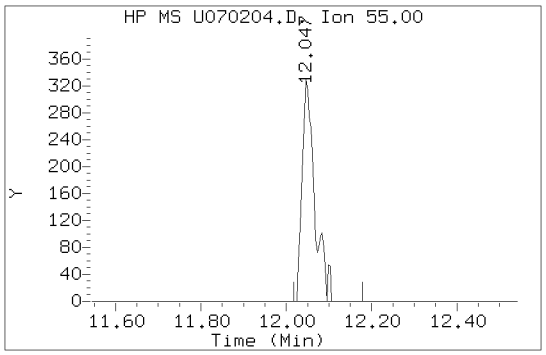
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

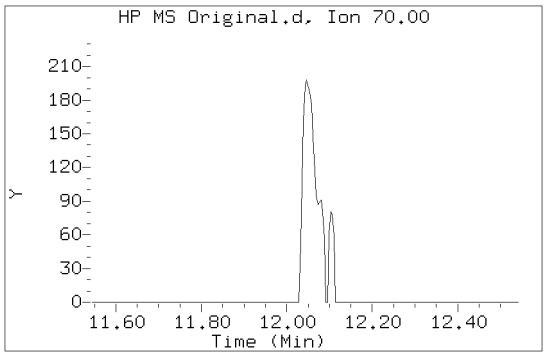
BEFORE
MASS
55
AREA
686
HEIGHT
329
10-Jul-2024
08:51
RUCHA
PATEL



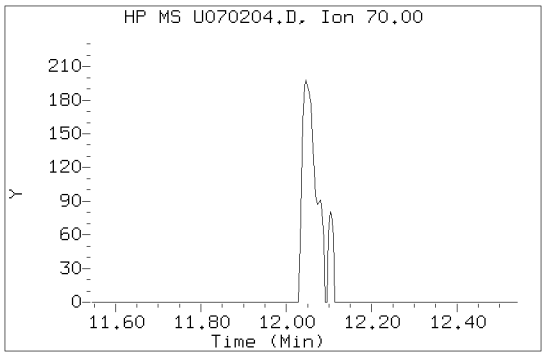
AFTER
MASS
55
AREA
686
HEIGHT
329
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
70
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



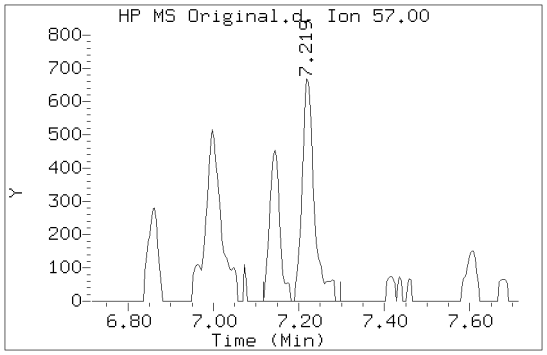
AFTER
MASS
70
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



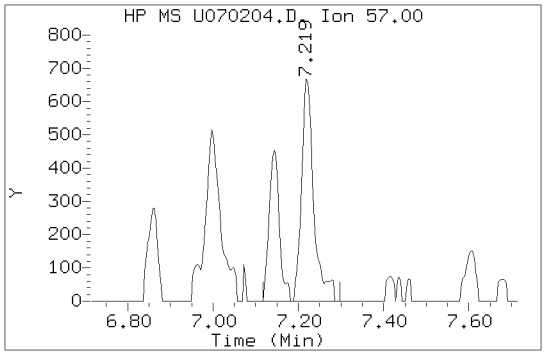
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
2124
HEIGHT
668
10-Jul-2024
08:51
RUCHA
PATEL



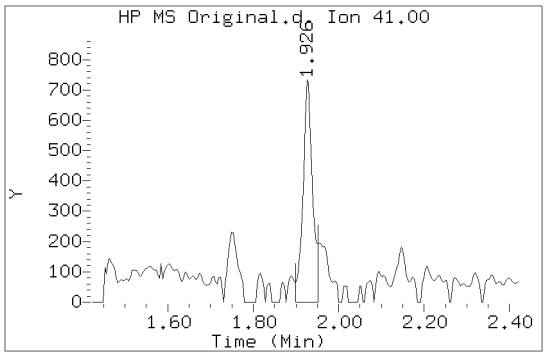
AFTER
MASS
57
AREA
2124
HEIGHT
668
10-Jul-2024
09:57
RUCHA
PATEL



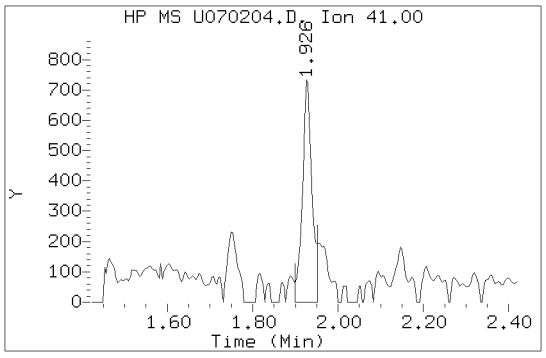
2-Chloropropene (557-98-2)

Reason Code:

BEFORE
MASS
41
AREA
1176
HEIGHT
733
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
41
AREA
1176
HEIGHT
733
10-Jul-2024
09:57
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D Page 1
Report Date: 10-Jul-2024 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
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Inj Date : 02-JUL-2024 11:13
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240702.b\8260C.m
Meth Date : 10-Jul-2024 09:57 VOA9.i Quant Type: ISTD
Cal Date : 02-JUL-2024 10:51 Cal File: U070204.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	195176	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	1353	2.00000	1.17(M)
3 Chloromethane	50	1.295	1.295	(0.269)	6433	2.00000	1.81(M)
4 Propionitrile	54	4.343	4.343	(0.903)	3079	20.0000	18.45(a)
5 Vinyl Chloride	62	1.374	1.374	(0.286)	2246	2.00000	1.71(M)
6 Bromomethane	94	1.617	1.617	(0.336)	1370	2.00000	1.99
7 Chloroethane	64	1.696	1.696	(0.353)	1893	2.00000	2.00
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	2380	2.00000	1.62
9 Acrolein	56	2.259	2.259	(0.469)	356	4.00000	8.50(aM)
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	1601	2.00000	1.80
12 Isobutyl Alcohol	43	5.284	5.284	(1.098)	6142	40.0000	37.78(a)
13 Acetonitrile	39	2.667	2.667	(0.554)	2508	20.0000	22.21(a)
14 Allyl Chloride	41	2.671	2.671	(0.555)	6018	2.00000	2.05(a)
15 Iodomethane	142	2.465	2.465	(0.512)	1956	4.00000	4.68(T)
16 Acrylonitrile	53	3.061	3.061	(0.636)	1894	4.00000	3.73
17 Methylene Chloride	84	2.787	2.787	(0.579)	10391	2.00000	2.02
18 Methyl tert-butyl ether	73	3.072	3.072	(0.639)	5275	2.00000	1.84
19 Carbon Disulfide	76	2.513	2.513	(0.522)	9106	4.00000	3.61
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	2020	2.00000	1.99
21 Vinyl Acetate	43	4.347	4.347	(0.903)	2452	4.00000	3.85(M)

22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	4094	2.00000	2.07
23 Chloroprene	53	3.604	3.604 (0.749)	2673	2.00000	1.78(a)

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.272	4.272	(0.888)	2365	4.00000	3.95(M)
	25	Methacrylonitrile	41	4.504	4.504	(0.936)	1517	2.00000	1.60(a)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	2443	2.00000	2.85(M)
	27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	2597	2.00000	2.06
	28	Chloroform	83	4.571	4.571	(0.950)	4398	2.00000	2.05
	29	Bromochloromethane	128	4.466	4.466	(0.928)	1389	2.00000	2.20
$	30	Dibromofluoromethane	113	4.744	4.744	(0.986)	2754	2.00000	2.08
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	2623	2.00000	2.29
	32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	2556	2.00000	1.68
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	3567	2.00000	2.03(M)
	34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	2146	2.00000	2.72(M)
$	35	1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	3384	2.00000	2.02
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	296046	50.0000	
	37	Benzene	78	5.138	5.138	(0.926)	10297	2.00000	2.01
	38	Trichloroethene	130	5.786	5.786	(1.043)	2476	2.00000	2.02(a)
	39	Bromodichloromethane	83	6.277	6.277	(1.131)	2750	2.00000	1.81(aM)
	40	Methyl Methacrylate	41	5.835	5.835	(1.213)	879	2.00000	1.99(a)
	41	2-Chloroethylvinyl ether	63	6.592	6.592	(1.188)	12	4.00000	12.18(M)
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	2793	2.00000	2.06(aM)
	43	2-Nitropropane	43	6.854	6.854	(1.425)	4226	2.00000	1.73(a)
	44	Dibromomethane	93	6.120	6.120	(1.103)	1474	2.00000	1.87(a)
	45	4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	4226	4.00000	3.42(a)
	46	cis-1,3-Dichloropropene	75	6.693	6.693	(1.206)	2822	2.00000	3.34(a)
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	264137	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	9217	2.00000	2.04(a)
	49	Ethyl Methacrylate	69	7.293	7.293	(1.314)	2444	2.00000	1.53(a)
	50	Toluene	91	6.982	6.982	(0.853)	9132	2.00000	1.86(a)
	51	trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	2087	2.00000	3.50(a)
	52	2-Hexanone	43	7.222	7.222	(0.882)	3309	4.00000	1.79(a)
	53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	2008	2.00000	2.07(a)
	54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	4152	2.00000	2.06(a)
	55	Dibromochloromethane	129	7.694	7.694	(0.940)	1870	2.00000	1.66(a)
	56	Tetrachloroethene	164	7.458	7.458	(0.911)	1683	2.00000	1.56(a)
	57	1,2-Dibromoethane	107	7.788	7.788	(0.951)	1853	2.00000	1.76(a)
	58	1-Chlorohexane	55	8.189	8.189	(1.475)	4130	2.00000	1.72(a)
	59	Chlorobenzene	112	8.211	8.211	(1.003)	6749	2.00000	2.01(a)
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	2142	2.00000	1.93(a)
	61	Ethylbenzene	106	8.309	8.309	(1.015)	2803	2.00000	1.83(aM)
	62	m,p-Xylenes	106	8.410	8.410	(1.027)	5991	4.00000	4.34(a)
	63	o-Xylene	106	8.751	8.751	(1.069)	2943	2.00000	2.10(a)
	64	Styrene	104	8.766	8.766	(1.071)	4548	2.00000	2.60(a)
	66	Bromoform	173	8.920	8.920	(1.090)	1215	2.00000	4.46(aM)
	67	Isopropylbenzene	105	9.066	9.066	(1.108)	7588	2.00000	2.19(a)
	68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	3057	2.00000	1.99(aM)
$	69	4-Bromofluorobenzene	95	9.197	9.197	(1.124)	3757	2.00000	2.11(a)
*	70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	135052	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	2895	2.00000	1.93(a)
	72	trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	571	2.00000	2.79(aM)
	73	n-Propylbenzene	91	9.415	9.415	(0.926)	7990	2.00000	3.06(a)
	74	Bromobenzene	156	9.321	9.321	(0.916)	2385	2.00000	1.81(a)
	75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	5126	2.00000	2.36(a)
	76	2-Chlorotoluene	91	9.482	9.482	(0.932)	6321	2.00000	1.91(a)

77 4-Chlorotoluene	91	9.580	9.580 (0.942)	6648	2.00000	1.78(a)
78 tert-Butylbenzene	119	9.838	9.838 (0.967)	5308	2.00000	2.24(a)

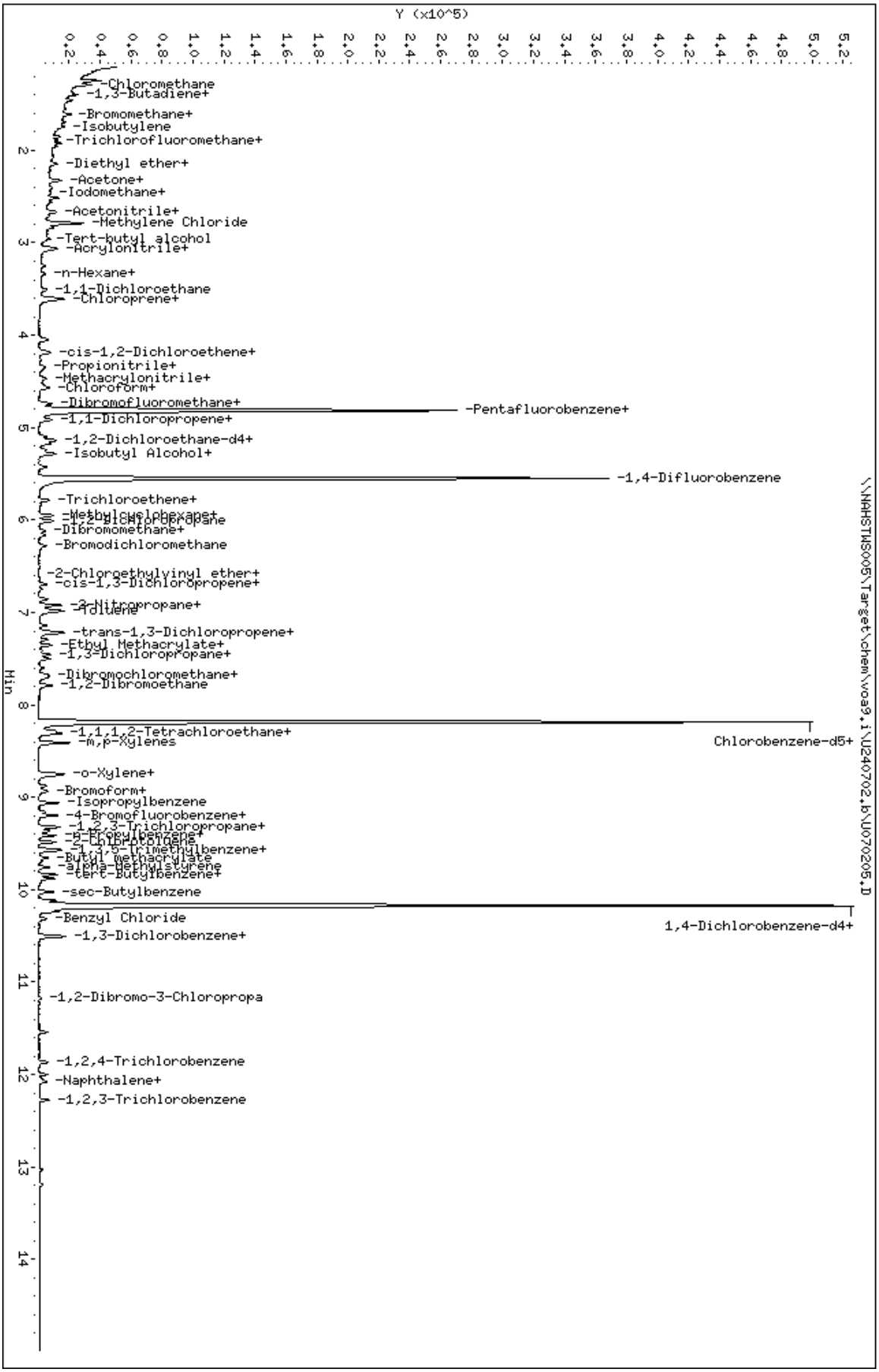
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Report Date: 10-Jul-2024 09:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	6270	2.00000	4.02(a)
81	sec-Butylbenzene	105	10.026	10.026	(0.986)	6272	2.00000	2.56(a)
82	p-Isopropyltoluene	119	10.149	10.149	(0.998)	5267	2.00000	3.71(a)
83	1,3-Dichlorobenzene	146	10.509	10.509	(1.033)	5004	2.00000	1.94(a)
84	1,4-Dichlorobenzene	146	10.509	10.509	(1.033)	5004	2.00000	1.94(a)
86	Benzyl Chloride	91	10.318	10.318	(1.261)	3789	2.00000	2.41(a)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	4738	2.00000	3.18(a)
88	1,2-Dichlorobenzene	146	10.509	10.509	(1.033)	5004	2.00000	1.94(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	338	2.00000	2.36(aM)
90	1,2,4-Trichlorobenzene	180	11.866	11.866	(1.167)	2450	2.00000	2.04(a)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	1139	2.00000	2.82(aM)
92	Naphthalene	128	12.076	12.076	(1.187)	4141	2.00000	3.81(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	2222	2.00000	1.66(a)
146	Methyl acetate	43	2.712	2.712	(0.564)	2392	2.00000	2.44(aM)
138	Freon TF	101	2.330	2.330	(0.484)	1355	2.00000	1.87(a)
141	Cyclohexane	56	4.811	4.811	(1.000)	5807	2.00000	2.03(a)
142	Tetrahydrofuran	42	4.549	4.549	(0.945)	1049	4.00000	5.37(M)
147	Methylcyclohexane	55	5.947	5.947	(1.072)	4472	2.00000	1.62(a)
135	1,4-Dioxane	88	6.180	6.180	(1.284)	506	40.0000	43.77(M)
132	n-Butanol	56	5.831	5.831	(1.212)	955	40.0000	31.43(a)
136	n-Hexane	57	3.338	3.338	(0.694)	1444	2.00000	1.66(Ta)
139	Diethyl ether	59	2.142	2.142	(0.445)	1759	2.00000	2.63(a)
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	4020	40.0000	52.21
149	Isopropyl alcohol	45	2.558	2.558	(0.532)	2883	40.0000	36.12(T)
156	Diisopropyl ether	45	3.616	3.616	(0.751)	7492	2.00000	2.20(Ta)
162	Butyl acrylate	55	8.740	8.740	(1.068)	3334	2.00000	1.63(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	12049	2.00000	1.67(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	5797	2.00000	1.71(a)
167	Ethanol	45	2.079	2.079	(0.432)	1005	40.0000	72.02(M)
172	tert-Butyl formate	59	5.239	5.239	(1.089)	3056	4.00000	3.39(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	10117	40.0000	32.58
140	1,3-Butadiene	54	1.400	1.400	(0.291)	1944	2.00000	1.71(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	217	8.00000	12.11(M)
M 94	1,2-Dichloroethylene (total)	96				4617	4.00000	(a)
130	Ethyl Acetate	43	4.545	4.545	(0.945)	1419	2.00000	2.39(aM)
131	Methyl Acrylate	55	4.377	4.377	(0.910)	2588	2.00000	1.85(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	3633	2.00000	1.90(aM)
134	Cyclohexanone	55	9.160	9.160	(0.901)	1891	40.0000	34.11(a)
185	Isoprene	39	2.150	2.150	(0.447)	441	2.00000	1.74(aM)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	6351	2.00000	1.86(a)
150	Allyl alcohol	57	3.338	3.338	(0.694)	1444	40.0000	32.96
194	Acetaldehyde	44	1.456	1.456	(0.303)	2827	8.00000	10.49(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	797	2.00000	2.28(aM)
202	Isobutylene	41	1.749	1.749	(0.363)	769	2.00000	1.87(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.236)	4657	2.00000	1.76(aM)
163	Butyl methacrylate	41	9.655	9.655	(0.949)	2772	2.00000	2.09(a)
159	Propylene oxide	43	2.217	2.217	(0.461)	356	4.00000	2.51(aM)
178	Ethylene oxide	44	1.606	1.606	(0.334)	2923	4.00000	3.13(aM)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	1336	2.00000	2.25(a)
204	Tetrahydrothiophene	60	7.675	7.675	(0.938)	2028	2.00000	1.54(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	4460	2.00000	1.86(aAM)
187	n-Amyl acetate	43	8.935	8.935	(1.092)	3335	2.00000	1.64(aM)

206 2-Chloropropene	41	1.921	1.921 (0.399)	3175	2.00000	2.05(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4
Purge Volume: 5.0
Column phase: DB624

Instrument: WOA9,i
Operator: TS
Column diameter: 0.18

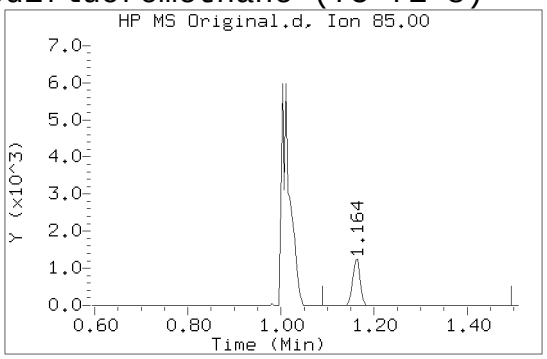
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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

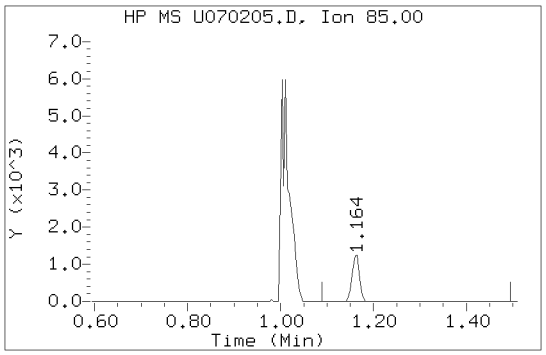
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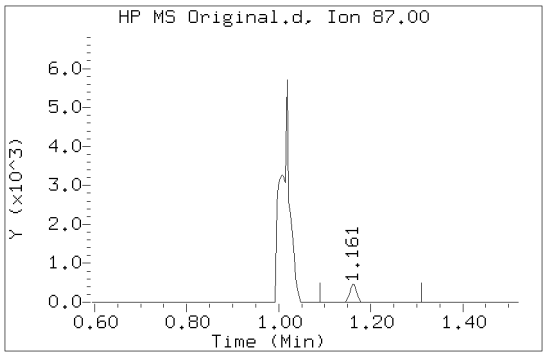
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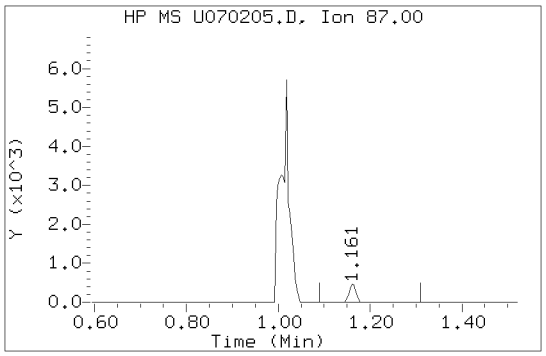
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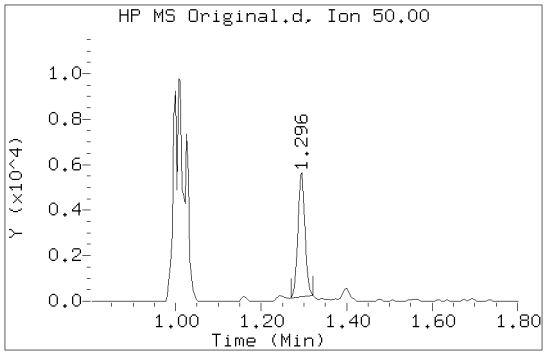


Chloromethane (74-87-3)

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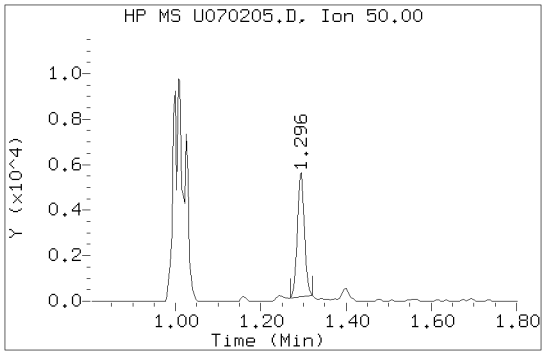
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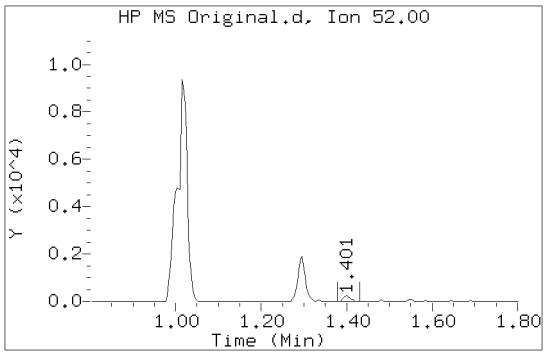
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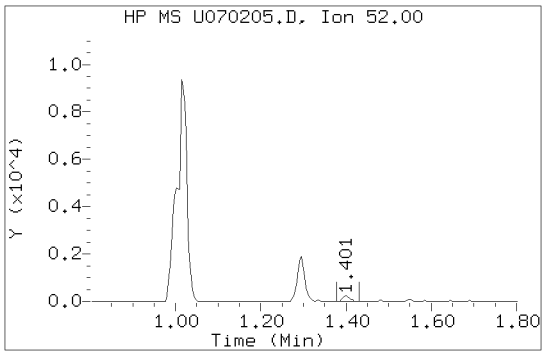
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AFTER

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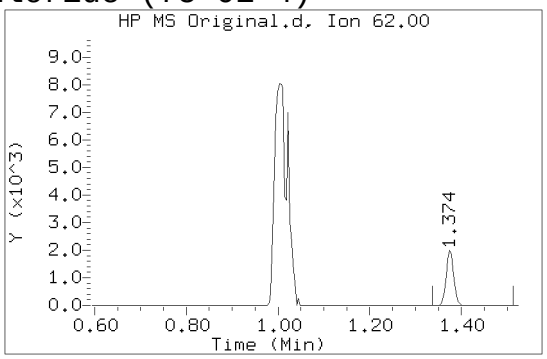
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LabSampID : VSTD002

Vinyl Chloride (75-01-4)

Reason Code:

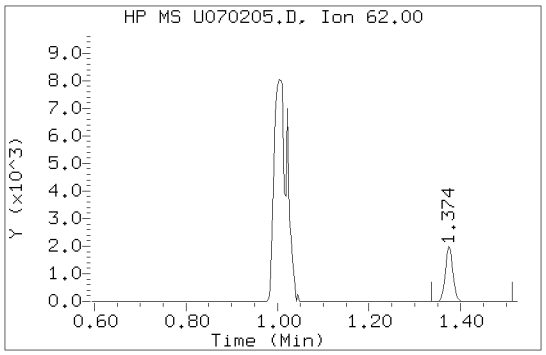
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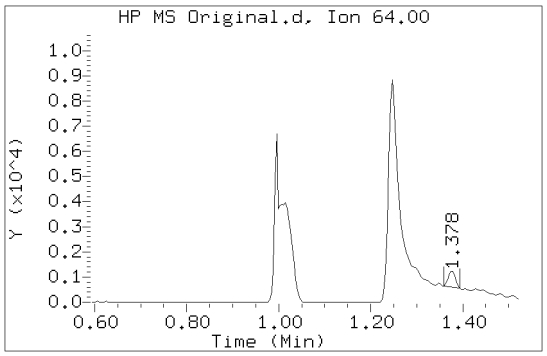
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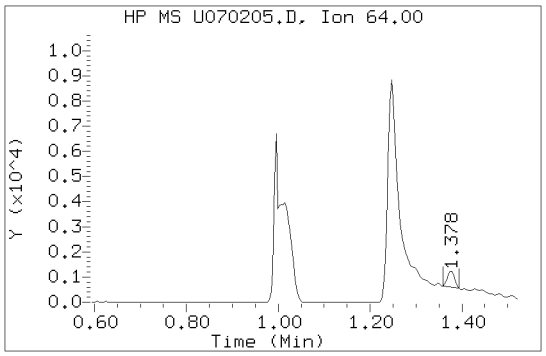
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AFTER

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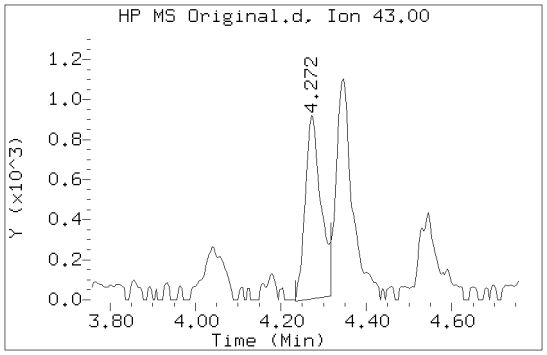


2-Butanone (78-93-3)

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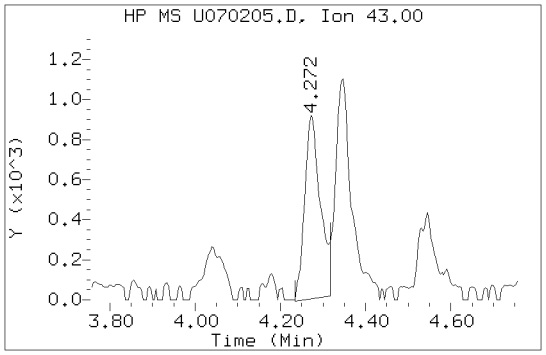
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RUCHA
PATEL



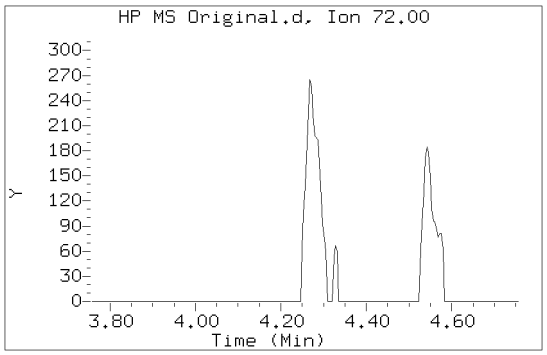
AFTER

MASS
43
AREA
2365
HEIGHT
915
10-Jul-2024
09:57
RUCHA
PATEL



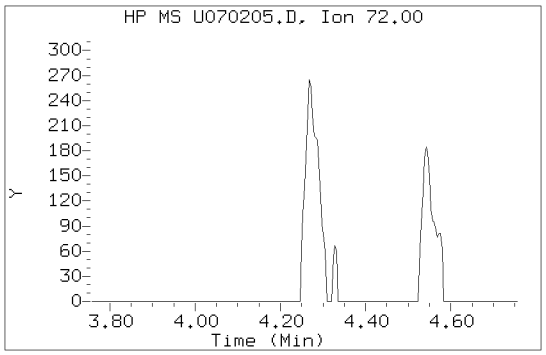
BEFORE

MASS
72
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
72
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



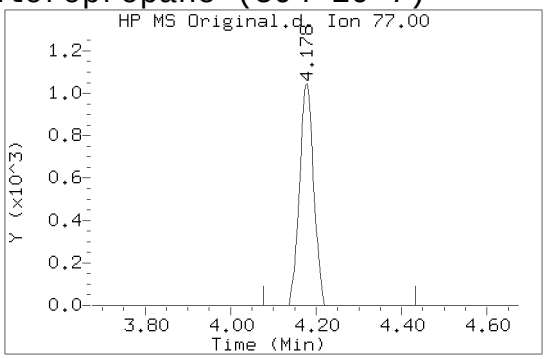
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

2,2-Dichloropropane (594-20-7)

Reason Code:

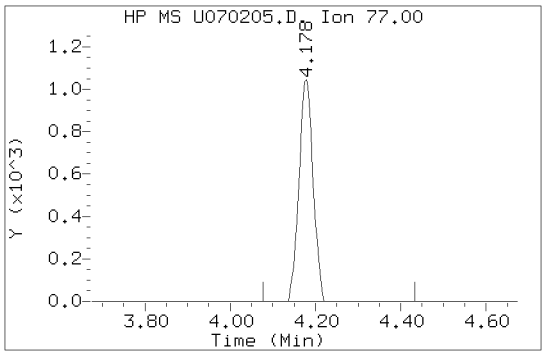
BEFORE

MASS
77
AREA
2443
HEIGHT
1045
10-Jul-2024
08:51
RUCHA
PATEL



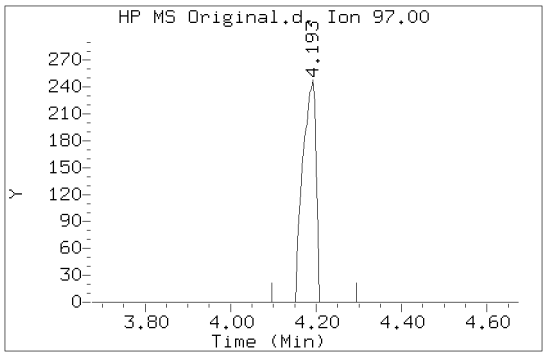
AFTER

MASS
77
AREA
2443
HEIGHT
1045
10-Jul-2024
09:57
RUCHA
PATEL



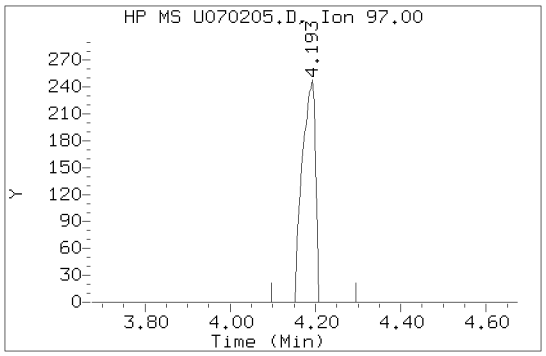
BEFORE

MASS
97
AREA
537
HEIGHT
248
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
97
AREA
537
HEIGHT
248
10-Jul-2024
09:57
RUCHA
PATEL

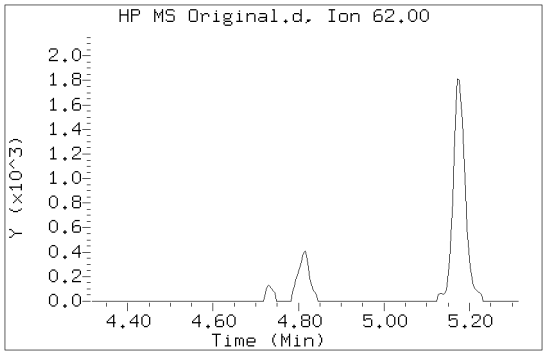


1,2-Dichloroethane (107-06-2)

Reason Code:

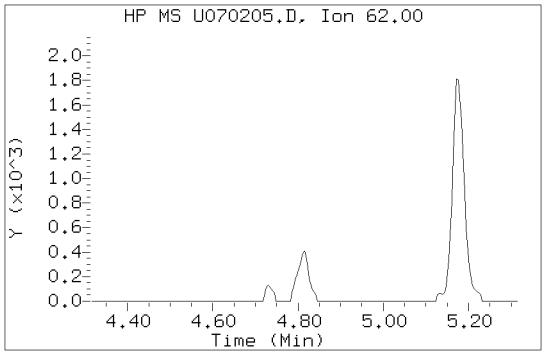
BEFORE

MASS
62
AREA
3567
HEIGHT
1812
10-Jul-2024
08:51
RUCHA
PATEL



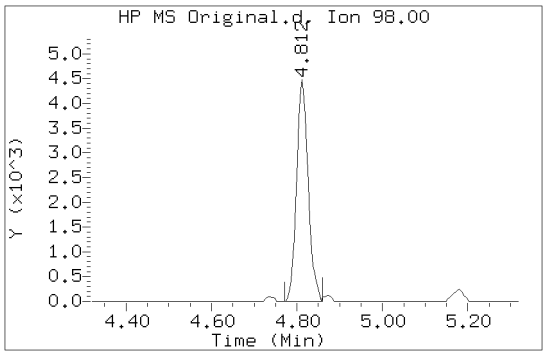
AFTER

MASS
62
AREA
3567
HEIGHT
1812
10-Jul-2024
09:57
RUCHA
PATEL



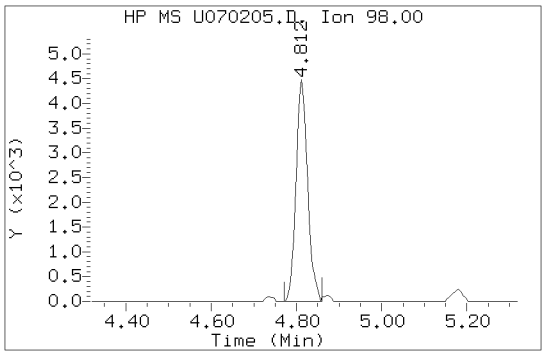
BEFORE

MASS
98
AREA
8646
HEIGHT
4478
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
98
AREA
8646
HEIGHT
4478
10-Jul-2024
09:57
RUCHA
PATEL



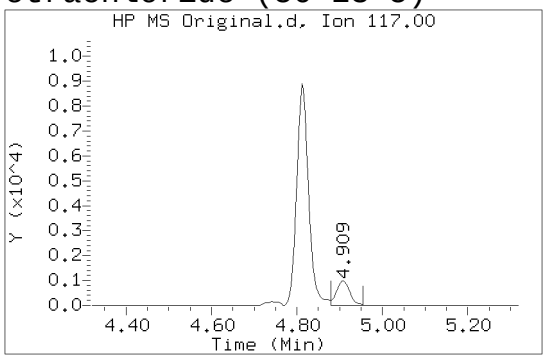
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

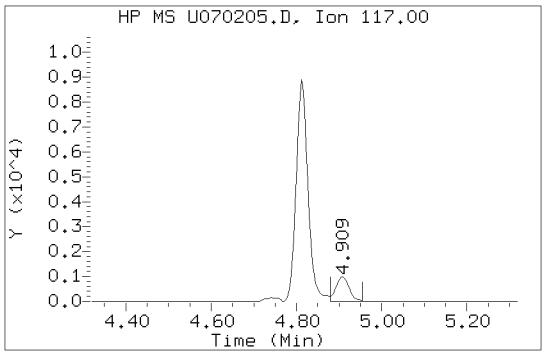
BEFORE

MASS
117
AREA
2146
HEIGHT
990
10-Jul-2024
08:51
RUCHA
PATEL



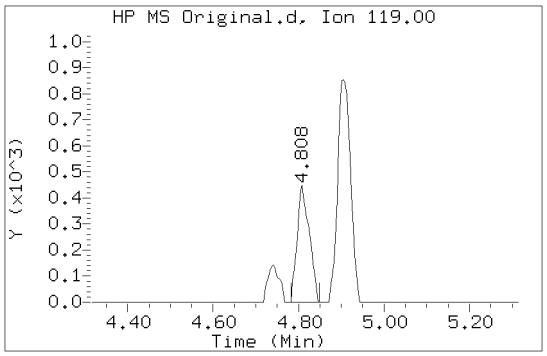
AFTER

MASS
117
AREA
2146
HEIGHT
990
10-Jul-2024
09:57
RUCHA
PATEL



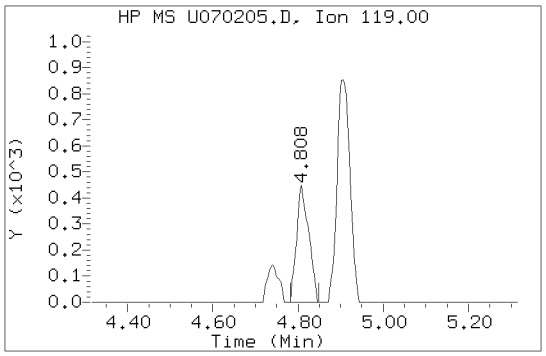
BEFORE

MASS
119
AREA
907
HEIGHT
450
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
119
AREA
907
HEIGHT
450
10-Jul-2024
09:57
RUCHA
PATEL

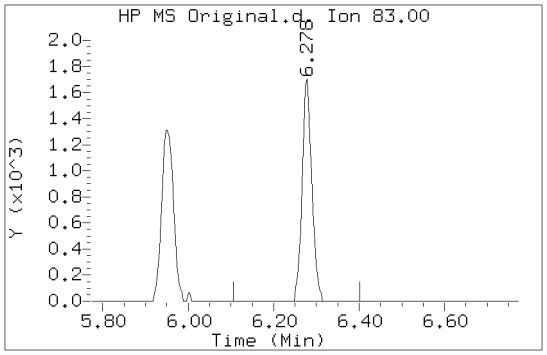


Bromodichloromethane (75-27-4)

Reason Code:

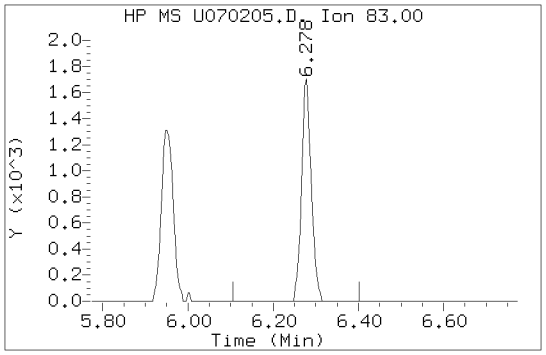
BEFORE

MASS
83
AREA
2750
HEIGHT
1705
10-Jul-2024
08:51
RUCHA
PATEL



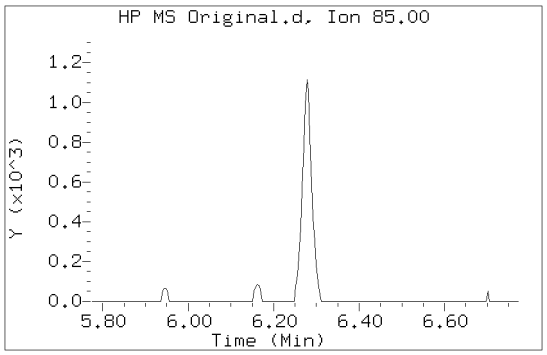
AFTER

MASS
83
AREA
2750
HEIGHT
1705
10-Jul-2024
09:57
RUCHA
PATEL



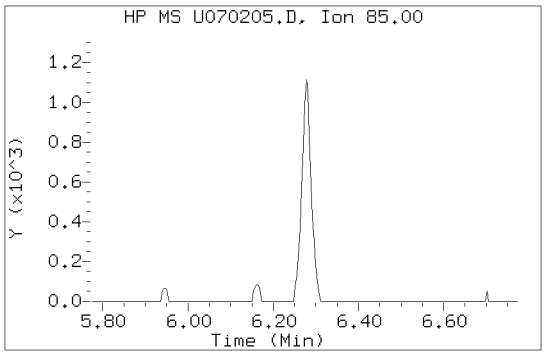
BEFORE

MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

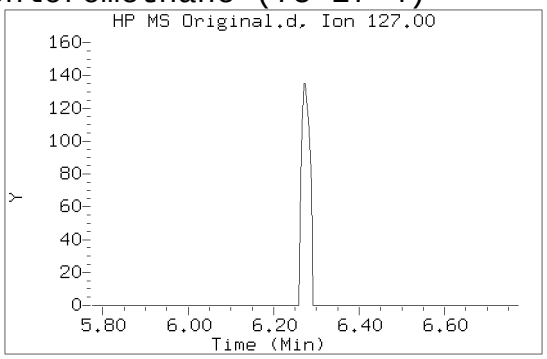
MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

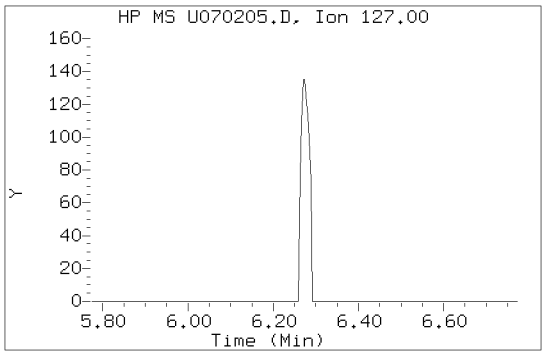
Bromodichloromethane (75-27-4)

BEFORE
MASS
127
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



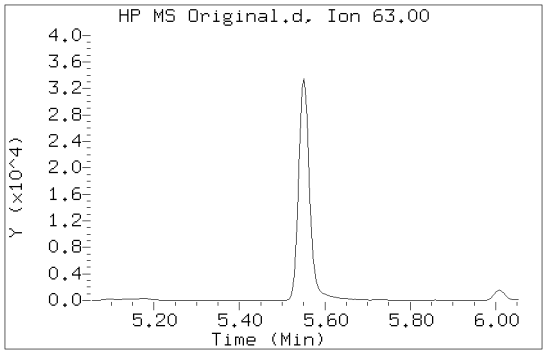
Reason Code:

AFTER
MASS
127
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



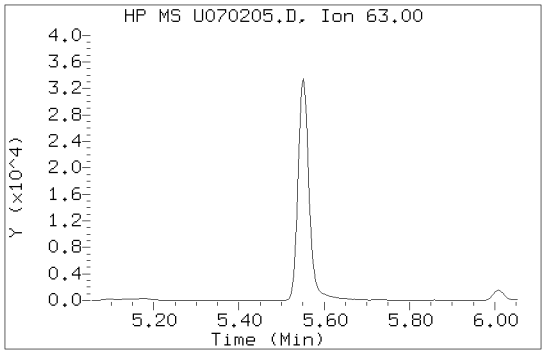
1,2-Dichloropropane (78-87-5)

BEFORE
MASS
63
AREA
2793
HEIGHT
1546
10-Jul-2024
08:51
RUCHA
PATEL

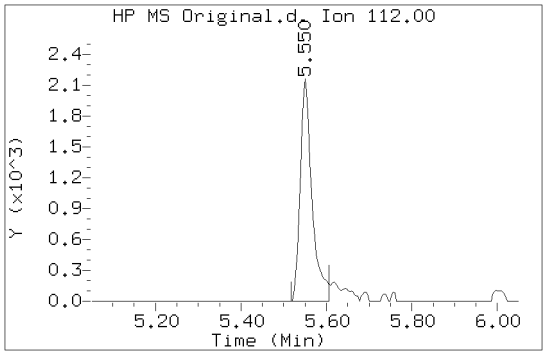


Reason Code:

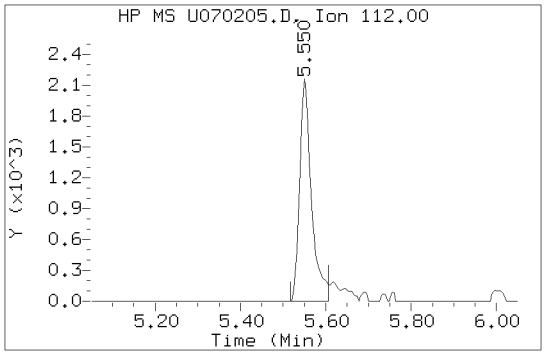
AFTER
MASS
63
AREA
2793
HEIGHT
1546
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
112
AREA
4251
HEIGHT
2161
10-Jul-2024
08:51
RUCHA
PATEL

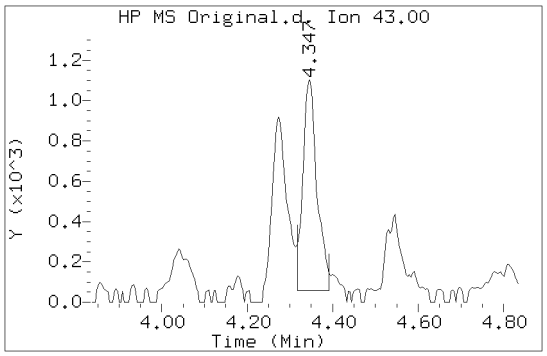


AFTER
MASS
112
AREA
4251
HEIGHT
2161
10-Jul-2024
09:57
RUCHA
PATEL



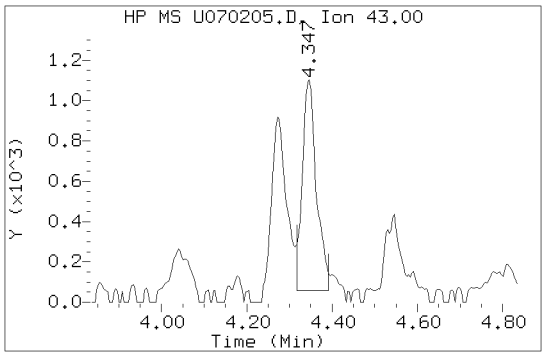
Vinyl Acetate (108-05-4)

BEFORE
MASS
43
AREA
2452
HEIGHT
1044
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

AFTER
MASS
43
AREA
2452
HEIGHT
1044
10-Jul-2024
09:57
RUCHA
PATEL



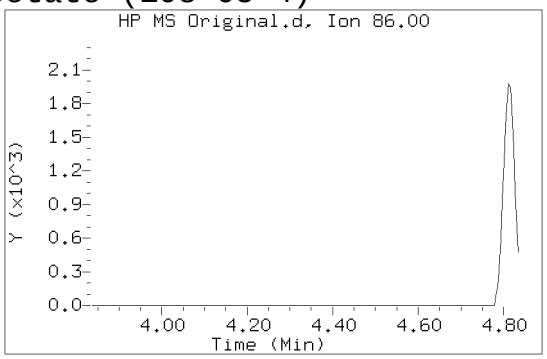
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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

Vinyl Acetate (108-05-4)

Reason Code:

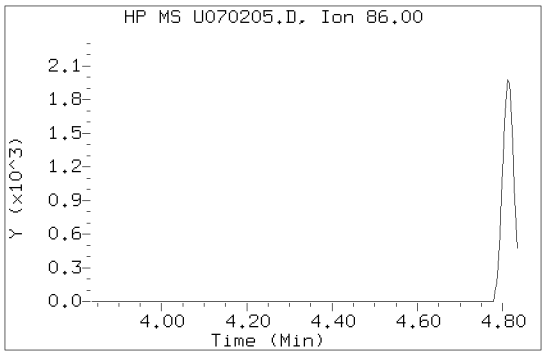
BEFORE

MASS
86
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

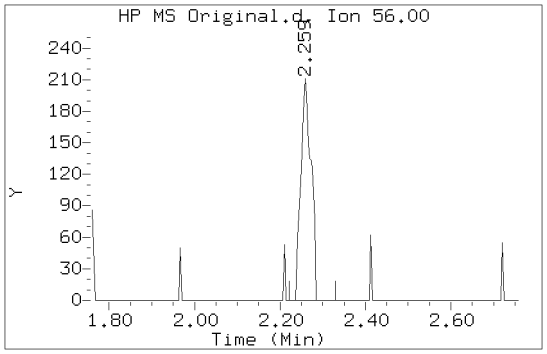


Acrolein (107-02-8)

Reason Code:

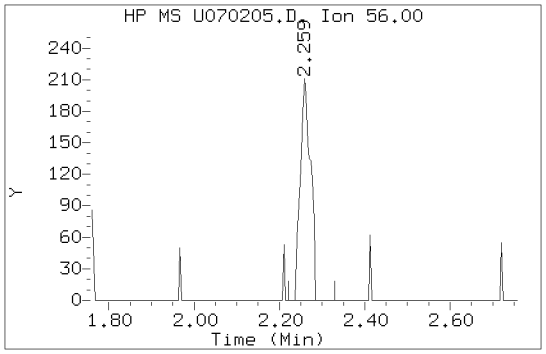
BEFORE

MASS
56
AREA
356
HEIGHT
211
10-Jul-2024
08:51
RUCHA
PATEL



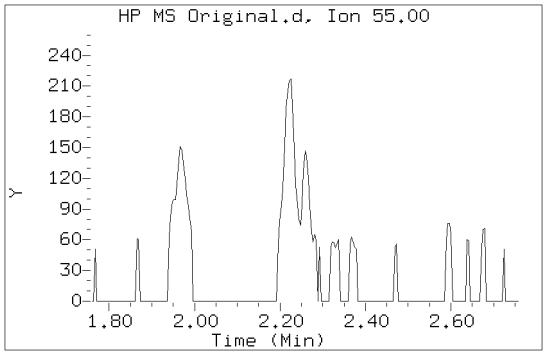
AFTER

MASS
56
AREA
356
HEIGHT
211
10-Jul-2024
09:57
RUCHA
PATEL



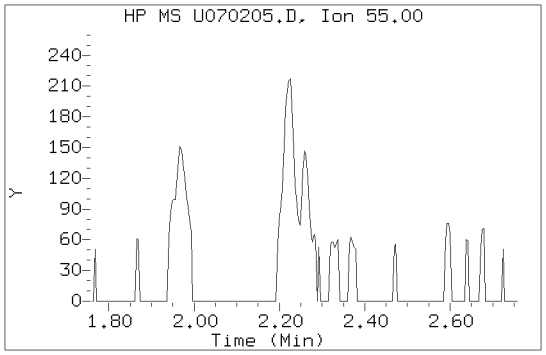
BEFORE

MASS
55
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

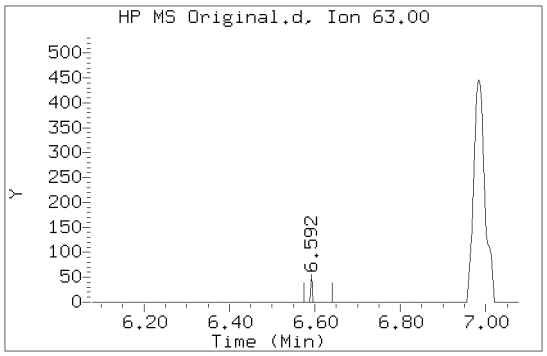


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

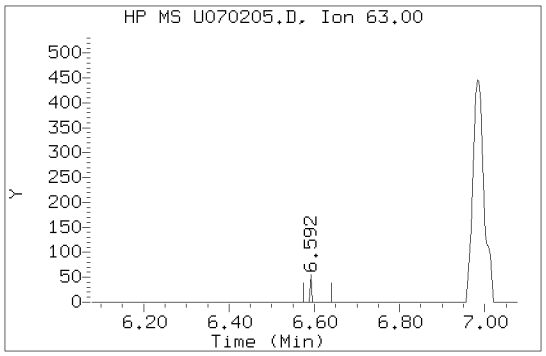
BEFORE

MASS
63
AREA
12
HEIGHT
55
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
63
AREA
12
HEIGHT
55
10-Jul-2024
09:57
RUCHA
PATEL



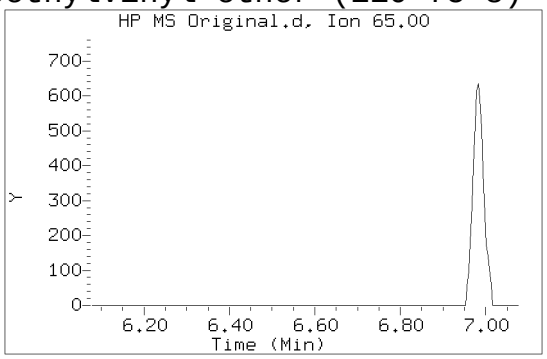
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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

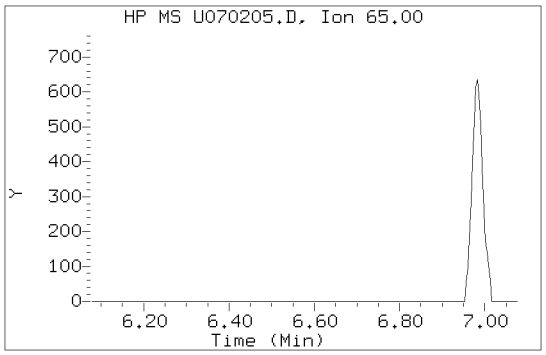
BEFORE

MASS
65
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



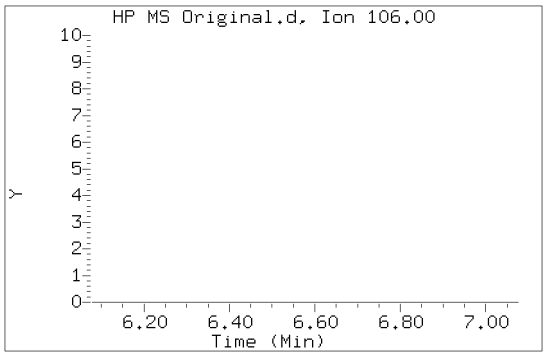
AFTER

MASS
65
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



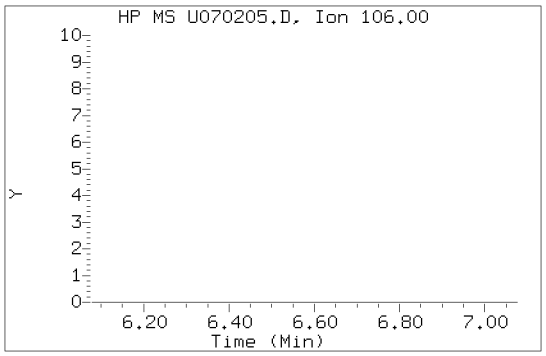
BEFORE

MASS
106
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

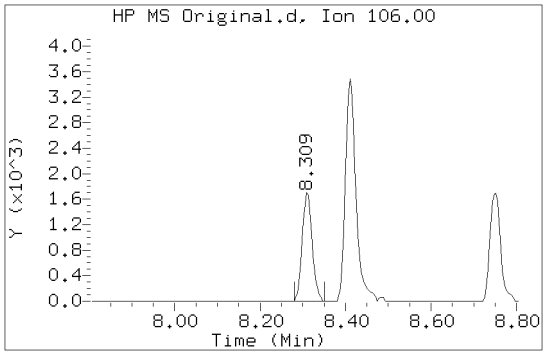


Ethylbenzene (100-41-4)

Reason Code:

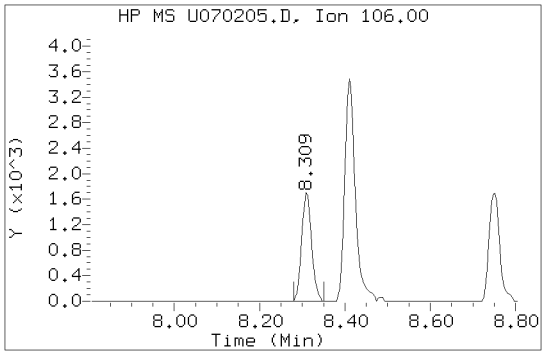
BEFORE

MASS
106
AREA
2803
HEIGHT
1703
10-Jul-2024
08:51
RUCHA
PATEL



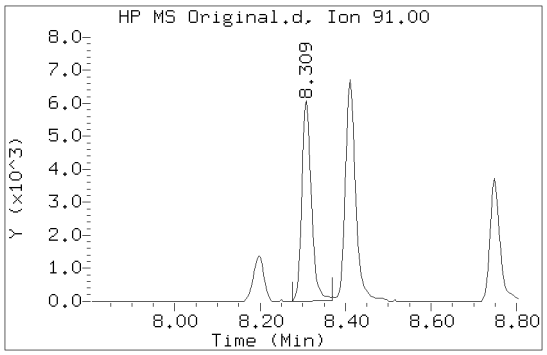
AFTER

MASS
106
AREA
2803
HEIGHT
1703
10-Jul-2024
09:57
RUCHA
PATEL



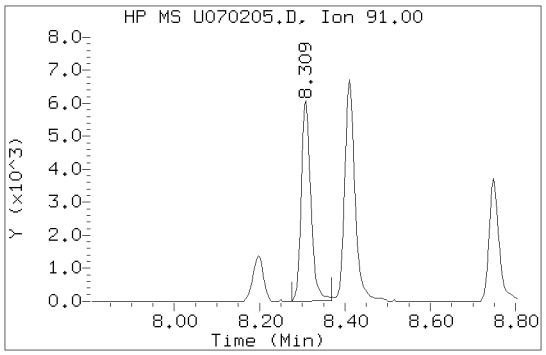
BEFORE

MASS
91
AREA
9681
HEIGHT
6075
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
91
AREA
9681
HEIGHT
6075
10-Jul-2024
09:57
RUCHA
PATEL



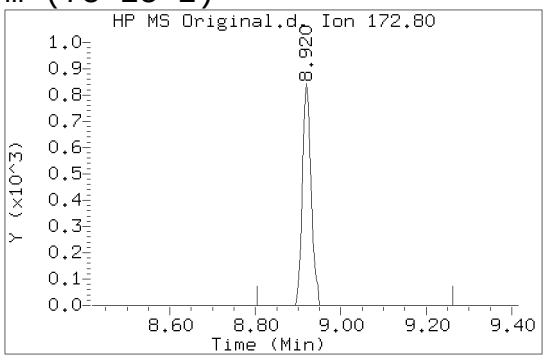
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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

Bromoform (75-25-2)

Reason Code:

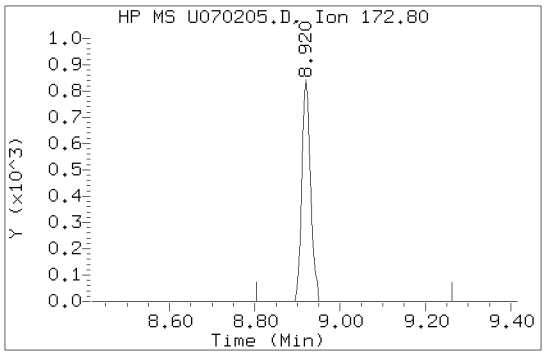
BEFORE

MASS
172.8
AREA
1215
HEIGHT
843
10-Jul-2024
08:51
RUCHA
PATEL



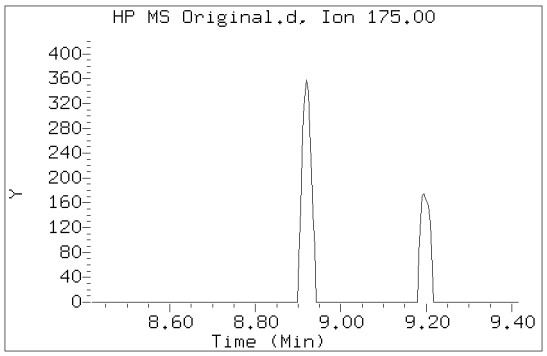
AFTER

MASS
172.8
AREA
1215
HEIGHT
843
10-Jul-2024
09:57
RUCHA
PATEL



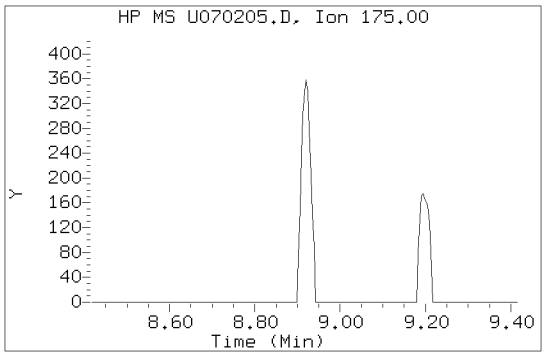
BEFORE

MASS
175
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



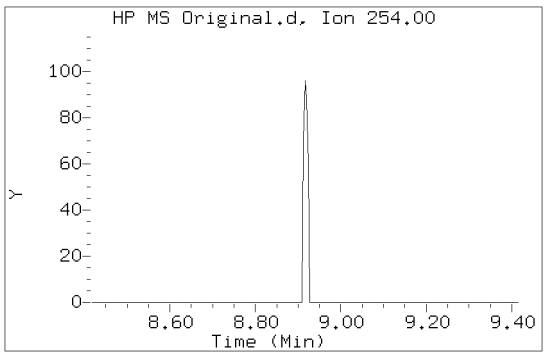
AFTER

MASS
175
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



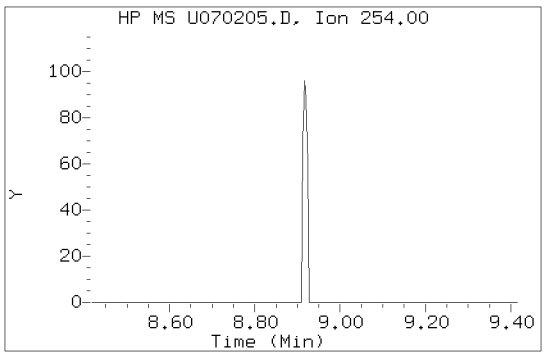
BEFORE

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254
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
254
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

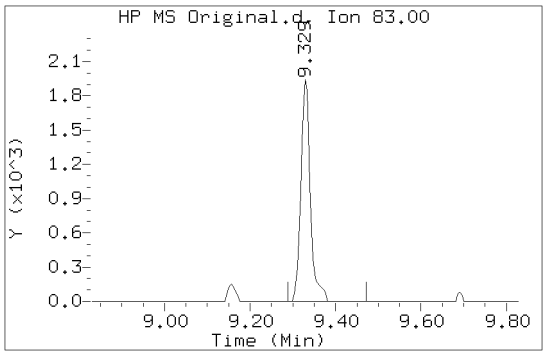


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

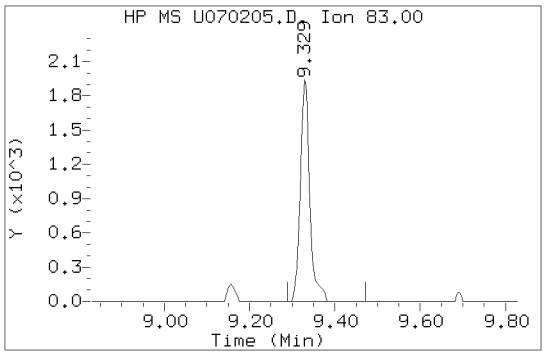
BEFORE

MASS
83
AREA
3057
HEIGHT
1942
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
83
AREA
3057
HEIGHT
1942
10-Jul-2024
09:57
RUCHA
PATEL



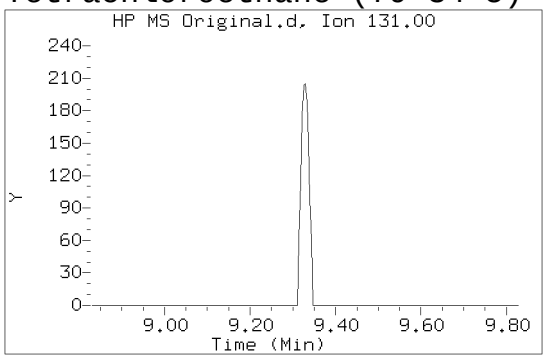
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

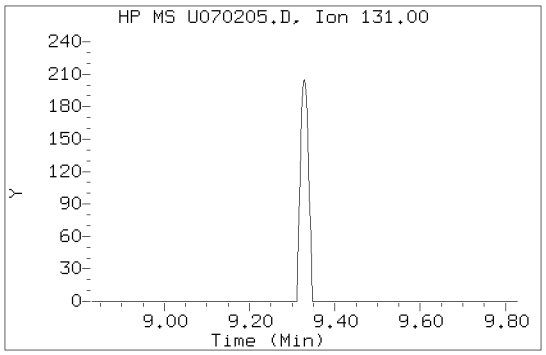
BEFORE

MASS
131
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



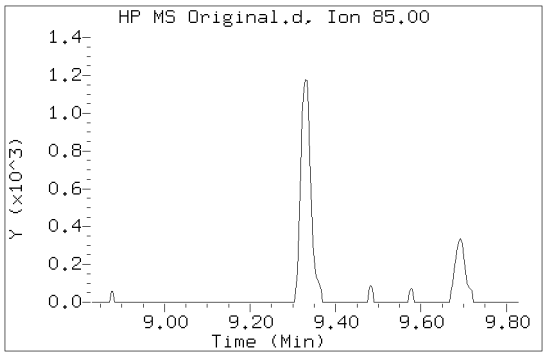
AFTER

MASS
131
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



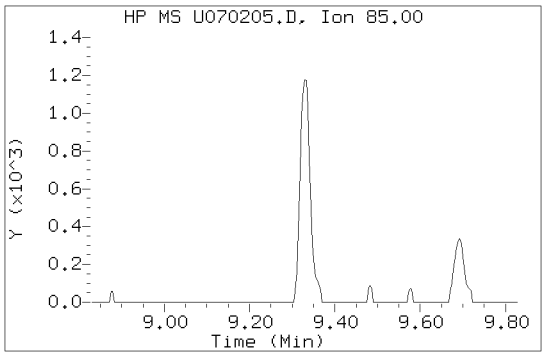
BEFORE

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85
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

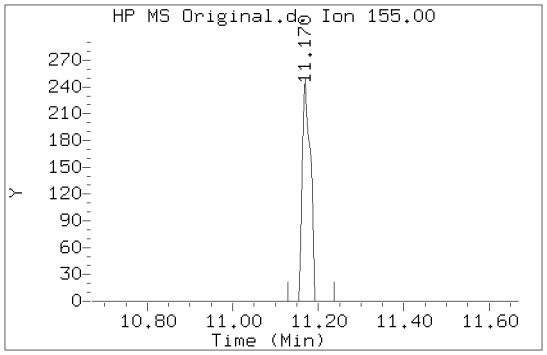


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

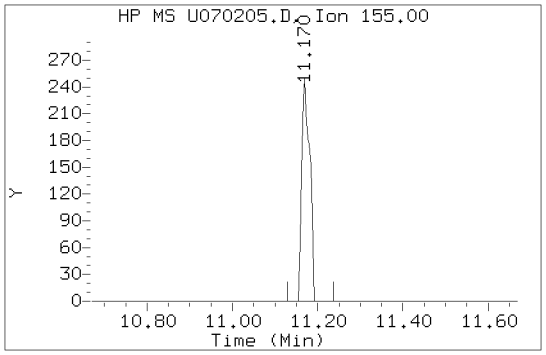
BEFORE

MASS
155
AREA
338
HEIGHT
249
10-Jul-2024
08:51
RUCHA
PATEL



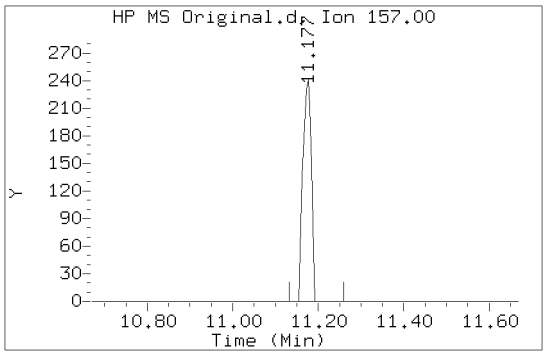
AFTER

MASS
155
AREA
338
HEIGHT
249
10-Jul-2024
09:57
RUCHA
PATEL



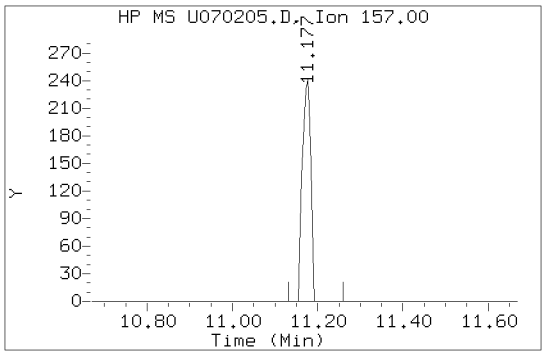
BEFORE

MASS
157
AREA
340
HEIGHT
241
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
157
AREA
340
HEIGHT
241
10-Jul-2024
09:57
RUCHA
PATEL



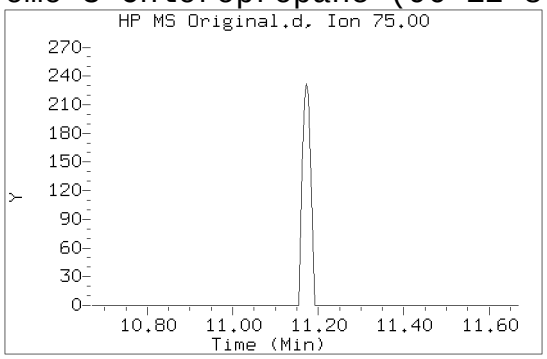
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

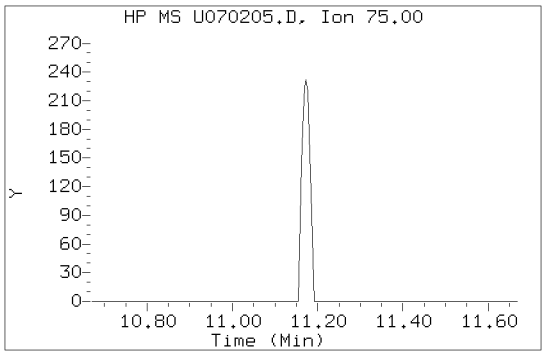
BEFORE

MASS
75
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

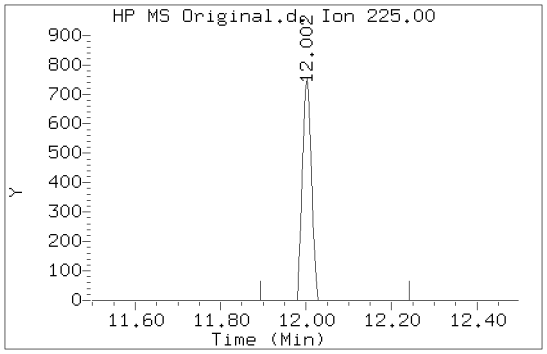


Hexachlorobutadiene (87-68-3)

Reason Code:

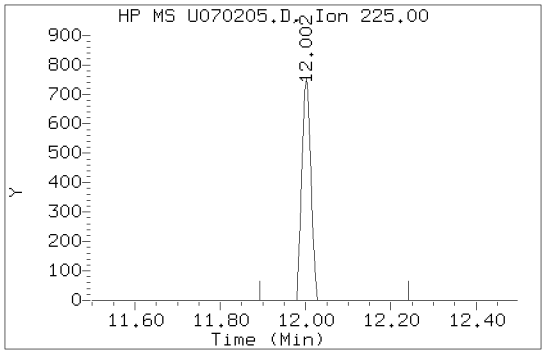
BEFORE

MASS
225
AREA
1139
HEIGHT
753
10-Jul-2024
08:51
RUCHA
PATEL



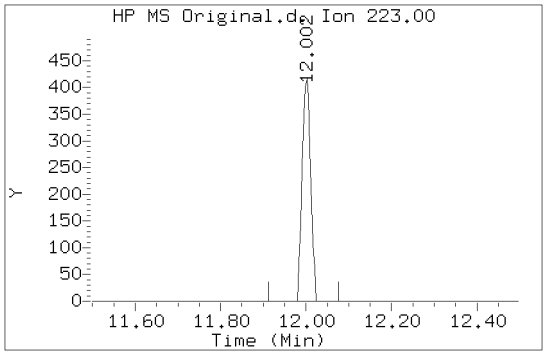
AFTER

MASS
225
AREA
1139
HEIGHT
753
10-Jul-2024
09:57
RUCHA
PATEL



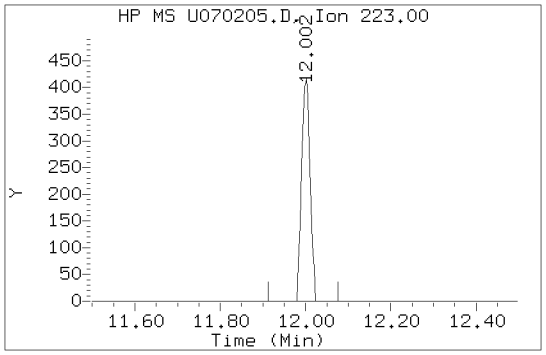
BEFORE

MASS
223
AREA
594
HEIGHT
416
10-Jul-2024
08:51
RUCHA
PATEL



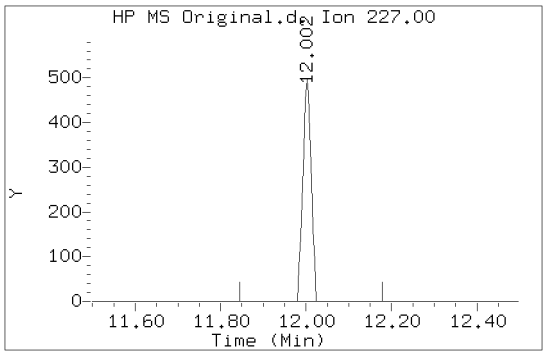
AFTER

MASS
223
AREA
594
HEIGHT
416
10-Jul-2024
09:57
RUCHA
PATEL



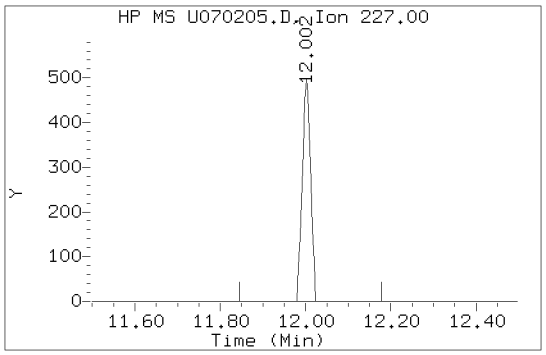
BEFORE

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227
AREA
695
HEIGHT
496
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
227
AREA
695
HEIGHT
496
10-Jul-2024
09:57
RUCHA
PATEL



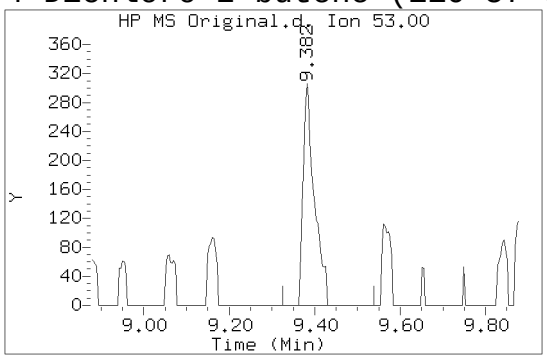
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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

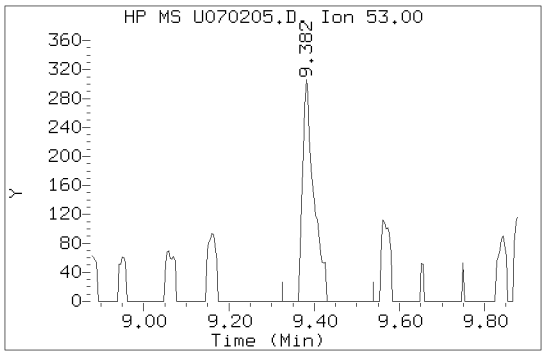
BEFORE

MASS
53
AREA
571
HEIGHT
306
10-Jul-2024
08:51
RUCHA
PATEL



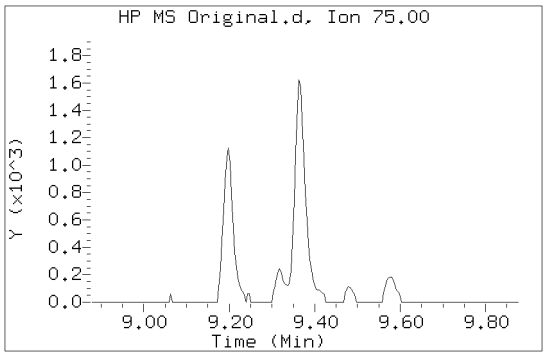
AFTER

MASS
53
AREA
571
HEIGHT
306
10-Jul-2024
09:57
RUCHA
PATEL



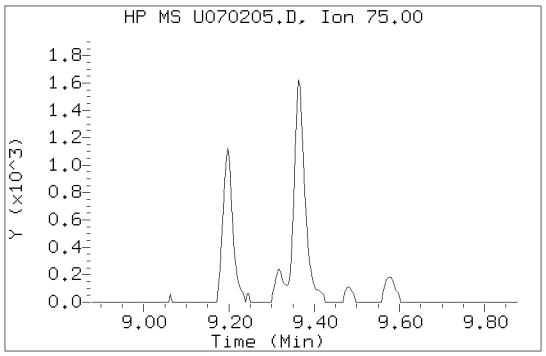
BEFORE

MASS
75
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

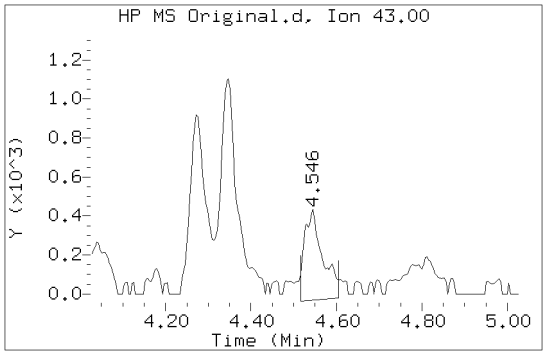


Ethyl Acetate (141-78-6)

Reason Code:

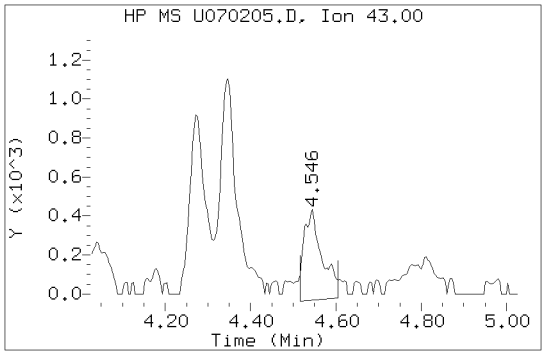
BEFORE

MASS
43
AREA
1419
HEIGHT
468
10-Jul-2024
08:51
RUCHA
PATEL



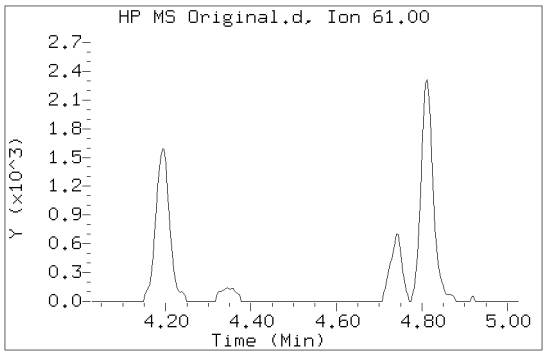
AFTER

MASS
43
AREA
1419
HEIGHT
468
10-Jul-2024
09:57
RUCHA
PATEL



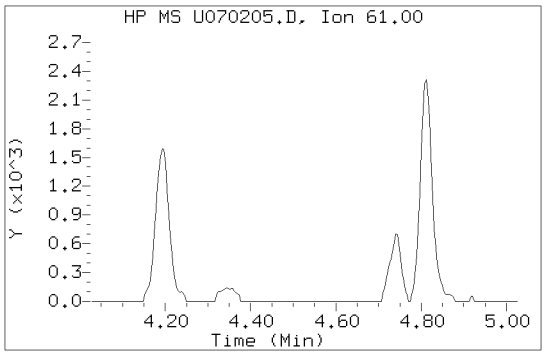
BEFORE

MASS
61
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

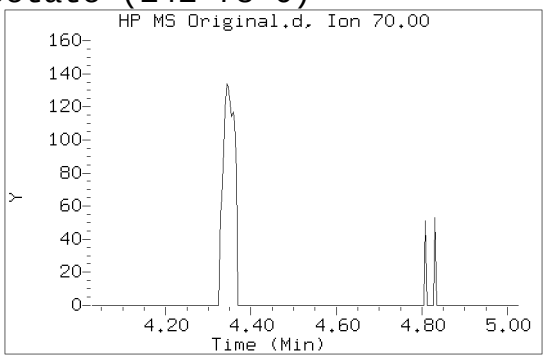


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

BEFORE

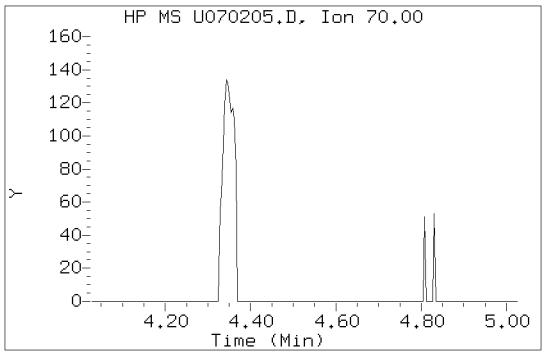
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70
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

AFTER

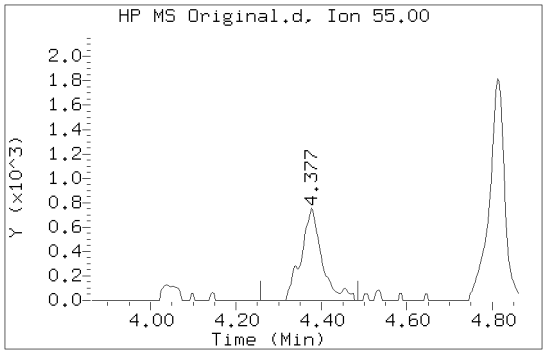
MASS
70
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



Methyl Acrylate (96-33-3)

BEFORE

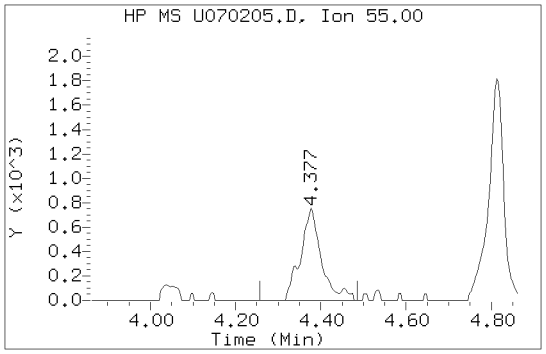
MASS
55
AREA
2588
HEIGHT
755
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

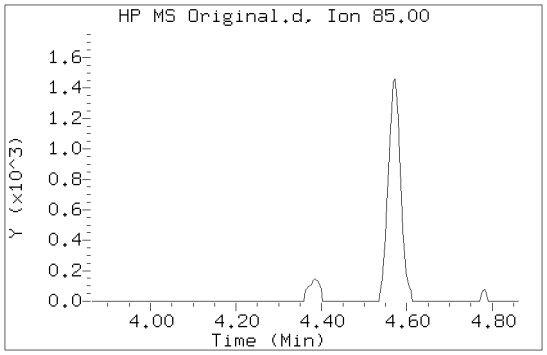
AFTER

MASS
55
AREA
2588
HEIGHT
755
10-Jul-2024
09:57
RUCHA
PATEL



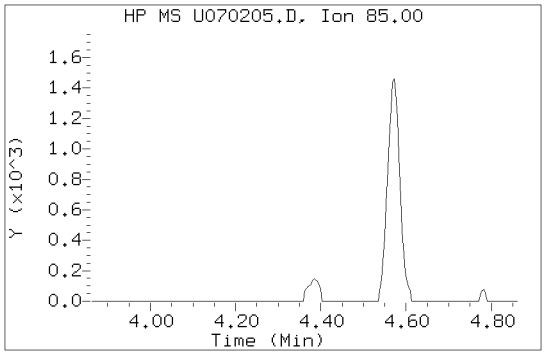
BEFORE

MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

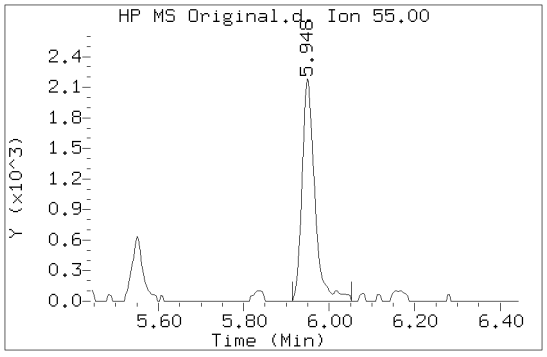
MASS
85
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



Ethyl Acrylate (140-88-5)

BEFORE

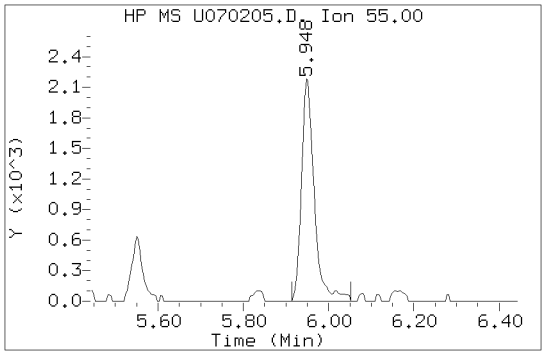
MASS
55
AREA
4657
HEIGHT
2182
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

AFTER

MASS
55
AREA
4657
HEIGHT
2182
10-Jul-2024
09:57
RUCHA
PATEL



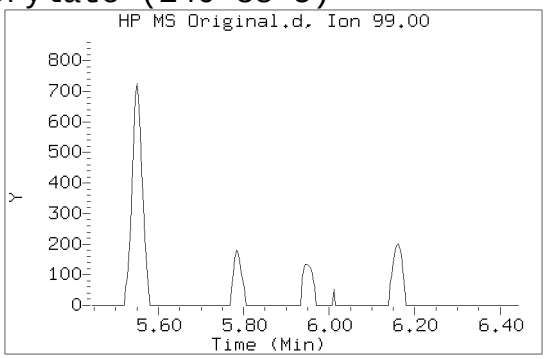
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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

Reason Code:

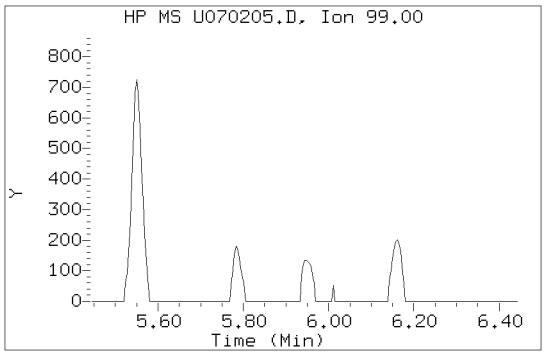
BEFORE

MASS
99
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

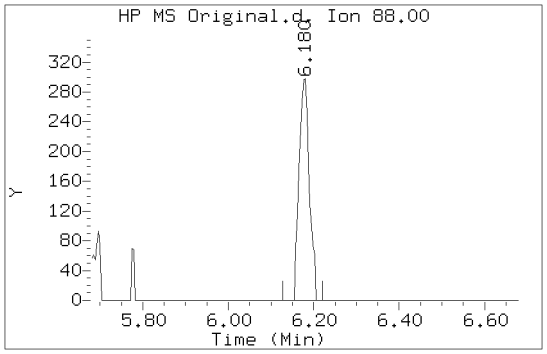


1,4-Dioxane ()

Reason Code:

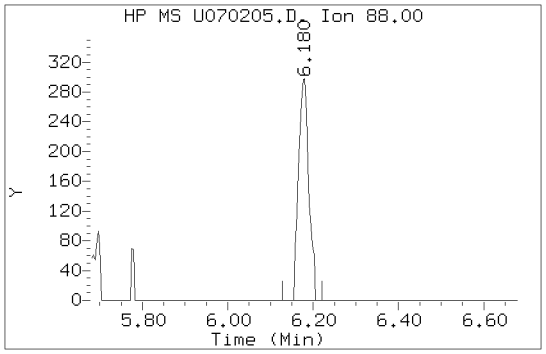
BEFORE

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AREA
506
HEIGHT
298
10-Jul-2024
08:51
RUCHA
PATEL



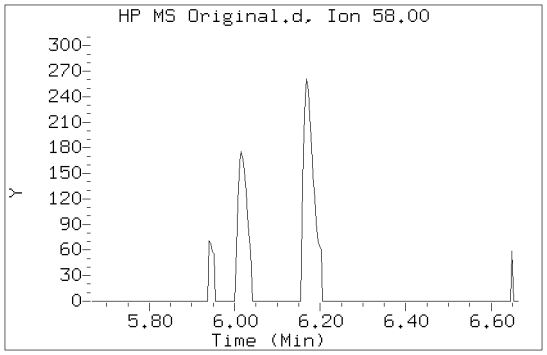
AFTER

MASS
88
AREA
506
HEIGHT
298
10-Jul-2024
09:57
RUCHA
PATEL



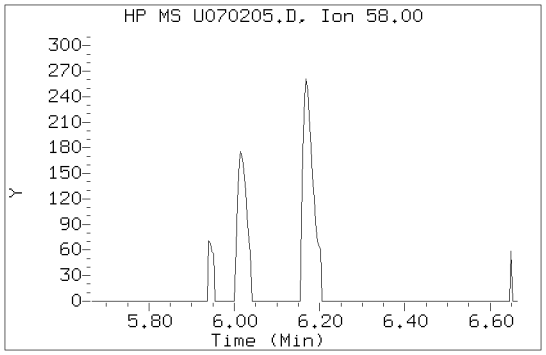
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

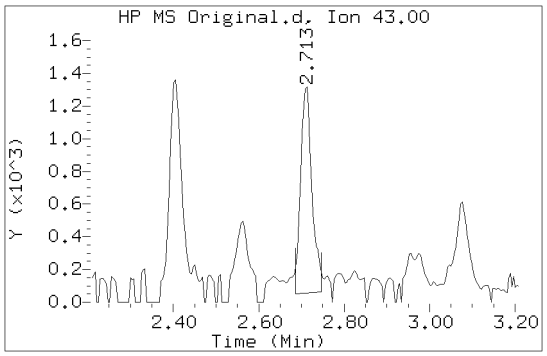


Methyl acetate (79-20-9)

Reason Code:

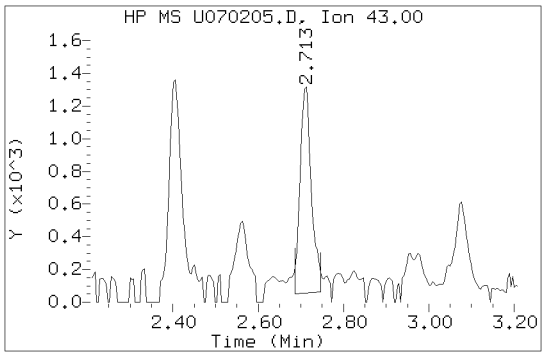
BEFORE

MASS
43
AREA
2392
HEIGHT
1260
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
43
AREA
2392
HEIGHT
1260
10-Jul-2024
09:57
RUCHA
PATEL

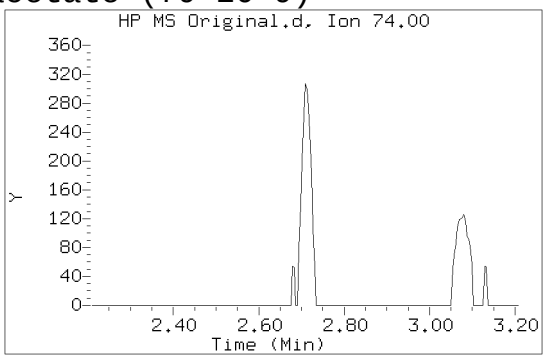


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

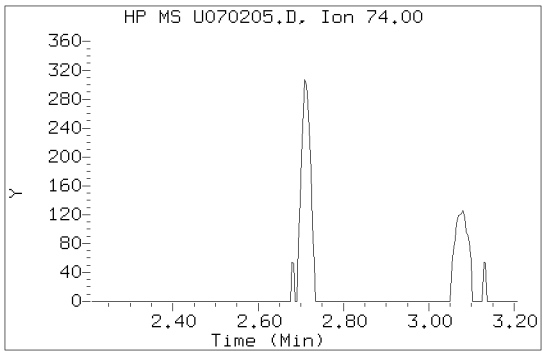
Methyl acetate (79-20-9)

Reason Code:

BEFORE
MASS
74
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



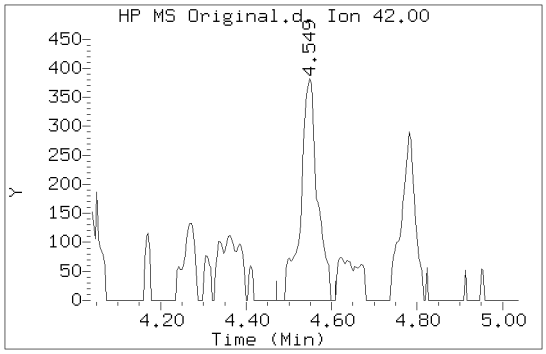
AFTER
MASS
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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



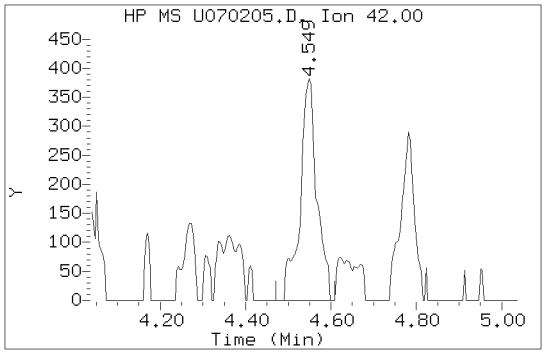
Tetrahydrofuran (109-99-9)

Reason Code:

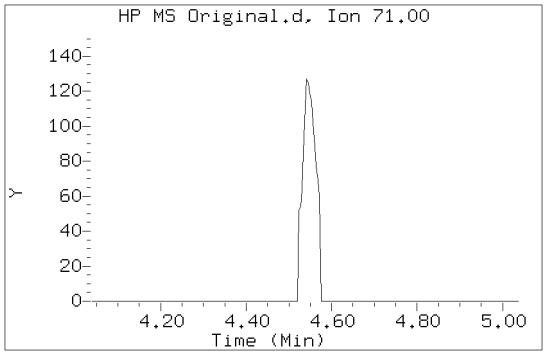
BEFORE
MASS
42
AREA
1049
HEIGHT
382
10-Jul-2024
08:51
RUCHA
PATEL



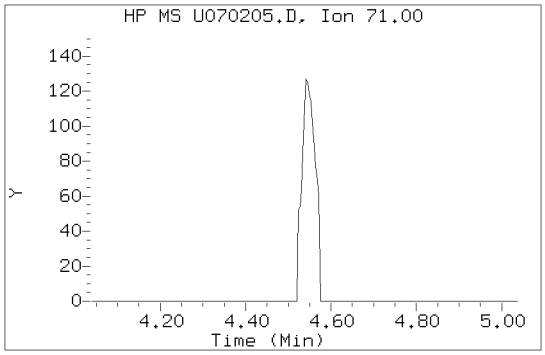
AFTER
MASS
42
AREA
1049
HEIGHT
382
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
71
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



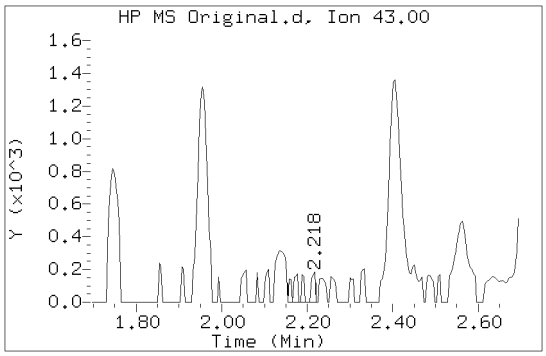
AFTER
MASS
71
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



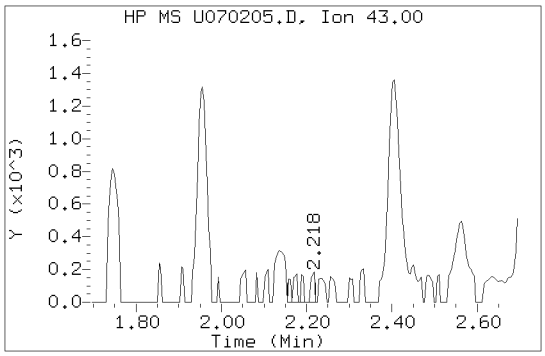
Propylene oxide ()

Reason Code:

BEFORE
MASS
43
AREA
356
HEIGHT
185
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
43
AREA
356
HEIGHT
185
10-Jul-2024
09:57
RUCHA
PATEL



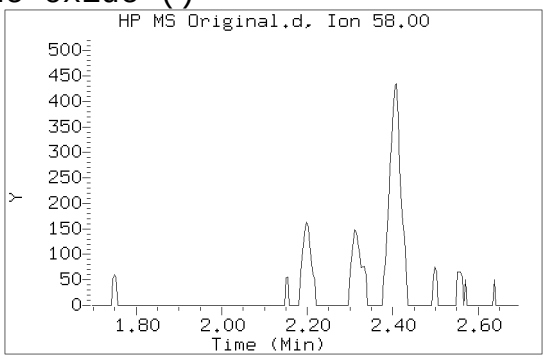
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

Propylene oxide ()

Reason Code:

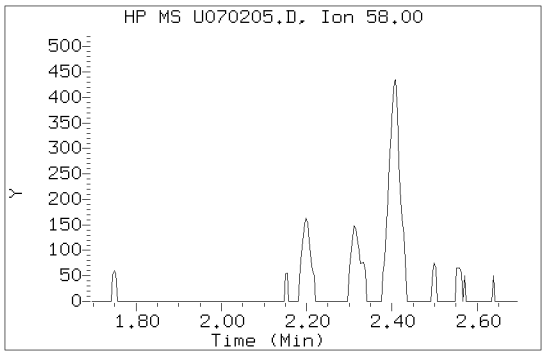
BEFORE

MASS
58
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

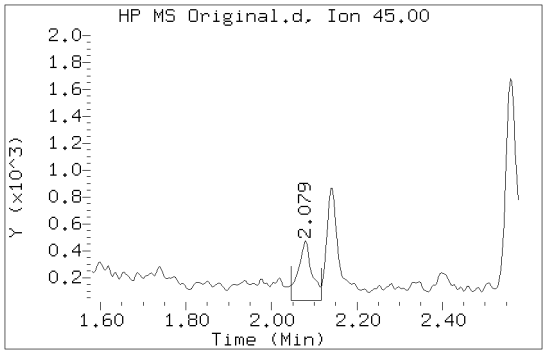


Ethanol (64-17-5)

Reason Code:

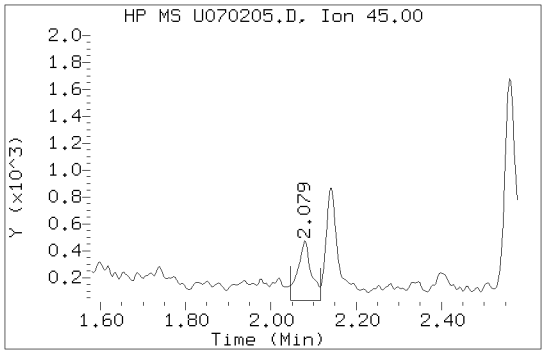
BEFORE

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AREA
1005
HEIGHT
441
10-Jul-2024
08:51
RUCHA
PATEL



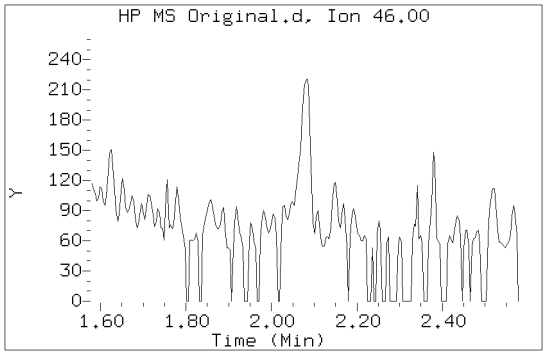
AFTER

MASS
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AREA
1005
HEIGHT
441
10-Jul-2024
09:57
RUCHA
PATEL



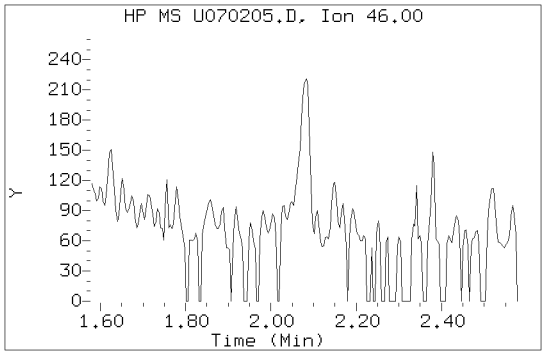
BEFORE

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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



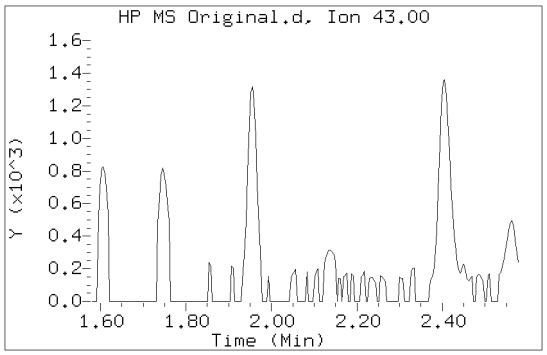
AFTER

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AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



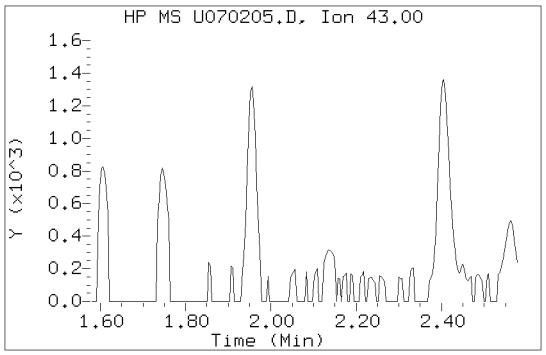
BEFORE

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AREA
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HEIGHT
0
10-Jul-2024
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RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



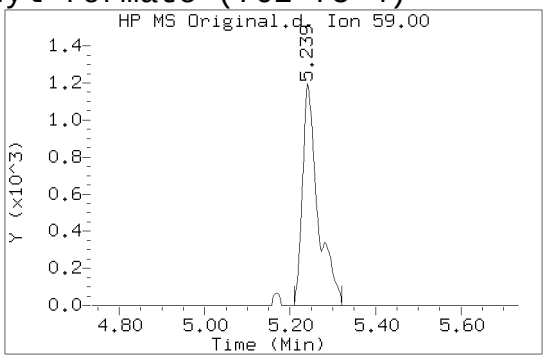
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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

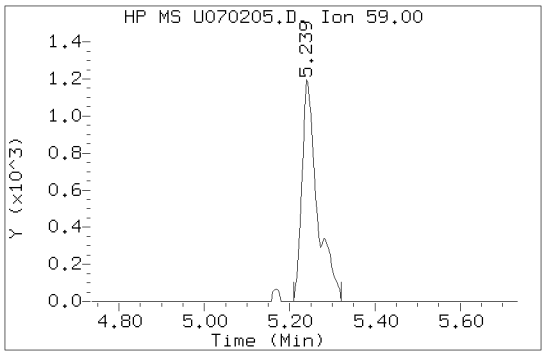
BEFORE

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3056
HEIGHT
1196
10-Jul-2024
08:51
RUCHA
PATEL



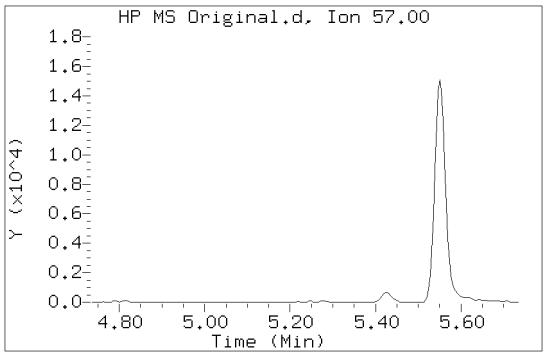
AFTER

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AREA
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HEIGHT
1196
10-Jul-2024
09:57
RUCHA
PATEL



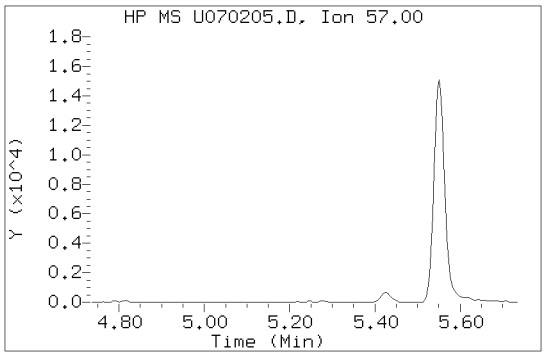
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AREA
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HEIGHT
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10-Jul-2024
08:51
RUCHA
PATEL



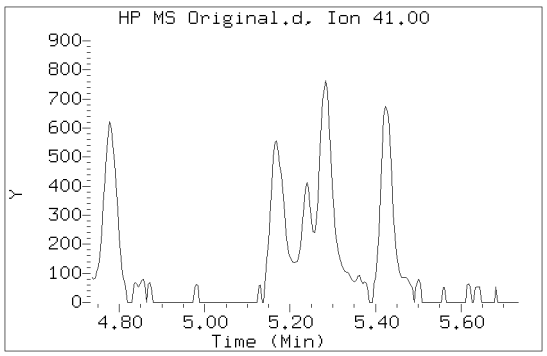
AFTER

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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL



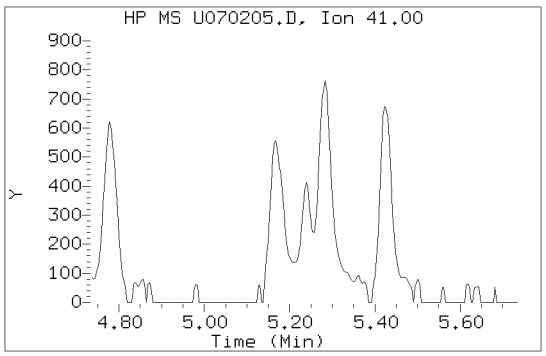
BEFORE

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PATEL



AFTER

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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

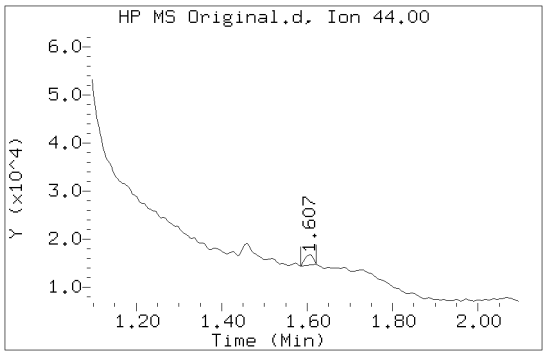


Ethylene oxide (75-21-8)

Reason Code:

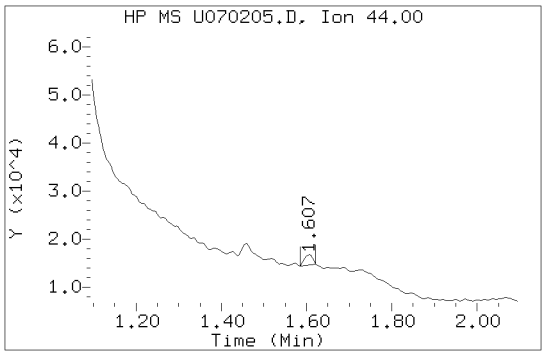
BEFORE

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AREA
2923
HEIGHT
2215
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

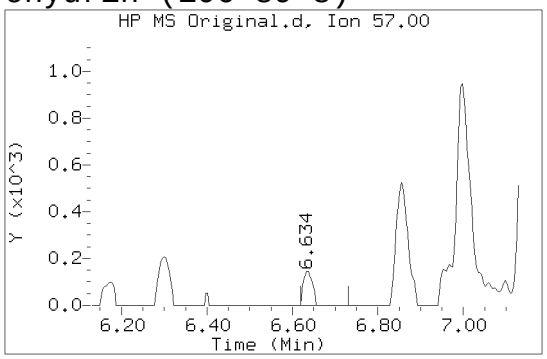
MASS
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AREA
2923
HEIGHT
2215
10-Jul-2024
09:57
RUCHA
PATEL



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

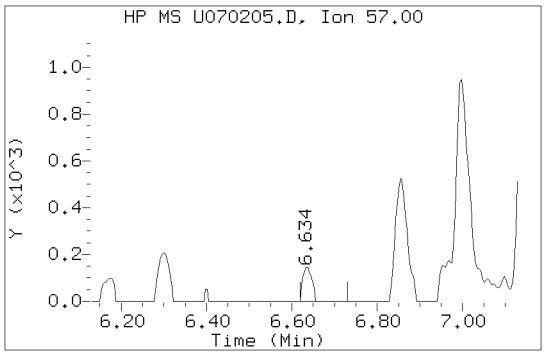
Epichlorohydrin (106-89-8)

BEFORE
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AREA
217
HEIGHT
146
10-Jul-2024
08:51
RUCHA
PATEL

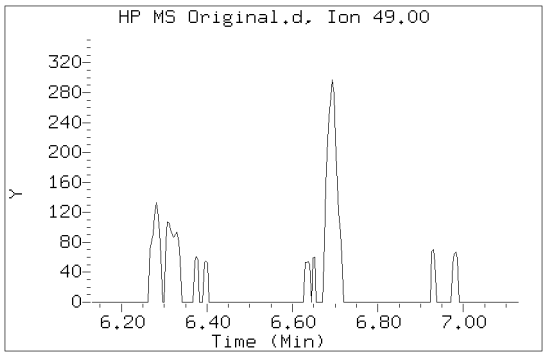


Reason Code:

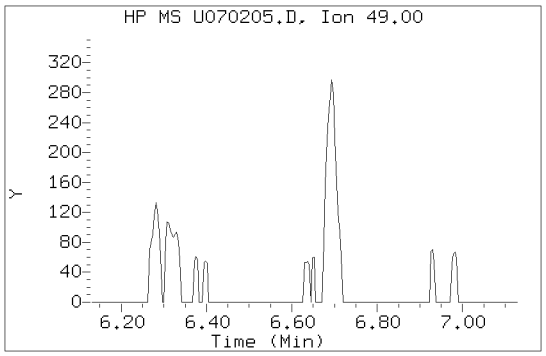
AFTER
MASS
57
AREA
217
HEIGHT
146
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
49
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL

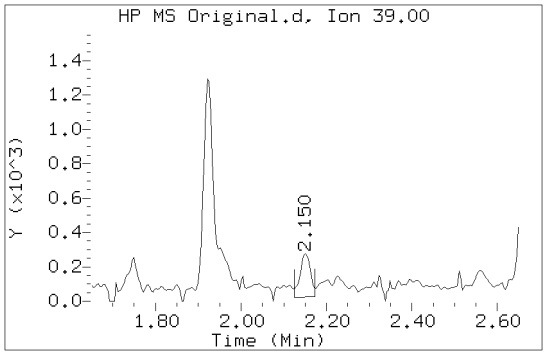


AFTER
MASS
49
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



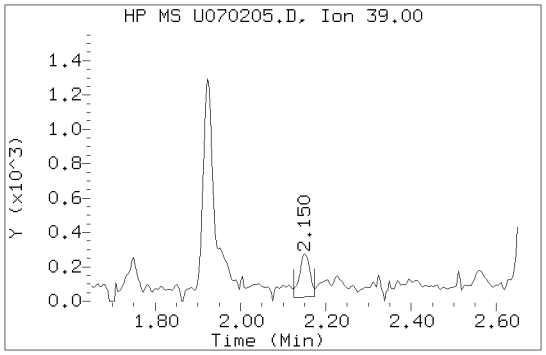
Isoprene (78-79-5)

BEFORE
MASS
39
AREA
441
HEIGHT
250
10-Jul-2024
08:51
RUCHA
PATEL

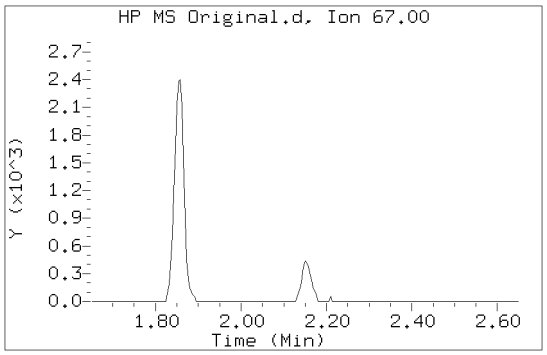


Reason Code:

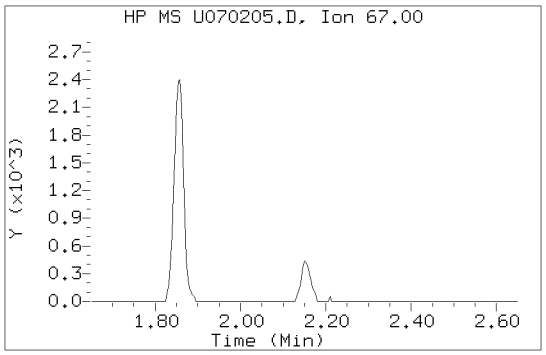
AFTER
MASS
39
AREA
441
HEIGHT
250
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
67
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
67
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



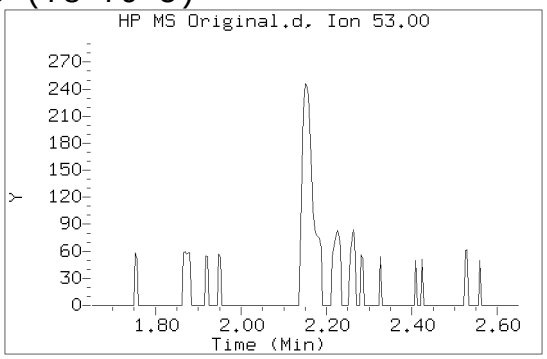
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070205.D
Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

Isoprene (78-79-5)

Reason Code:

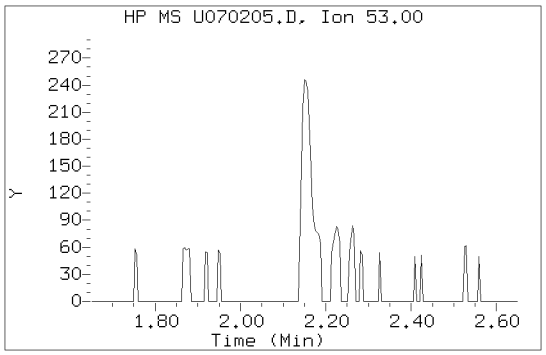
BEFORE

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53
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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09:57
RUCHA
PATEL

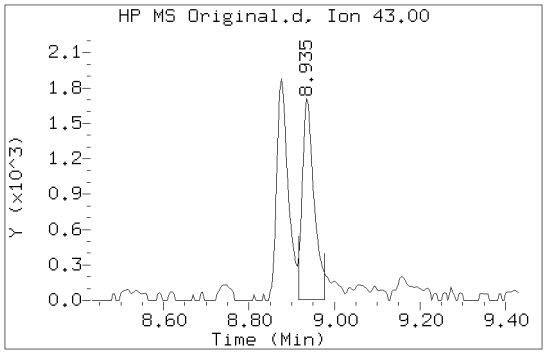


n-Amyl acetate (628-63-7)

Reason Code:

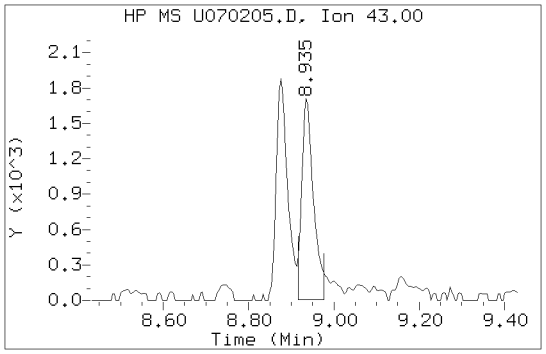
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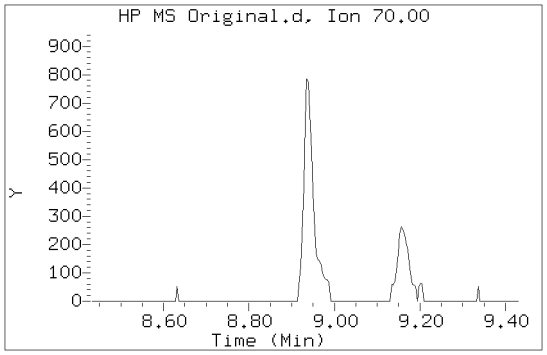
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09:57
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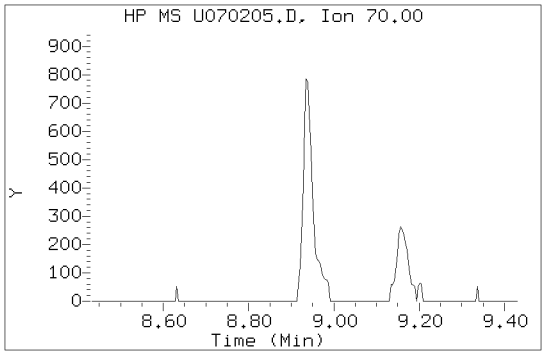
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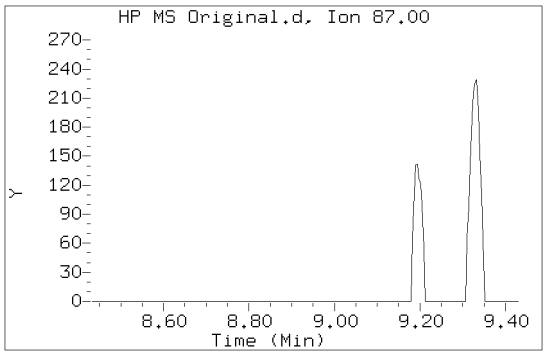
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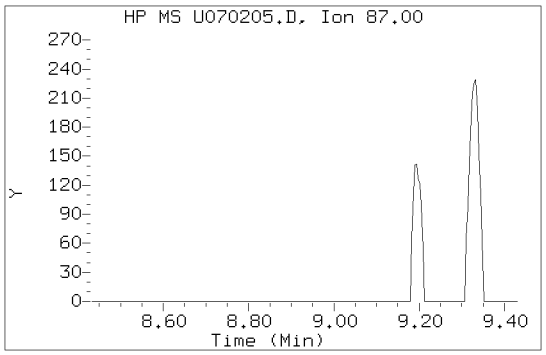
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AFTER

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09:57
RUCHA
PATEL



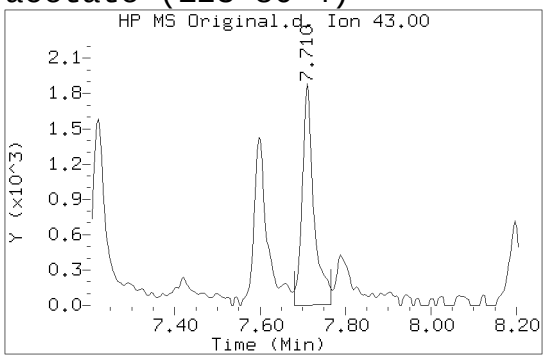
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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

Reason Code:

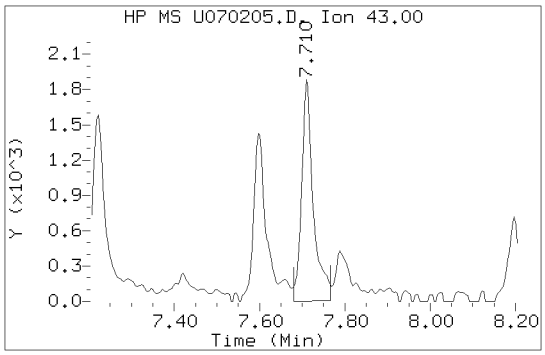
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08:51
RUCHA
PATEL



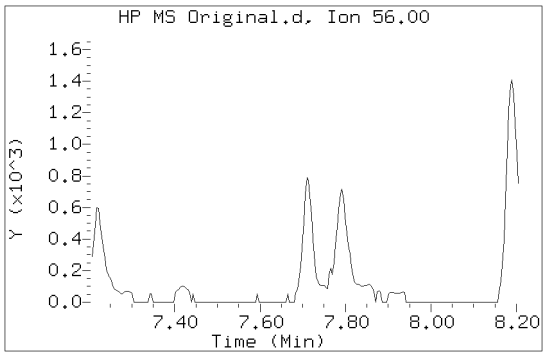
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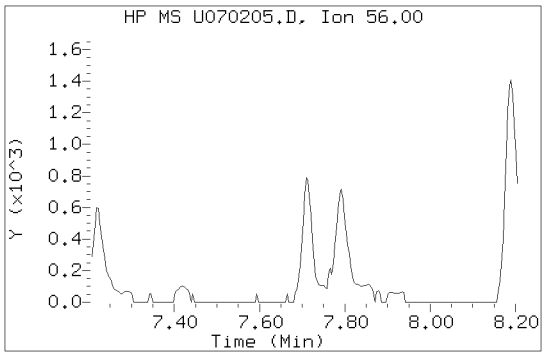
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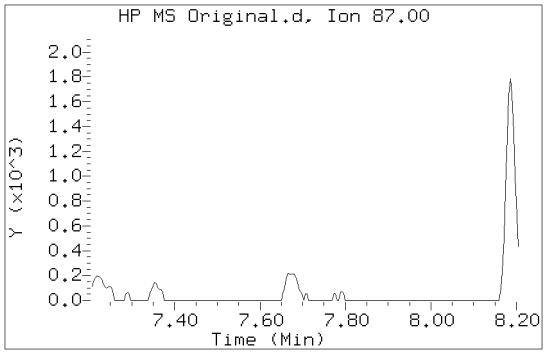
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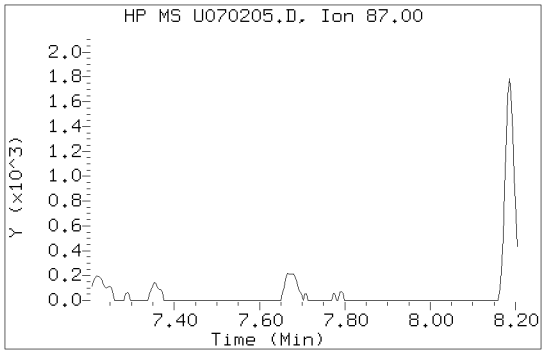
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AFTER

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10-Jul-2024
09:57
RUCHA
PATEL

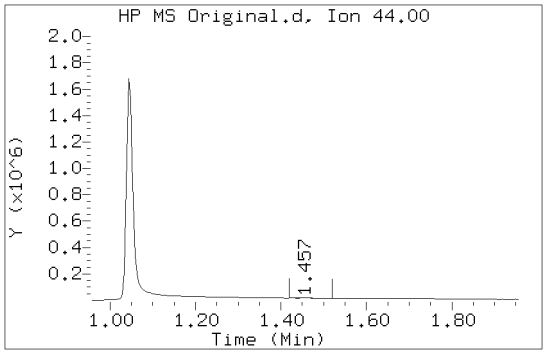


Acetaldehyde (75-07-0)

Reason Code:

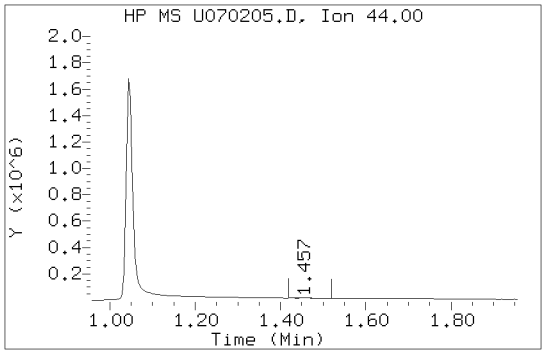
BEFORE

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2435
10-Jul-2024
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RUCHA
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AFTER

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HEIGHT
2435
10-Jul-2024
09:57
RUCHA
PATEL

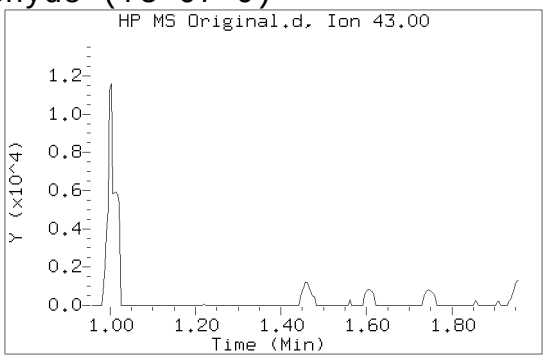


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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

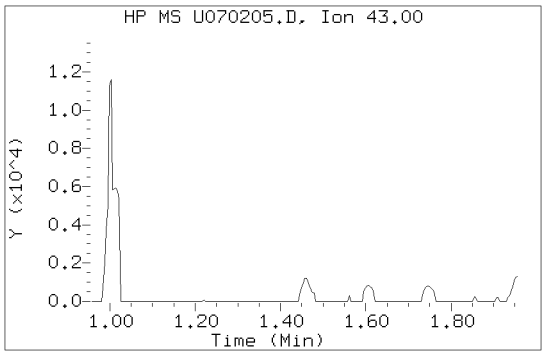
Acetaldehyde (75-07-0)

Reason Code:

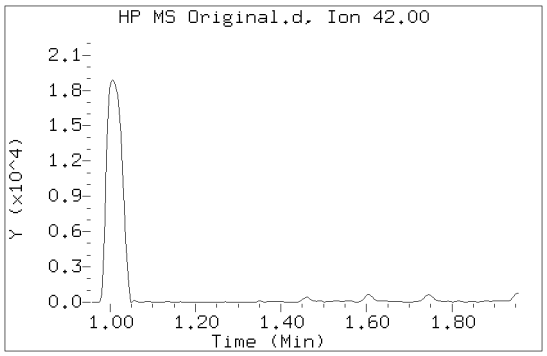
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PATEL



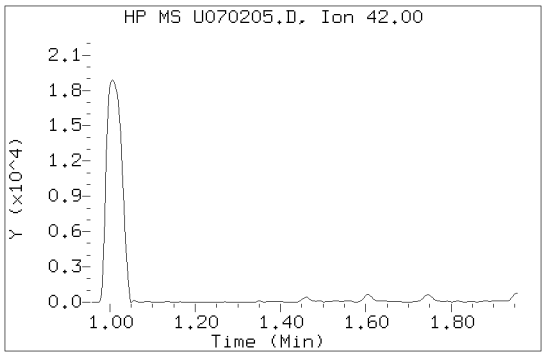
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10-Jul-2024
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BEFORE
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08:51
RUCHA
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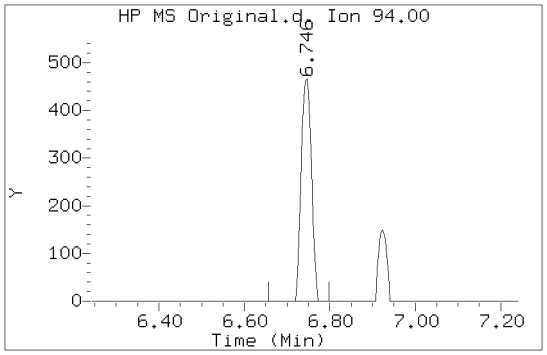
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PATEL



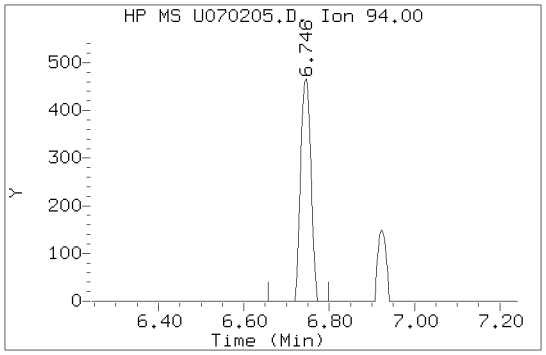
Dimethyl Disulfide (624-92-0)

Reason Code:

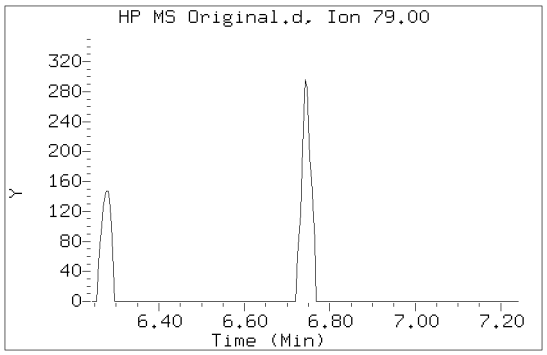
BEFORE
MASS
94
AREA
797
HEIGHT
466
10-Jul-2024
08:51
RUCHA
PATEL



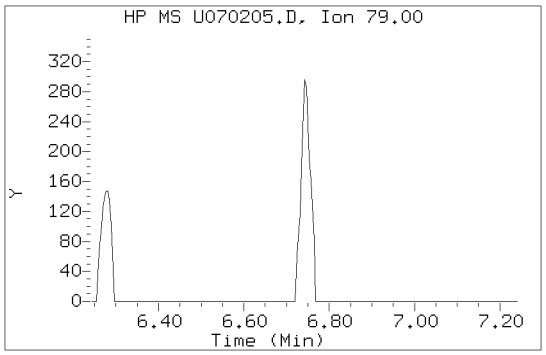
AFTER
MASS
94
AREA
797
HEIGHT
466
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
79
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
79
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



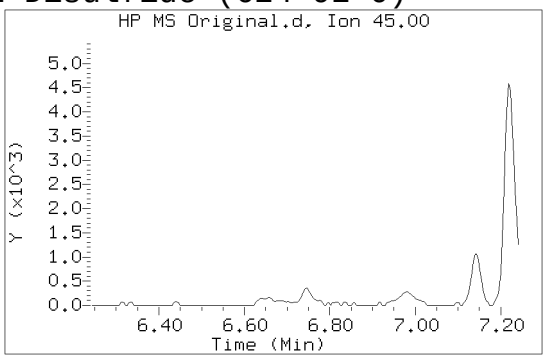
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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

Dimethyl Disulfide (624-92-0)

Reason Code:

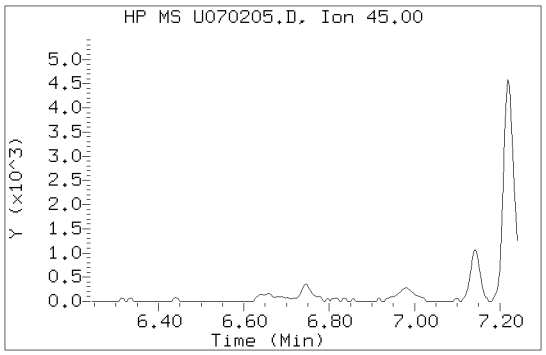
BEFORE

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10-Jul-2024
08:51
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PATEL



AFTER

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09:57
RUCHA
PATEL

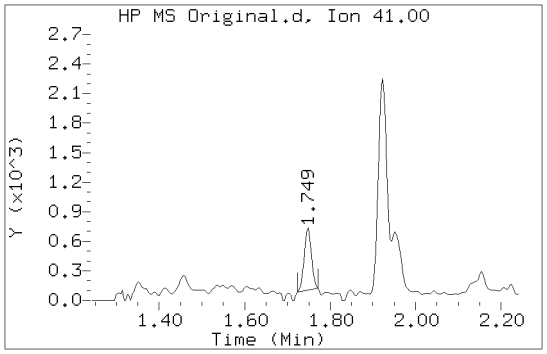


Isobutylene (115-11-7)

Reason Code:

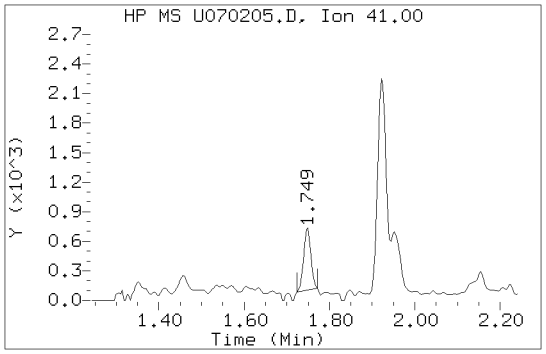
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08:51
RUCHA
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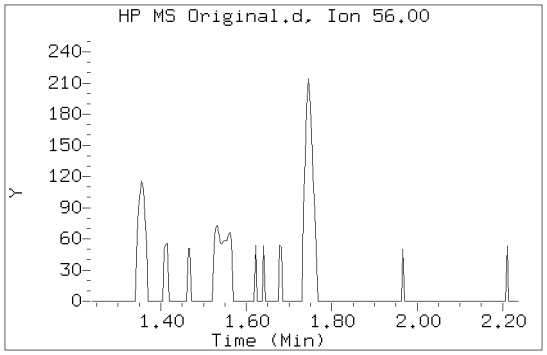
AFTER

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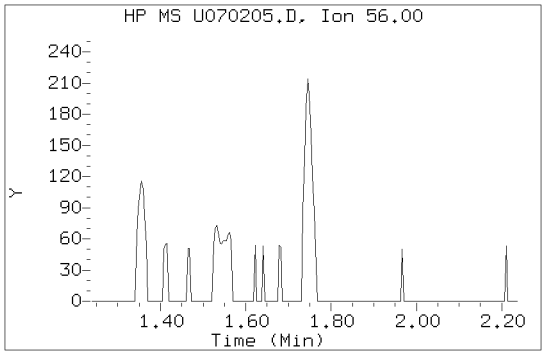
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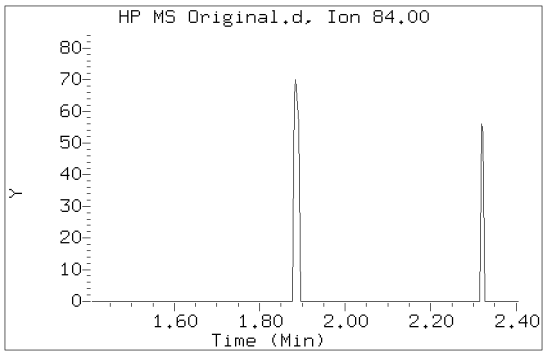
AFTER

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10-Jul-2024
09:57
RUCHA
PATEL



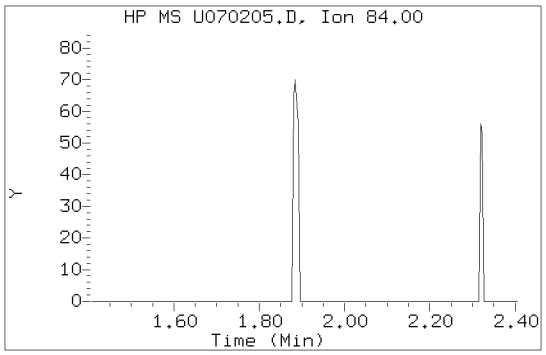
BEFORE

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10-Jul-2024
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AFTER

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RUCHA
PATEL



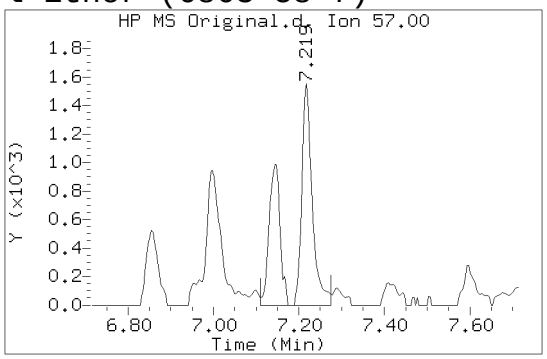
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Inj Date : 02-JUL-2024 11:13
InstruID : VOA9.i
LabSampID : VSTD002

sec-Butyl Ether (6863-58-7)

Reason Code:

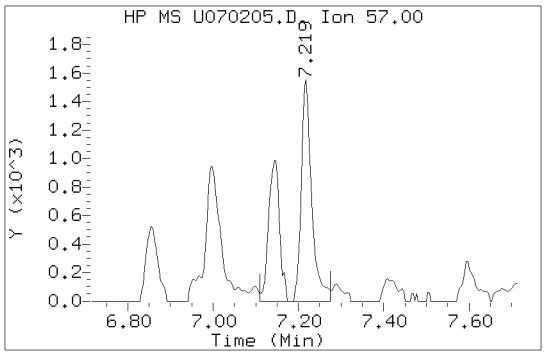
BEFORE

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AFTER

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HEIGHT
1554
10-Jul-2024
09:57
RUCHA
PATEL

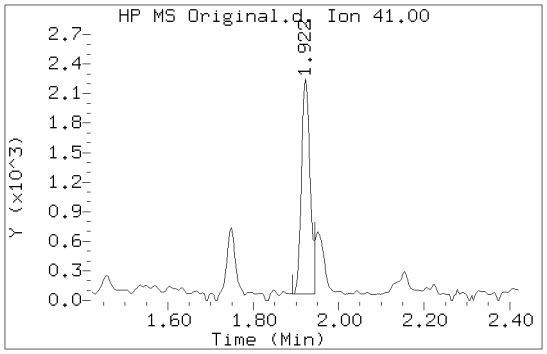


2-Chloropropene (557-98-2)

Reason Code:

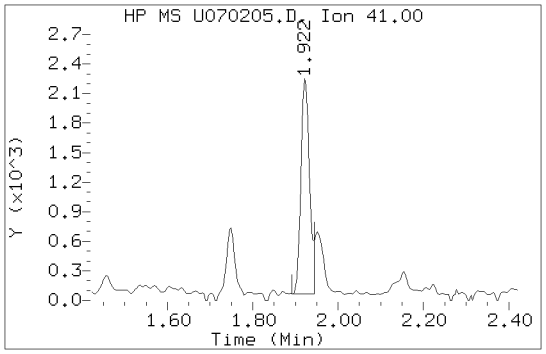
BEFORE

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2189
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08:51
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AFTER

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HEIGHT
2189
10-Jul-2024
09:57
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070206.D Page 1
Report Date: 10-Jul-2024 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070206.D
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Inj Date : 02-JUL-2024 11:34
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240702.b\8260C.m
Meth Date : 10-Jul-2024 09:57 VOA9.i Quant Type: ISTD
Cal Date : 02-JUL-2024 11:13 Cal File: U070205.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.812	(1.000)	197647	50.0000	
2	Dichlorodifluoromethane	85	1.157	1.157	(0.240)	6327	5.00000	5.96(M)
3	Chloromethane	50	1.288	1.288	(0.268)	16787	5.00000	5.74(M)
4	Propionitrile	54	4.335	4.335	(0.901)	8960	50.0000	53.03(a)
5	Vinyl Chloride	62	1.370	1.370	(0.285)	8238	5.00000	6.22(M)
6	Bromomethane	94	1.614	1.614	(0.335)	3265	5.00000	6.22
7	Chloroethane	64	1.693	1.693	(0.352)	5410	5.00000	5.65
8	Trichlorofluoromethane	101	1.884	1.884	(0.392)	9447	5.00000	6.38
9	Acrolein	56	2.255	2.255	(0.469)	715	10.0000	14.83(a)
10	Acetone	43	2.401	2.401	(0.499)	5689	10.0000	6.92
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	5267	5.00000	5.87
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	17125	100.000	104.04(a)
13	Acetonitrile	39	2.664	2.664	(0.554)	6250	50.0000	53.69(a)
14	Allyl Chloride	41	2.664	2.664	(0.554)	14702	5.00000	4.94(a)
15	Iodomethane	142	2.457	2.457	(0.511)	4716	10.0000	10.47
16	Acrylonitrile	53	3.057	3.057	(0.635)	4628	10.0000	10.84
17	Methylene Chloride	84	2.783	2.783	(0.579)	13945	5.00000	5.15
18	Methyl tert-butyl ether	73	3.068	3.068	(0.638)	14721	5.00000	5.08
19	Carbon Disulfide	76	2.510	2.510	(0.522)	28261	10.0000	11.07
20	trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	5853	5.00000	5.71

21 Vinyl Acetate	43	4.339	4.339 (0.902)	6489	10.0000	10.08(M)
22 1,1-Dichloroethane	63	3.503	3.503 (0.728)	10804	5.00000	5.40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.597	3.597	(0.748)	8360	5.00000	5.52
	24 2-Butanone	43	4.264	4.264	(0.886)	5993	10.0000	9.89
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	3928	5.00000	4.69(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	7609	5.00000	6.17
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	7271	5.00000	5.70
	28 Chloroform	83	4.564	4.564	(0.949)	11976	5.00000	5.53
	29 Bromochloromethane	128	4.459	4.459	(0.927)	3674	5.00000	5.76
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	5939	5.00000	4.64
	31 1,1,1-Trichloroethane	97	4.733	4.733	(0.984)	8979	5.00000	5.92
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	9100	5.00000	6.04
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	9636	5.00000	5.53(M)
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	7178	5.00000	6.04(M)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	7314	5.00000	4.66
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	294056	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	27085	5.00000	5.33
	38 Trichloroethene	130	5.786	5.786	(1.043)	6843	5.00000	5.64
	39 Bromodichloromethane	83	6.273	6.273	(1.130)	7746	5.00000	5.14
	40 Methyl Methacrylate	41	5.827	5.827	(1.211)	2209	5.00000	4.95(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.185)	160	10.0000	15.90(M)
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	7170	5.00000	5.33(M)
	43 2-Nitropropane	43	6.851	6.851	(1.424)	12443	5.00000	5.05
	44 Dibromomethane	93	6.116	6.116	(1.102)	4289	5.00000	5.48
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	12443	10.0000	10.03
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	7612	5.00000	5.76
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	265368	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	20104	5.00000	4.43(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	8052	5.00000	5.07(a)
	50 Toluene	91	6.978	6.978	(0.853)	26465	5.00000	5.37
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	6165	5.00000	6.02
	52 2-Hexanone	43	7.218	7.218	(0.882)	10845	10.0000	12.36
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	5260	5.00000	5.41
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	10986	5.00000	5.43
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	5475	5.00000	4.84(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	5602	5.00000	5.52
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	5577	5.00000	5.27
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	7239	5.00000	5.44
	59 Chlorobenzene	112	8.208	8.208	(1.003)	18772	5.00000	5.56
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	5597	5.00000	5.04
	61 Ethylbenzene	106	8.305	8.305	(1.015)	8246	5.00000	5.37(M)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	18052	10.0000	9.97(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	9037	5.00000	5.00
	64 Styrene	104	8.763	8.763	(1.071)	14842	5.00000	5.45
	66 Bromoform	173	8.920	8.920	(1.090)	3506	5.00000	7.04(T)
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	25641	5.00000	5.55
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	9091	5.00000	5.74
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	7843	5.00000	4.37(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	139236	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	8351	5.00000	5.41
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	1370	5.00000	5.14(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	26913	5.00000	6.14
	74 Bromobenzene	156	9.317	9.317	(0.916)	7716	5.00000	5.68
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	14961	5.00000	4.80(a)

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	18445	5.00000	5.42
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	20054	5.00000	5.21

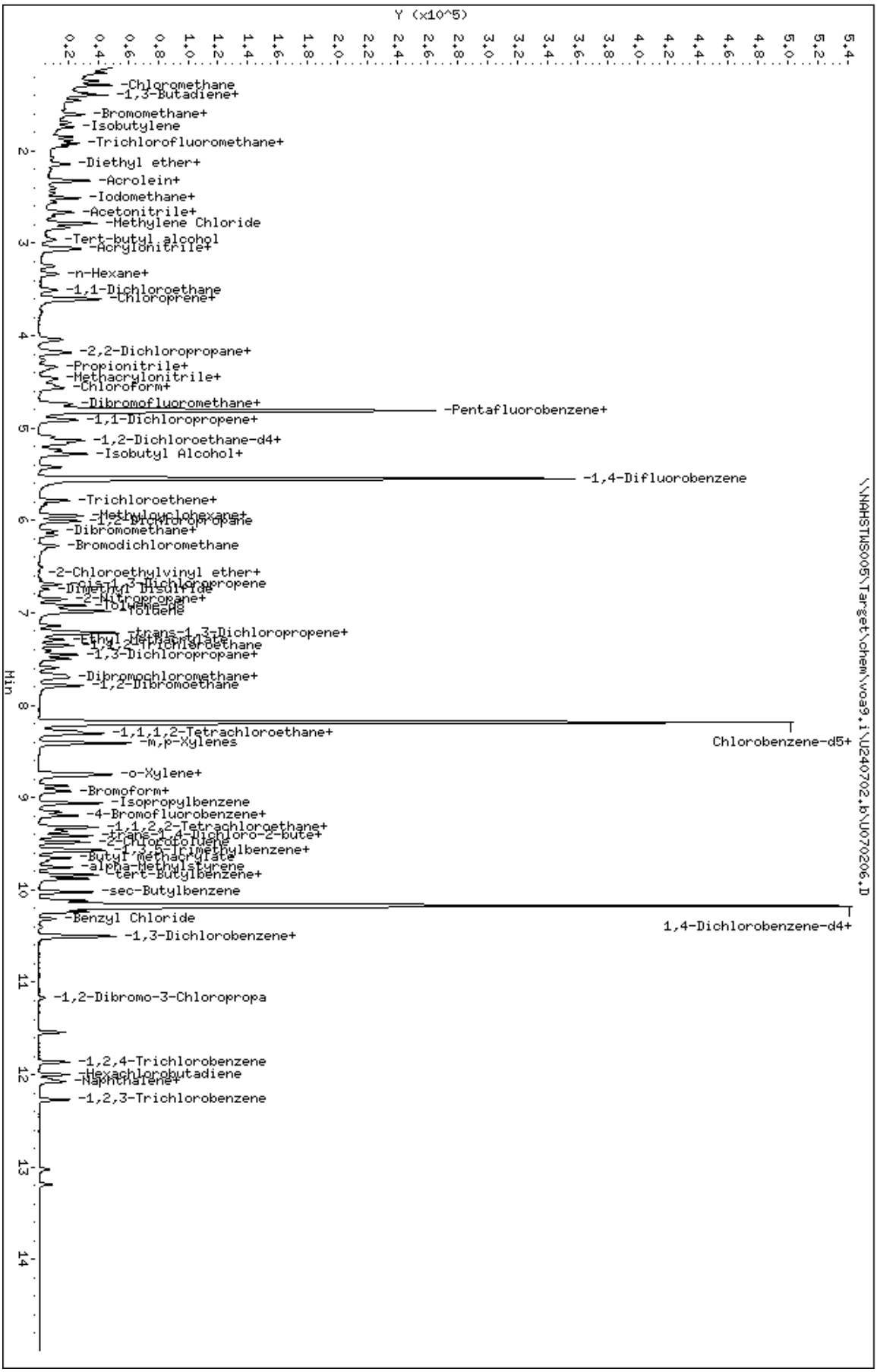
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.835	9.835	(0.967)	17262	5.00000	5.39
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	17220	5.00000	6.56
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	22809	5.00000	5.74
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	18418	5.00000	6.52
83	1,3-Dichlorobenzene	146	10.510	10.510	(1.033)	13962	5.00000	5.27
84	1,4-Dichlorobenzene	146	10.510	10.510	(1.033)	13962	5.00000	5.27
86	Benzyl Chloride	91	10.311	10.311	(1.260)	8093	5.00000	5.56
87	n-Butylbenzene	91	10.495	10.495	(1.032)	17176	5.00000	6.23
88	1,2-Dichlorobenzene	146	10.510	10.510	(1.033)	13962	5.00000	5.27
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	993	5.00000	5.71
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	6955	5.00000	4.96(a)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	3772	5.00000	6.09
92	Naphthalene	128	12.073	12.073	(1.187)	12854	5.00000	5.94
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	6541	5.00000	4.75(a)
146	Methyl acetate	43	2.705	2.705	(0.562)	5519	5.00000	5.58
138	Freon TF	101	2.326	2.326	(0.484)	5290	5.00000	6.00
141	Cyclohexane	56	4.778	4.778	(0.993)	11886	5.00000	5.60
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	2298	10.0000	11.50
147	Methylcyclohexane	55	5.947	5.947	(1.072)	13876	5.00000	5.07
135	1,4-Dioxane	88	6.165	6.165	(1.281)	1359	100.000	107.74
132	n-Butanol	56	5.827	5.827	(1.211)	2777	100.000	90.26(a)
136	n-Hexane	57	3.331	3.331	(0.692)	6231	5.00000	5.89
139	Diethyl ether	59	2.135	2.135	(0.444)	4035	5.00000	5.50
148	Tert-butyl alcohol	59	2.960	2.960	(0.615)	10060	100.000	116.31
149	Isopropyl alcohol	45	2.555	2.555	(0.531)	8185	100.000	114.84
156	Diisopropyl ether	45	3.612	3.612	(0.751)	18294	5.00000	5.28(T)
162	Butyl acrylate	55	8.736	8.736	(1.067)	10042	5.00000	4.87(a)
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	29803	5.00000	5.23
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	17157	5.00000	4.92(a)
167	Ethanol	45	2.071	2.071	(0.431)	1515	100.000	110.17
172	tert-Butyl formate	59	5.239	5.239	(1.089)	8806	10.0000	9.67(M)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	28876	100.000	93.64
140	1,3-Butadiene	54	1.393	1.393	(0.290)	7584	5.00000	5.90
182	Epichlorohydrin	57	6.626	6.626	(1.194)	633	20.0000	21.63(M)
M 94	1,2-Dichloroethylene (total)	96				13124	10.0000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	6079	5.00000	5.38
130	Ethyl Acetate	43	4.534	4.534	(0.942)	2667	5.00000	5.83(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	7075	5.00000	5.02
189	n-Butyl acetate	43	7.705	7.705	(0.941)	9377	5.00000	4.90(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	6334	100.000	110.82(a)
185	Isoprene	39	2.146	2.146	(0.446)	1844	5.00000	7.89
188	Isopropyl acetate	43	5.280	5.280	(0.951)	17319	5.00000	5.10
150	Allyl alcohol	57	3.331	3.331	(0.692)	6231	100.000	117.56
194	Acetaldehyde	44	1.453	1.453	(0.302)	5987	20.0000	21.94(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	2667	5.00000	4.45(a)
202	Isobutylene	41	1.741	1.741	(0.362)	2370	5.00000	5.36(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.236)	14301	5.00000	5.36
163	Butyl methacrylate	41	9.651	9.651	(0.949)	7733	5.00000	5.68
159	Propylene oxide	43	2.191	2.191	(0.455)	801	10.0000	9.88
178	Ethylene oxide	44	1.599	1.599	(0.332)	9694	10.0000	10.25(M)
203	2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	3863	5.00000	4.37(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	6471	5.00000	4.90(aA)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	13054	5.00000	5.42(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	10515	5.00000	5.15(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.918	1.918	(0.399)	9112	5.00000	5.82(AM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240702,b\U070206,D
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Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Page 1

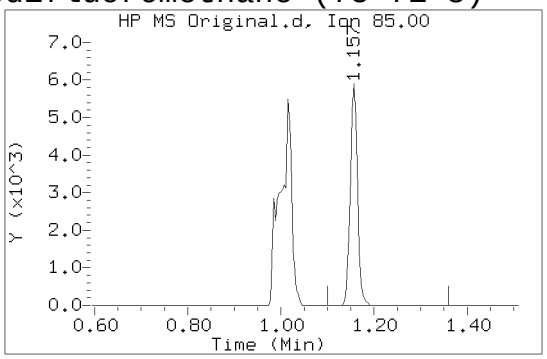
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InstruID : VOA9.i
LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

Reason Code:

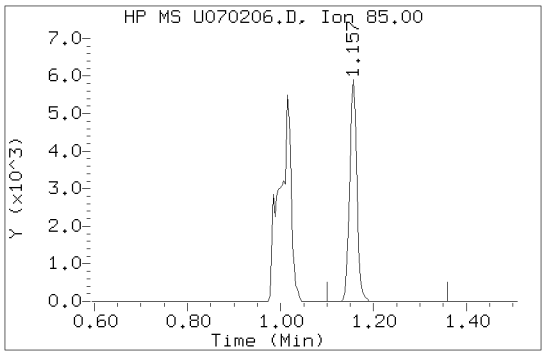
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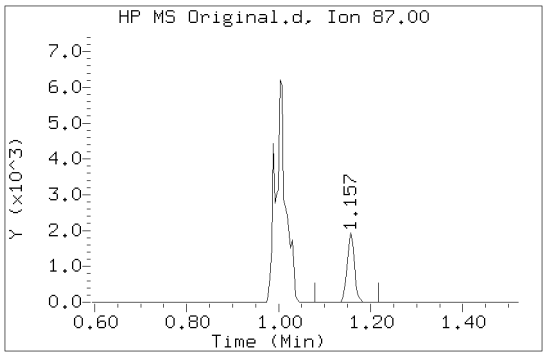
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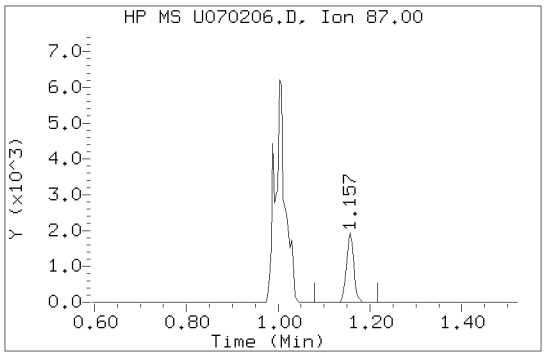
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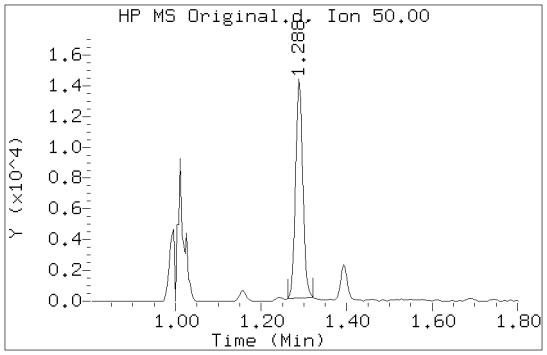


Chloromethane (74-87-3)

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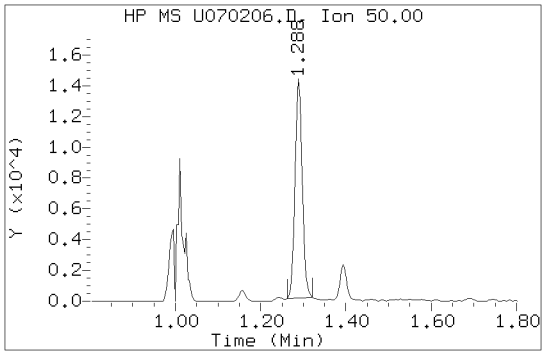
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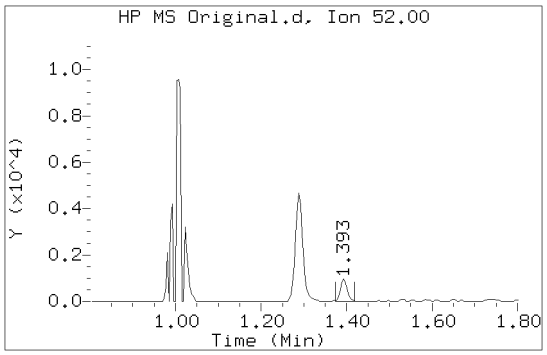
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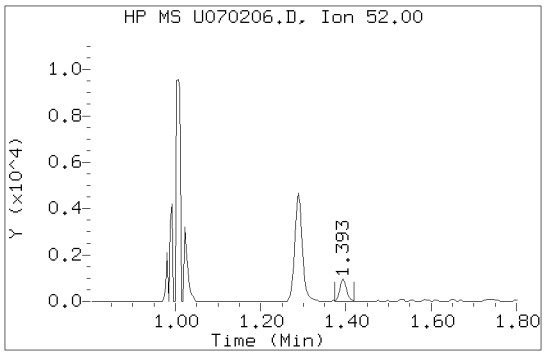
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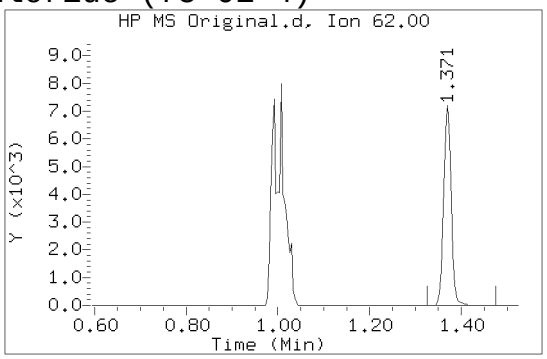
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LabSampID : VSTD005

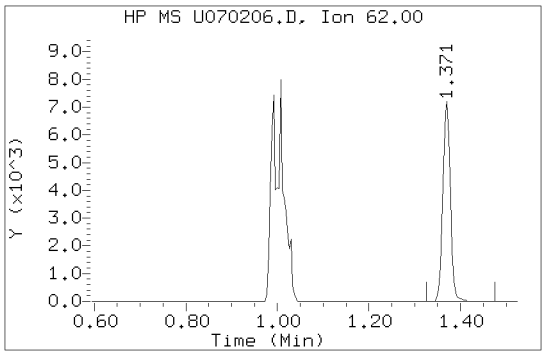
Vinyl Chloride (75-01-4)

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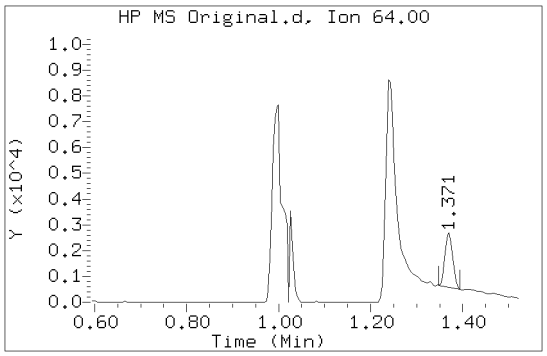


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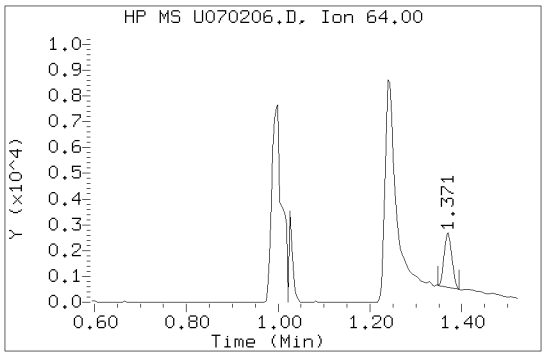
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BEFORE
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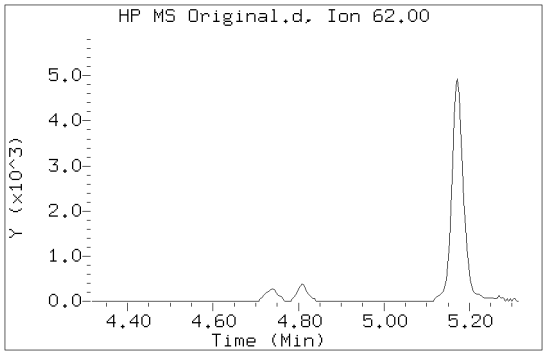


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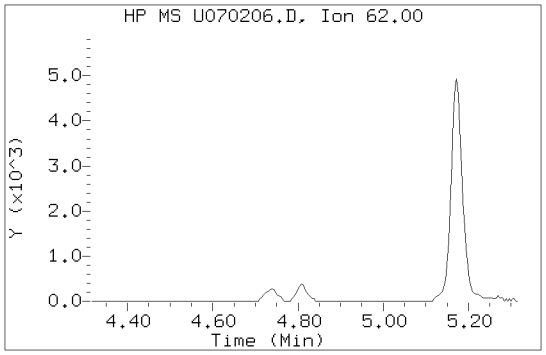
1,2-Dichloroethane (107-06-2)

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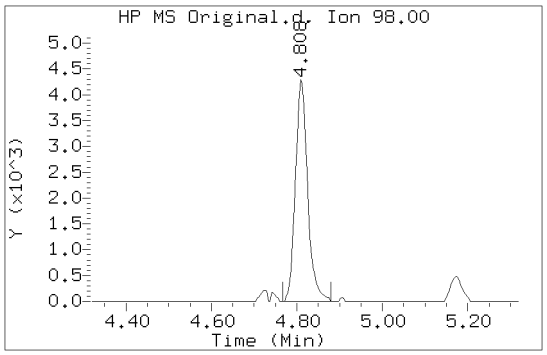


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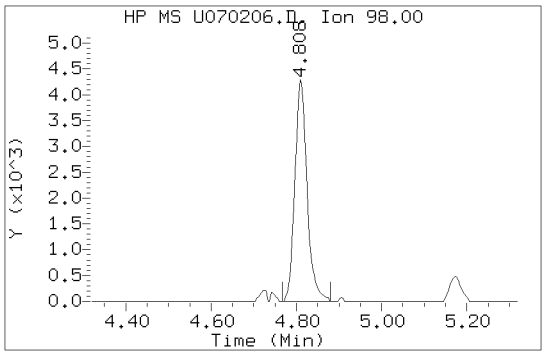
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BEFORE
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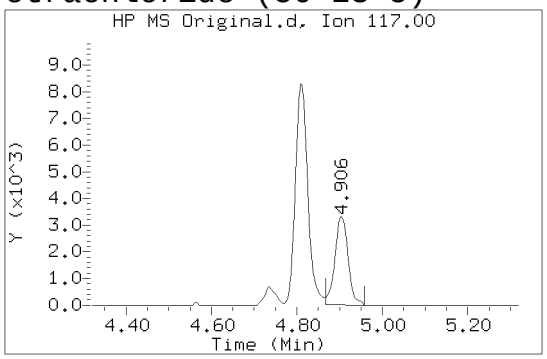
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InstruID : VOA9.i
LabSampID : VSTD005

Carbon Tetrachloride (56-23-5)

Reason Code:

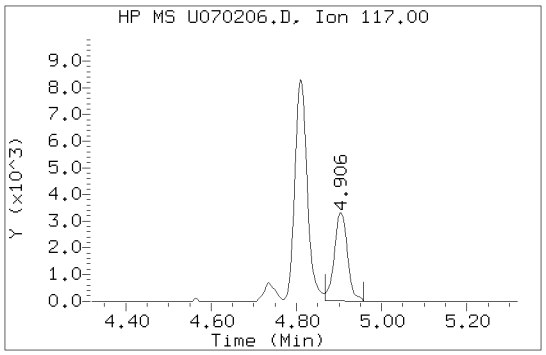
BEFORE

MASS
117
AREA
7178
HEIGHT
3320
10-Jul-2024
08:51
RUCHA
PATEL



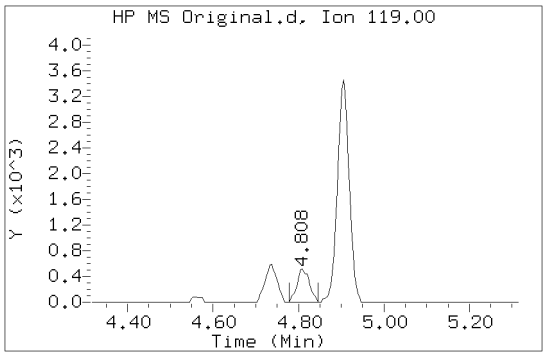
AFTER

MASS
117
AREA
7178
HEIGHT
3320
10-Jul-2024
09:57
RUCHA
PATEL



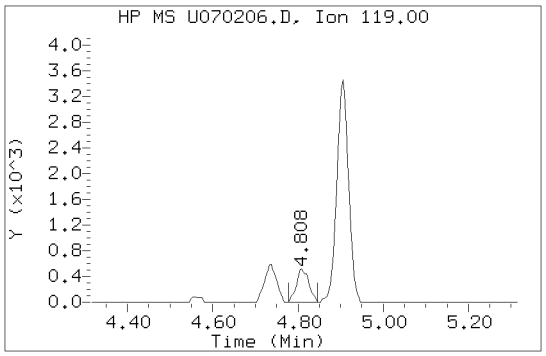
BEFORE

MASS
119
AREA
1056
HEIGHT
516
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
119
AREA
1056
HEIGHT
516
10-Jul-2024
09:57
RUCHA
PATEL

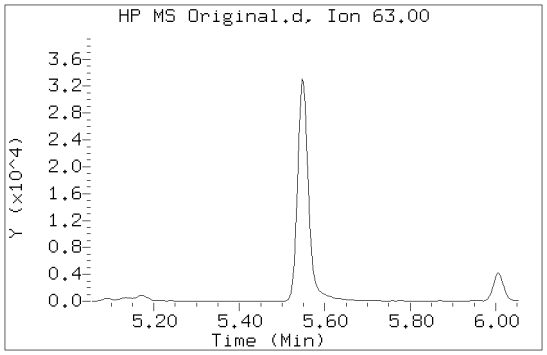


1,2-Dichloropropane (78-87-5)

Reason Code:

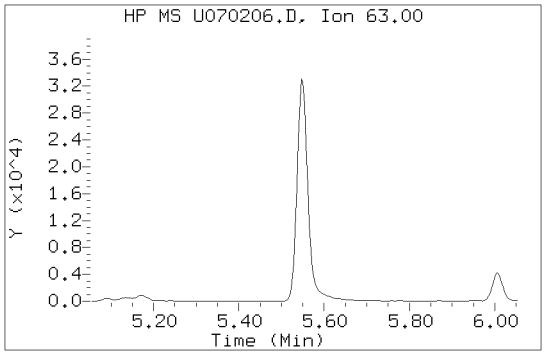
BEFORE

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63
AREA
7170
HEIGHT
4212
10-Jul-2024
08:51
RUCHA
PATEL



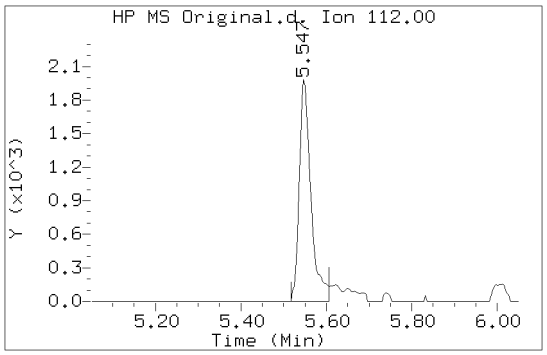
AFTER

MASS
63
AREA
7170
HEIGHT
4212
10-Jul-2024
09:57
RUCHA
PATEL



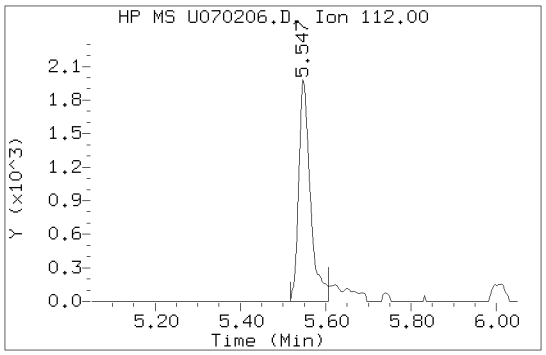
BEFORE

MASS
112
AREA
3840
HEIGHT
1982
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
112
AREA
3840
HEIGHT
1982
10-Jul-2024
09:57
RUCHA
PATEL



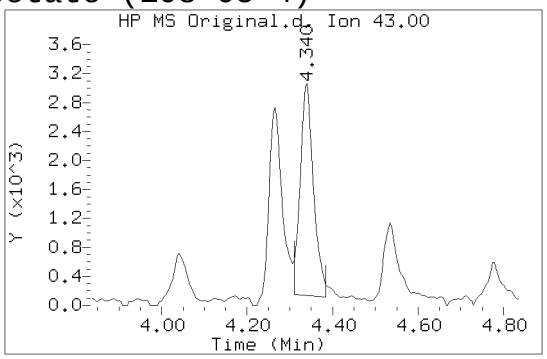
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Inj Date : 02-JUL-2024 11:34
InstruID : VOA9.i
LabSampID : VSTD005

Vinyl Acetate (108-05-4)

Reason Code:

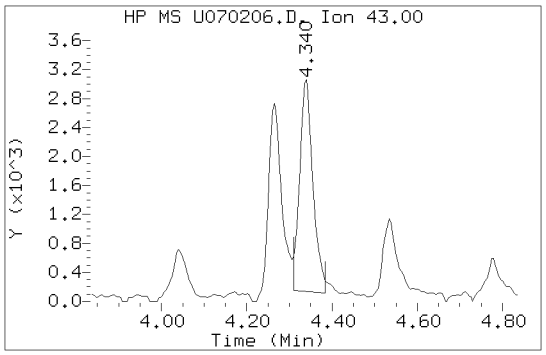
BEFORE

MASS
43
AREA
6489
HEIGHT
2926
10-Jul-2024
08:51
RUCHA
PATEL



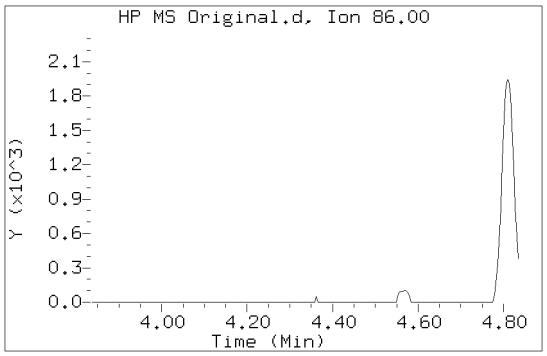
AFTER

MASS
43
AREA
6489
HEIGHT
2926
10-Jul-2024
09:57
RUCHA
PATEL



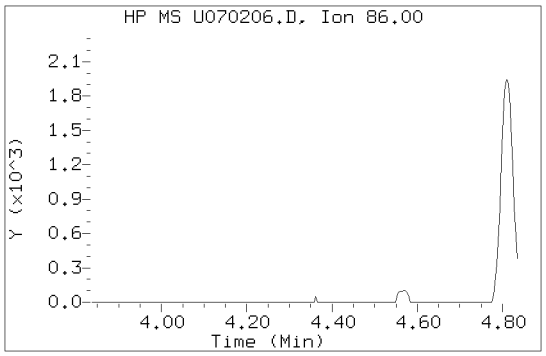
BEFORE

MASS
86
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

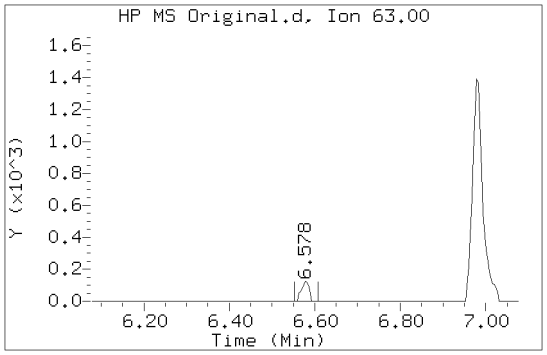


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

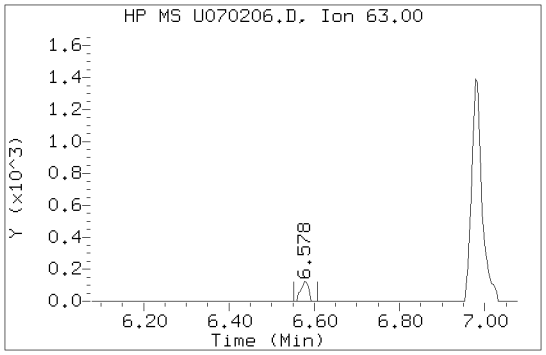
BEFORE

MASS
63
AREA
160
HEIGHT
126
10-Jul-2024
08:51
RUCHA
PATEL



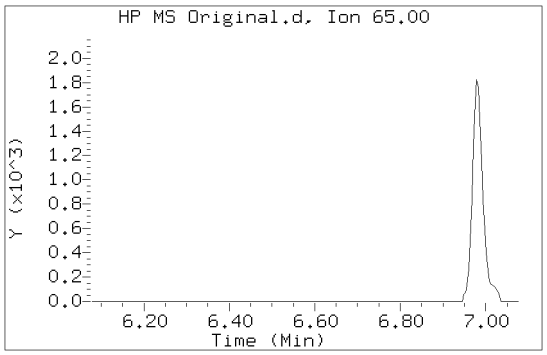
AFTER

MASS
63
AREA
160
HEIGHT
126
10-Jul-2024
09:57
RUCHA
PATEL



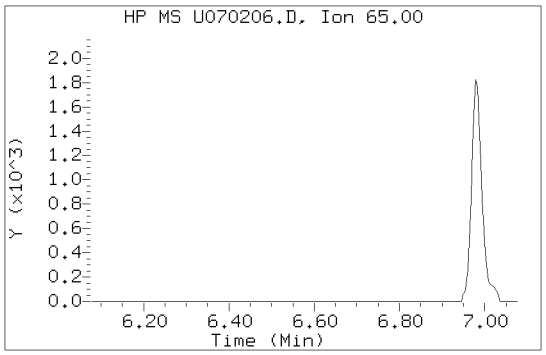
BEFORE

MASS
65
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
65
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



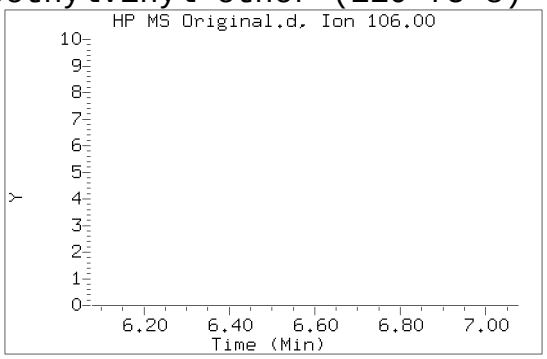
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Inj Date : 02-JUL-2024 11:34
InstruID : VOA9.i
LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

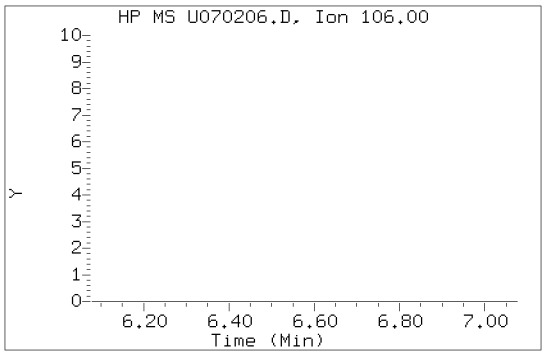
BEFORE

MASS
106
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

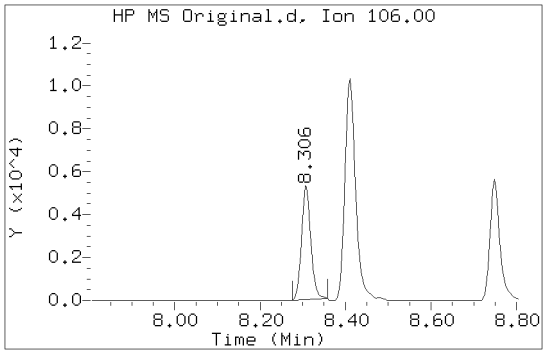


Ethylbenzene (100-41-4)

Reason Code:

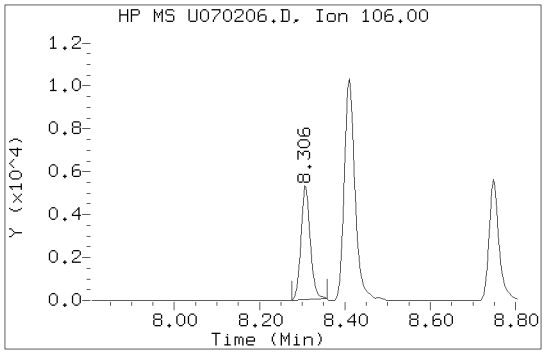
BEFORE

MASS
106
AREA
8246
HEIGHT
5315
10-Jul-2024
08:51
RUCHA
PATEL



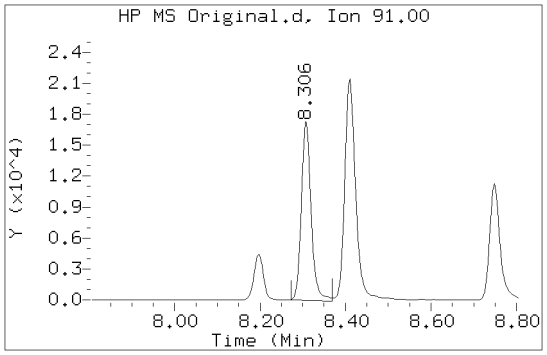
AFTER

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8246
HEIGHT
5315
10-Jul-2024
09:57
RUCHA
PATEL



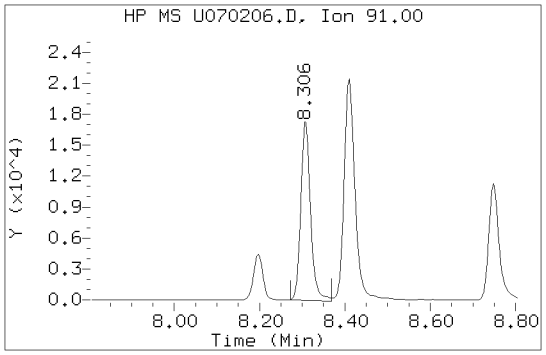
BEFORE

MASS
91
AREA
28263
HEIGHT
17313
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
91
AREA
28263
HEIGHT
17313
10-Jul-2024
09:57
RUCHA
PATEL

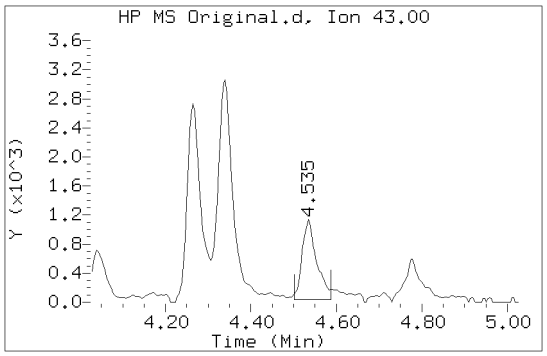


Ethyl Acetate (141-78-6)

Reason Code:

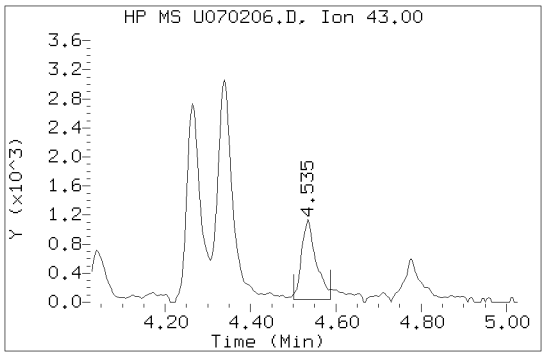
BEFORE

MASS
43
AREA
2667
HEIGHT
1106
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
43
AREA
2667
HEIGHT
1106
10-Jul-2024
09:57
RUCHA
PATEL

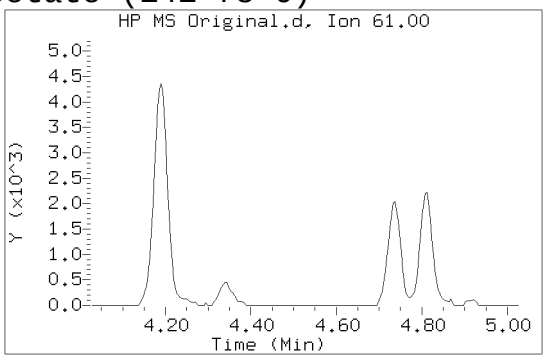


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070206.D
Inj Date : 02-JUL-2024 11:34
InstruID : VOA9.i
LabSampID : VSTD005

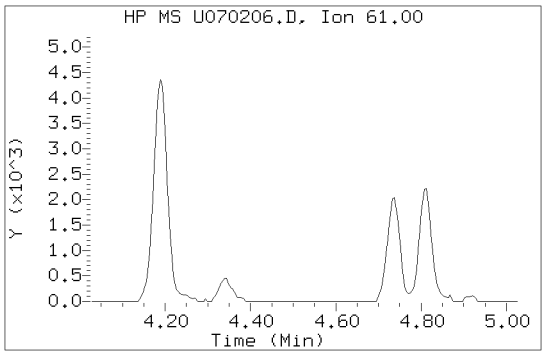
Ethyl Acetate (141-78-6)

Reason Code:

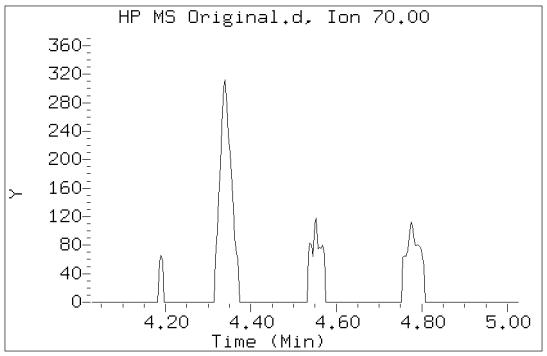
BEFORE
MASS
61
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



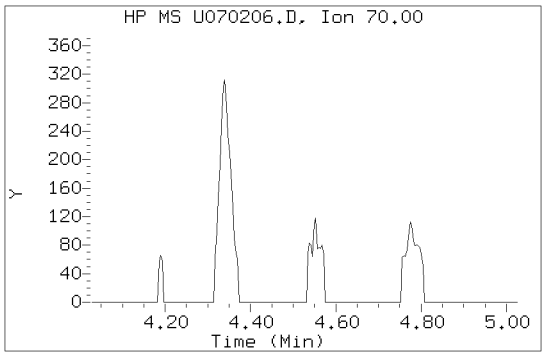
AFTER
MASS
61
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
70
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



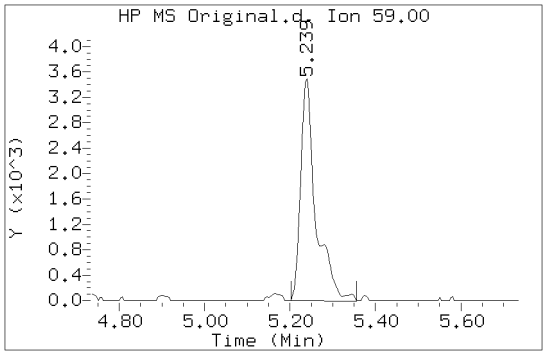
AFTER
MASS
70
AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



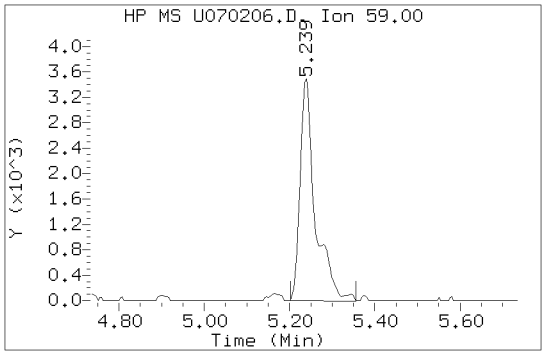
tert-Butyl formate (762-75-4)

Reason Code:

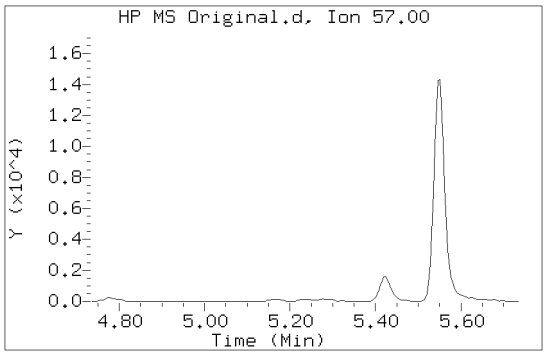
BEFORE
MASS
59
AREA
8806
HEIGHT
3491
10-Jul-2024
08:51
RUCHA
PATEL



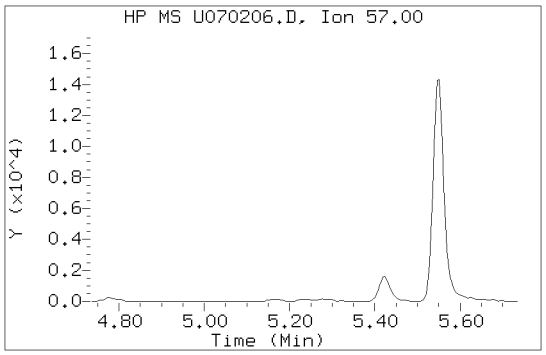
AFTER
MASS
59
AREA
8806
HEIGHT
3491
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
57
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
57
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



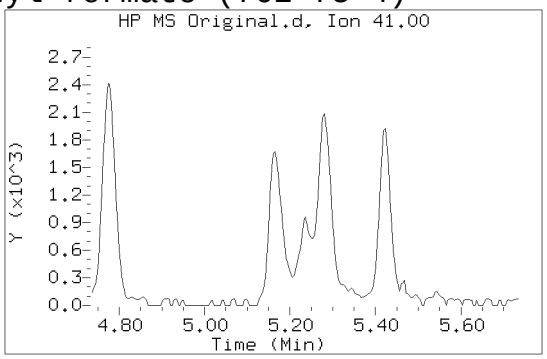
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Inj Date : 02-JUL-2024 11:34
InstruID : VOA9.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

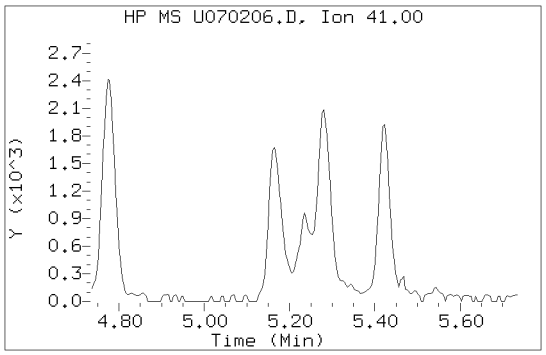
BEFORE

MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

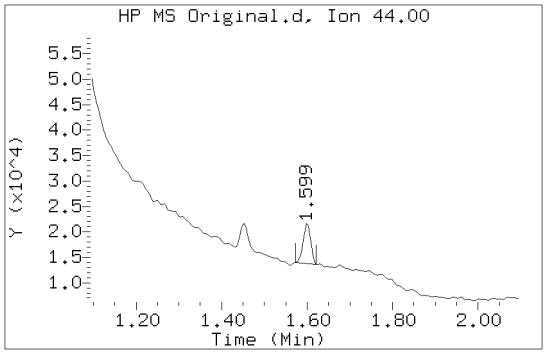


Ethylene oxide (75-21-8)

Reason Code:

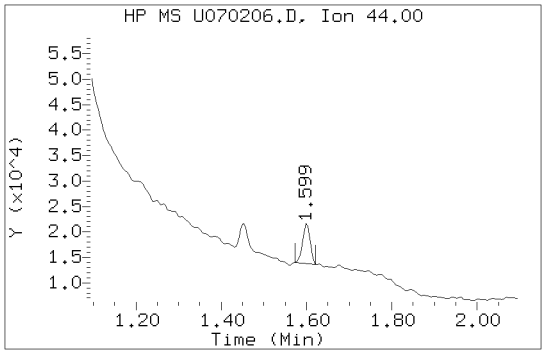
BEFORE

MASS
44
AREA
9694
HEIGHT
7825
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
44
AREA
9694
HEIGHT
7825
10-Jul-2024
09:57
RUCHA
PATEL

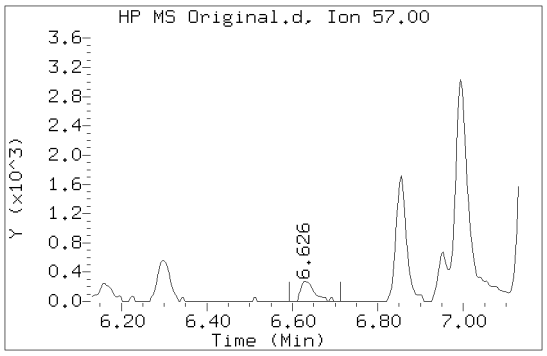


Epichlorohydrin (106-89-8)

Reason Code:

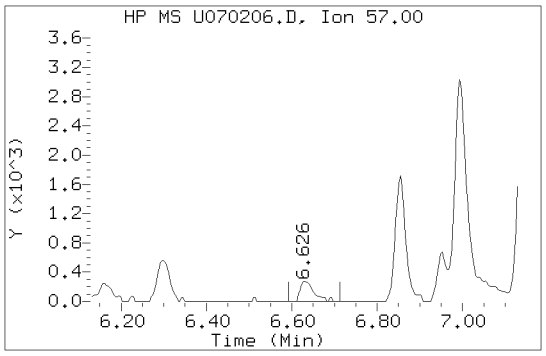
BEFORE

MASS
57
AREA
633
HEIGHT
274
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
57
AREA
633
HEIGHT
274
10-Jul-2024
09:57
RUCHA
PATEL



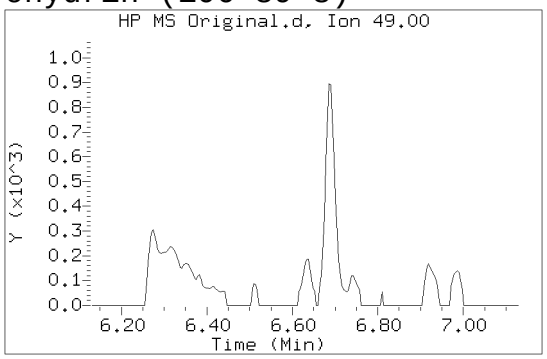
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InstruID : VOA9.i
LabSampID : VSTD005

Epichlorohydrin (106-89-8)

Reason Code:

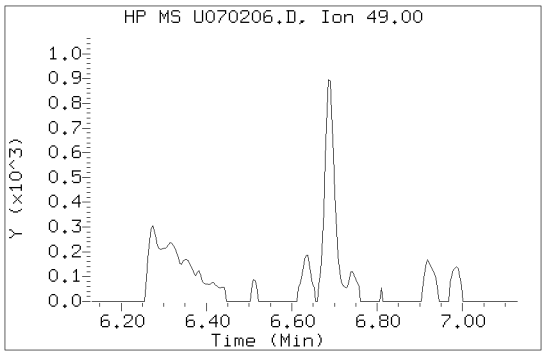
BEFORE

MASS
49
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

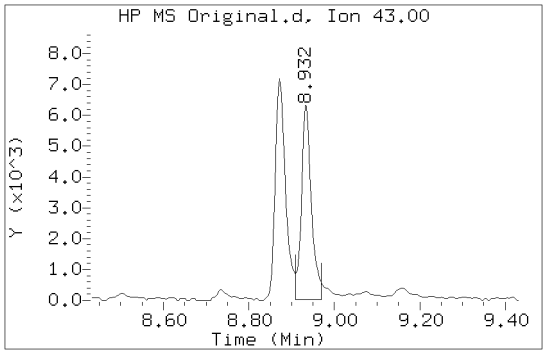


n-Amyl acetate (628-63-7)

Reason Code:

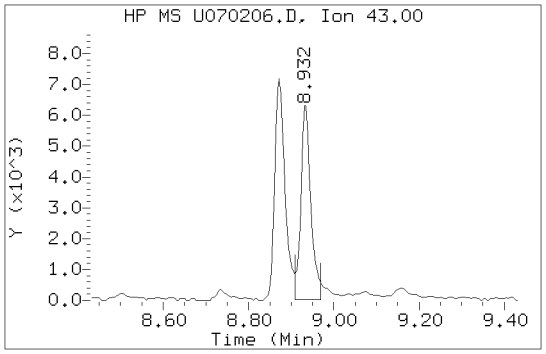
BEFORE

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43
AREA
10515
HEIGHT
6312
10-Jul-2024
08:51
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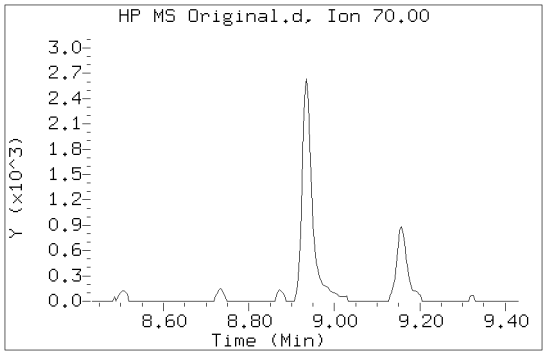
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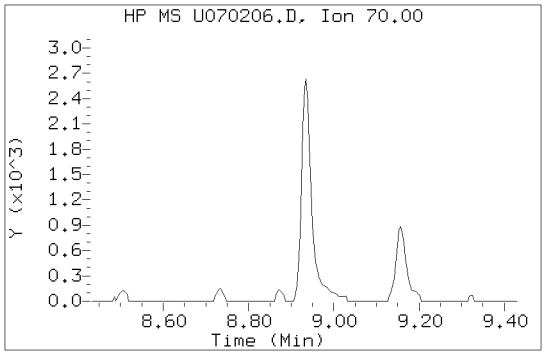
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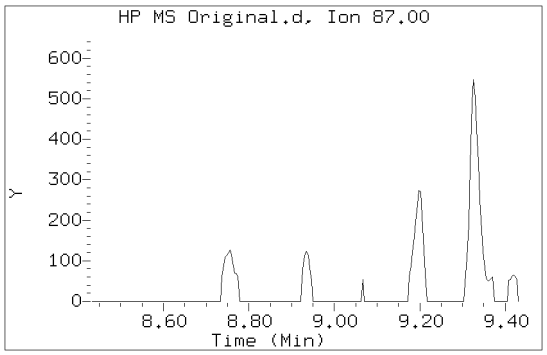
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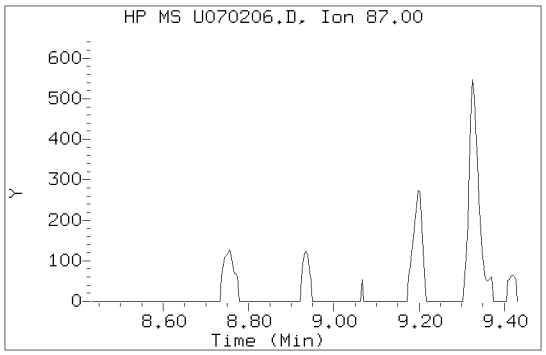
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AFTER

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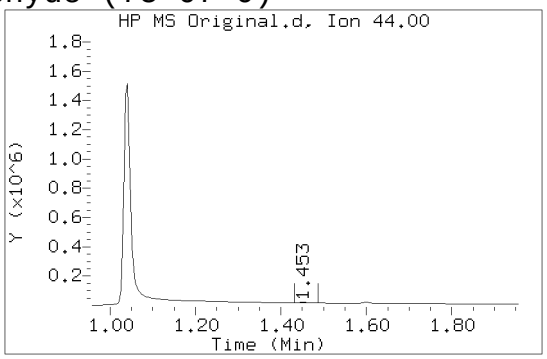
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InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

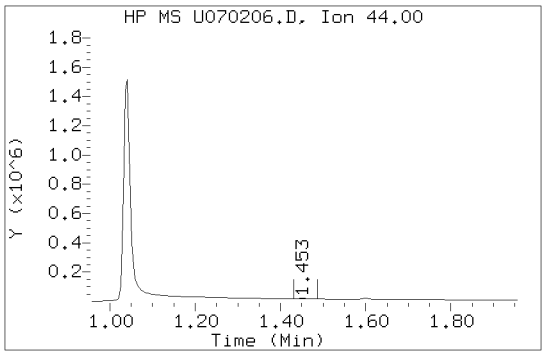
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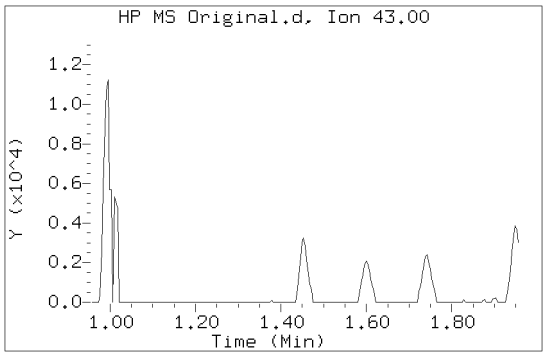
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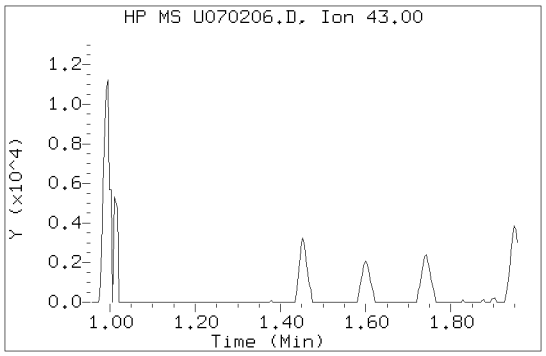
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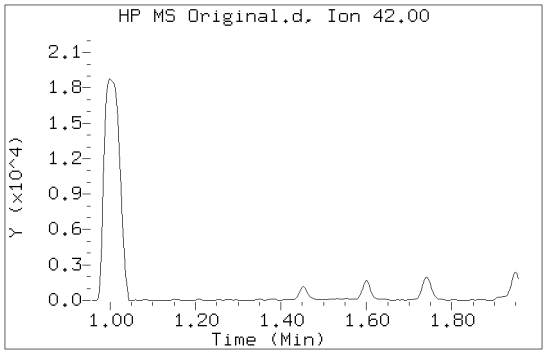
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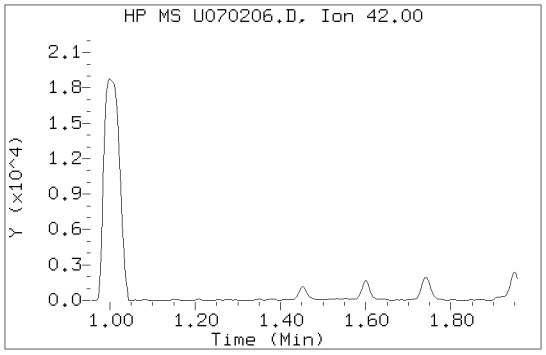
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AFTER

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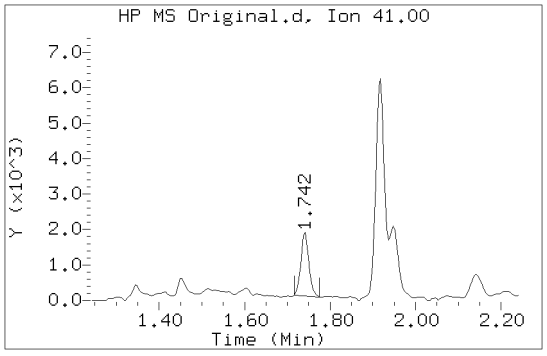


Isobutylene (115-11-7)

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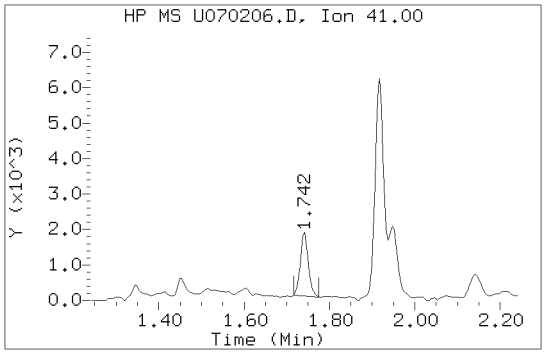
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10-Jul-2024
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RUCHA
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AFTER

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HEIGHT
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10-Jul-2024
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RUCHA
PATEL

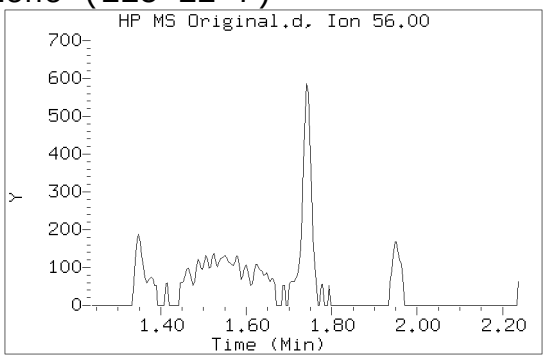


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LabSampID : VSTD005

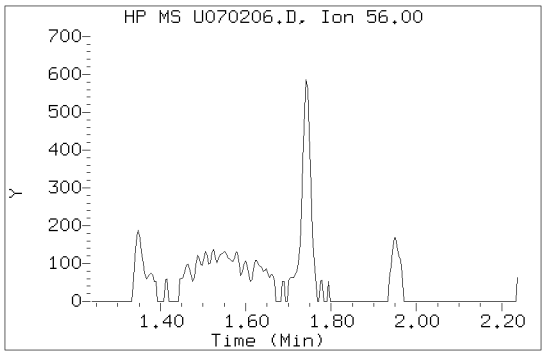
Isobutylene (115-11-7)

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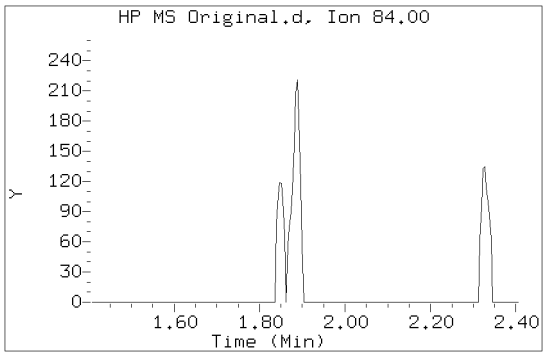
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10-Jul-2024
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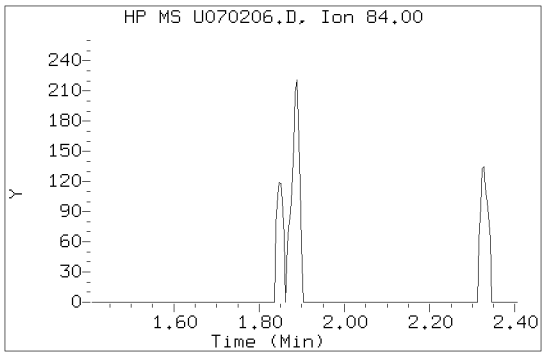
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PATEL



BEFORE
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10-Jul-2024
08:51
RUCHA
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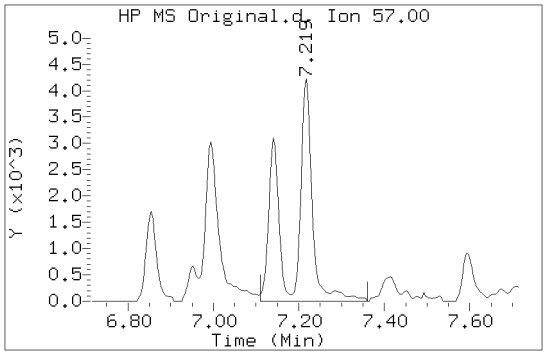
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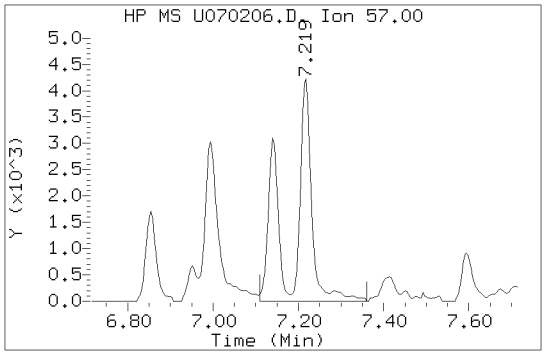
sec-Butyl Ether (6863-58-7)

Reason Code:

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08:51
RUCHA
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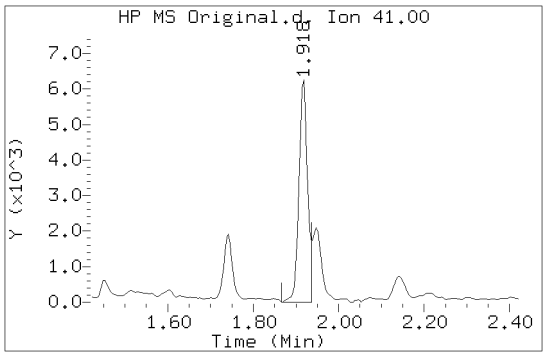
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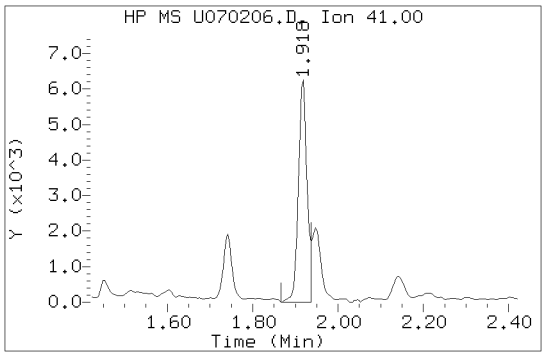
2-Chloropropene (557-98-2)

Reason Code:

BEFORE
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10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
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HEIGHT
6255
10-Jul-2024
09:57
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070207.D Page 1
Report Date: 10-Jul-2024 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070207.D
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Inj Date : 02-JUL-2024 11:56
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 10-Jul-2024 09:57 VOA9.i Quant Type: ISTD
Cal Date : 02-JUL-2024 11:34 Cal File: U070206.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	202175	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	21047	20.0000	19.72(M)
3	Chloromethane	50	1.299	1.299	(0.270)	52167	20.0000	19.12(M)
4	Propionitrile	54	4.339	4.339	(0.901)	33502	200.000	193.86(a)
5	Vinyl Chloride	62	1.382	1.382	(0.287)	26693	20.0000	19.70(M)
6	Bromomethane	94	1.621	1.621	(0.337)	9517	20.0000	19.66
7	Chloroethane	64	1.704	1.704	(0.354)	18123	20.0000	18.51
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	32761	20.0000	21.64
9	Acrolein	56	2.266	2.266	(0.471)	1854	40.0000	34.41
10	Acetone	43	2.409	2.409	(0.500)	17999	40.0000	40.67
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	18075	20.0000	19.69
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	64025	400.000	380.26(a)
13	Acetonitrile	39	2.671	2.671	(0.555)	24078	200.000	200.37(a)
14	Allyl Chloride	41	2.671	2.671	(0.555)	56295	20.0000	18.52(a)
15	Iodomethane	142	2.469	2.469	(0.513)	17620	40.0000	36.12
16	Acrylonitrile	53	3.068	3.068	(0.637)	16699	40.0000	41.56
17	Methylene Chloride	84	2.795	2.795	(0.580)	30748	20.0000	19.86
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	55532	20.0000	18.73
19	Carbon Disulfide	76	2.521	2.521	(0.524)	102006	40.0000	39.09
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	20447	20.0000	19.51

21 Vinyl Acetate	43	4.339	4.339 (0.901)	23902	40.0000	36.29(M)
22 1,1-Dichloroethane	63	3.515	3.515 (0.730)	37364	20.0000	18.28

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070207.D Page 2
Report Date: 10-Jul-2024 09:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	31645	20.0000	20.45
	24 2-Butanone	43	4.268	4.268	(0.886)	22312	40.0000	36.02
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	14733	20.0000	18.23(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	27200	20.0000	18.44
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	24686	20.0000	18.94
	28 Chloroform	83	4.572	4.572	(0.949)	41676	20.0000	18.82
	29 Bromochloromethane	128	4.470	4.470	(0.928)	12472	20.0000	19.12
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	25918	20.0000	20.09
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	32118	20.0000	18.77
	32 1,1-Dichloropropene	75	4.920	4.920	(0.886)	30221	20.0000	19.86
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	33135	20.0000	18.84(M)
	34 Carbon Tetrachloride	117	4.909	4.909	(0.884)	26188	20.0000	18.35(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	30998	20.0000	20.09
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	296985	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	94157	20.0000	18.37
	38 Trichloroethene	130	5.786	5.786	(1.042)	24324	20.0000	19.87
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	28440	20.0000	18.70
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	7783	20.0000	17.06(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	857	40.0000	32.92(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	24403	20.0000	17.96(M)
	43 2-Nitropropane	43	6.855	6.855	(1.423)	46375	20.0000	18.41
	44 Dibromomethane	93	6.120	6.120	(1.102)	14552	20.0000	18.43
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	46375	40.0000	37.29
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	31229	20.0000	17.51
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	266026	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	93927	20.0000	20.14
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	32421	20.0000	20.24(a)
	50 Toluene	91	6.982	6.982	(0.853)	100488	20.0000	20.36
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	24821	20.0000	17.33
	52 2-Hexanone	43	7.215	7.215	(0.881)	34359	40.0000	44.88
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	18842	20.0000	19.34
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	38611	20.0000	19.03
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	21246	20.0000	18.74
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	19435	20.0000	19.44
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	20549	20.0000	19.40
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	19595	20.0000	19.72
	59 Chlorobenzene	112	8.208	8.208	(1.003)	64381	20.0000	19.03
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	20918	20.0000	18.80
	61 Ethylbenzene	106	8.305	8.305	(1.015)	31931	20.0000	20.74(M)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	76514	40.0000	37.24
	63 o-Xylene	106	8.748	8.748	(1.069)	37767	20.0000	18.65
	64 Styrene	104	8.763	8.763	(1.071)	61209	20.0000	18.25
	66 Bromoform	173	8.916	8.916	(1.089)	12386	20.0000	17.01
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	96214	20.0000	18.64
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	30896	20.0000	19.11
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	34821	20.0000	19.27
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	142352	50.0000	
	71 1,2,3-Trichloropropane	75	9.363	9.363	(0.920)	29506	20.0000	18.69
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	5620	20.0000	17.74(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	109379	20.0000	19.34
	74 Bromobenzene	156	9.318	9.318	(0.916)	26678	20.0000	19.22
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	66052	20.0000	17.25

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	69206	20.0000	19.90
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	78437	20.0000	19.93

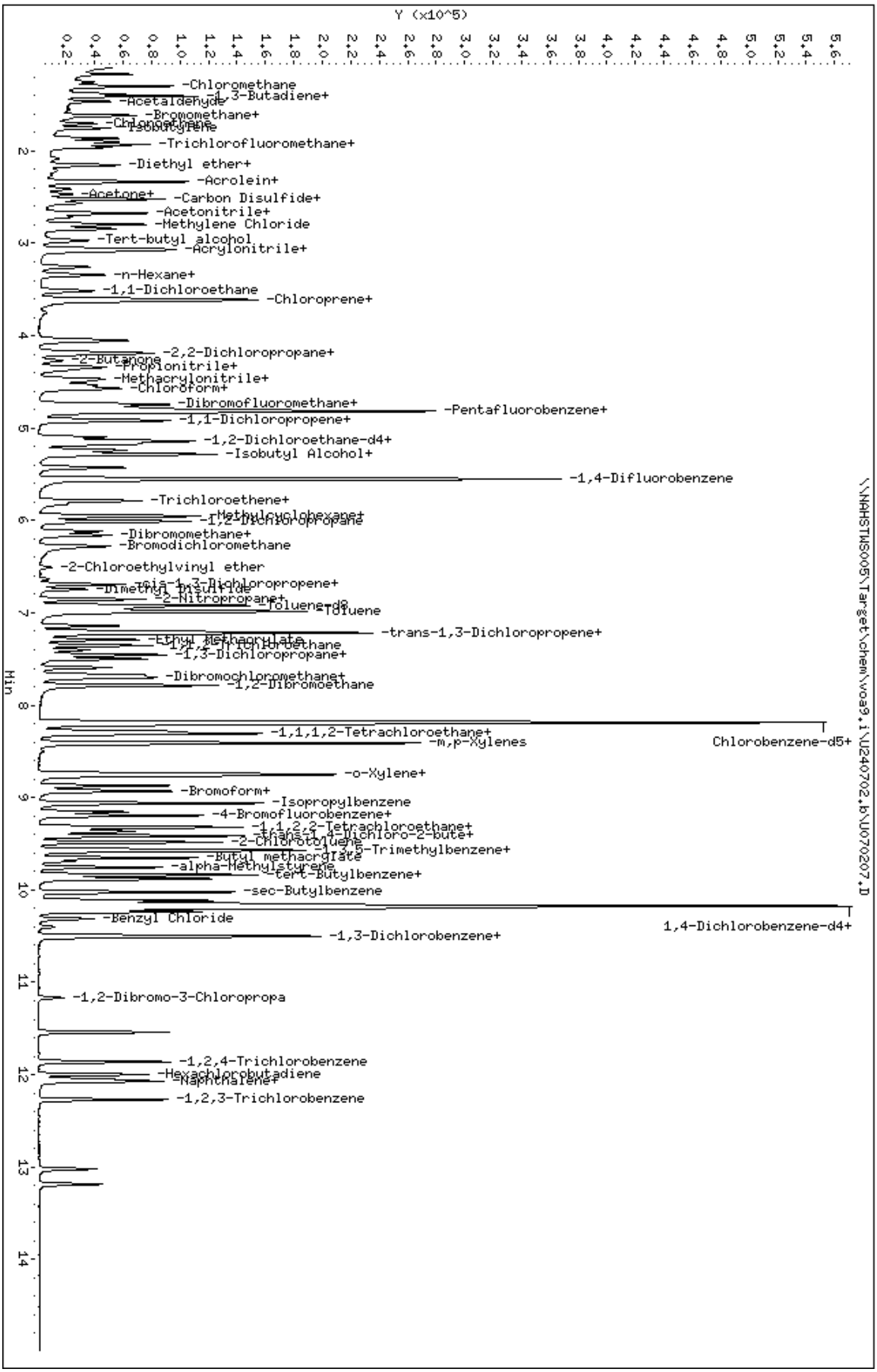
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	70302	20.0000	19.12
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	63833	20.0000	17.24
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	91648	20.0000	18.73
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	73444	20.0000	18.08
83	1,3-Dichlorobenzene	146	10.506	10.506	(1.033)	47649	20.0000	17.59
84	1,4-Dichlorobenzene	146	10.506	10.506	(1.033)	47649	20.0000	17.59
86	Benzyl Chloride	91	10.311	10.311	(1.260)	26415	20.0000	18.78
87	n-Butylbenzene	91	10.495	10.495	(1.032)	68437	20.0000	18.57
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	47649	20.0000	17.59
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	3542	20.0000	18.39
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	28674	20.0000	18.68
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	14459	20.0000	19.11
92	Naphthalene	128	12.069	12.069	(1.186)	59089	20.0000	17.09
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	27717	20.0000	19.70
146	Methyl acetate	43	2.716	2.716	(0.564)	19057	20.0000	18.83
138	Freon TF	101	2.334	2.334	(0.485)	18154	20.0000	19.12
141	Cyclohexane	56	4.782	4.782	(0.993)	35440	20.0000	19.10
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	7524	40.0000	36.59
147	Methylcyclohexane	55	5.947	5.947	(1.071)	56116	20.0000	20.32
135	1,4-Dioxane	88	6.165	6.165	(1.280)	5451	400.000	407.72
132	n-Butanol	56	5.824	5.824	(1.209)	11103	400.000	352.83(a)
136	n-Hexane	57	3.342	3.342	(0.694)	21658	20.0000	19.14
139	Diethyl ether	59	2.146	2.146	(0.446)	15738	20.0000	19.96
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	38015	400.000	406.39
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	27916	400.000	398.84(T)
156	Diisopropyl ether	45	3.620	3.620	(0.752)	70749	20.0000	19.91(T)
162	Butyl acrylate	55	8.733	8.733	(1.067)	42867	20.0000	20.48
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	111577	20.0000	21.28
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	62634	20.0000	17.57
167	Ethanol	45	2.083	2.083	(0.433)	5569	400.000	411.58
172	tert-Butyl formate	59	5.239	5.239	(1.088)	35562	40.0000	38.18
151	4-Methyl-2-pentanol	45	7.215	7.215	(1.299)	127161	400.000	408.31
140	1,3-Butadiene	54	1.404	1.404	(0.292)	26014	20.0000	19.21
182	Epichlorohydrin	57	6.630	6.630	(1.194)	3090	80.0000	75.70
M 94	1,2-Dichloroethylene (total)	96				45133	40.0000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	24047	20.0000	17.61
130	Ethyl Acetate	43	4.534	4.534	(0.942)	8541	20.0000	22.04(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	26808	20.0000	18.59
189	n-Butyl acetate	43	7.706	7.706	(0.941)	37309	20.0000	19.45
134	Cyclohexanone	55	9.153	9.153	(0.900)	25027	400.000	428.31(a)
185	Isoprene	39	2.158	2.158	(0.448)	4211	20.0000	17.90
188	Isopropyl acetate	43	5.284	5.284	(0.951)	64486	20.0000	18.83
150	Allyl alcohol	57	3.342	3.342	(0.694)	21658	400.000	382.65
194	Acetaldehyde	44	1.464	1.464	(0.304)	19004	80.0000	68.09(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	14269	20.0000	17.40
202	Isobutylene	41	1.753	1.753	(0.364)	9121	20.0000	19.72(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	56116	20.0000	20.58
163	Butyl methacrylate	41	9.651	9.651	(0.949)	33603	20.0000	24.14
159	Propylene oxide	43	2.203	2.203	(0.457)	2882	40.0000	43.07
178	Ethylene oxide	44	1.610	1.610	(0.334)	34021	40.0000	35.19(M)
203	2-Ethylhexyl Acrylate	55	12.047	12.047	(1.184)	20064	20.0000	17.55
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	27627	20.0000	20.90(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	47623	20.0000	19.75(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	42514	20.0000	20.79

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.929	1.929	(0.401)	33516	20.0000	20.95(AM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070207.D
Date : 02-JUL-2024 11:56
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

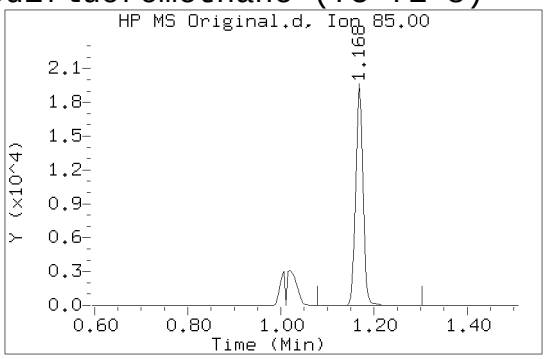
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Inj Date : 02-JUL-2024 11:56
InstruID : VOA9.i
LabSampID : VSTD020

Dichlorodifluoromethane (75-71-8)

Reason Code:

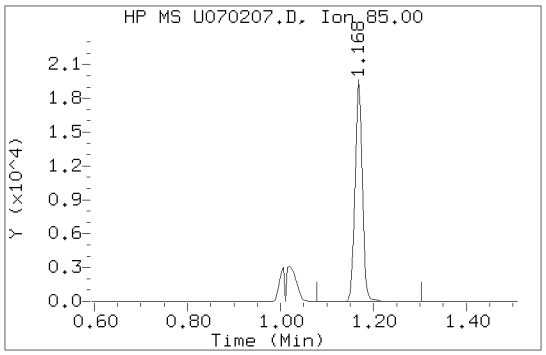
BEFORE

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HEIGHT
19648
10-Jul-2024
08:51
RUCHA
PATEL



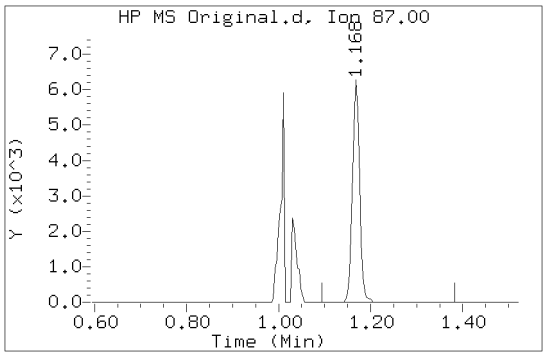
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09:57
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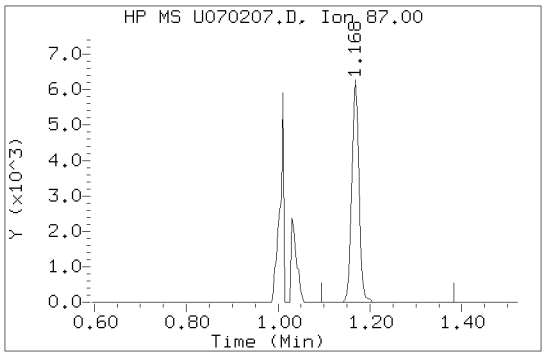
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AREA
6836
HEIGHT
6275
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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AREA
6836
HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL

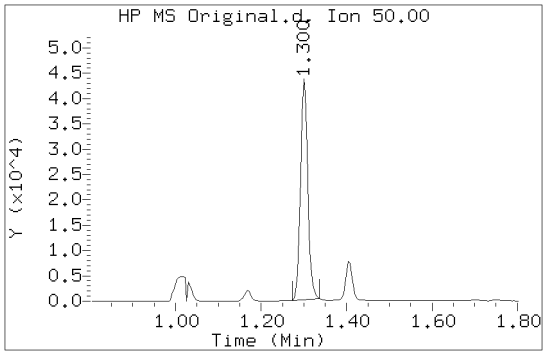


Chloromethane (74-87-3)

Reason Code:

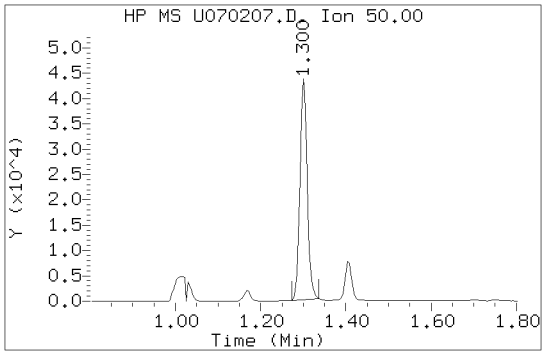
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10-Jul-2024
08:51
RUCHA
PATEL



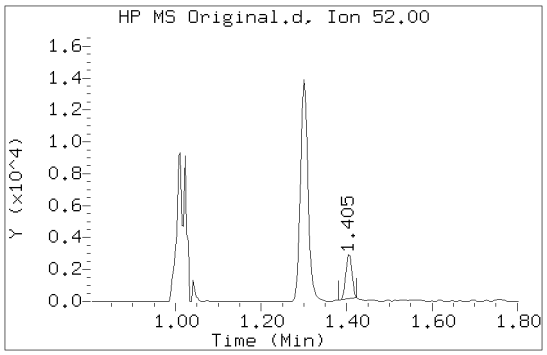
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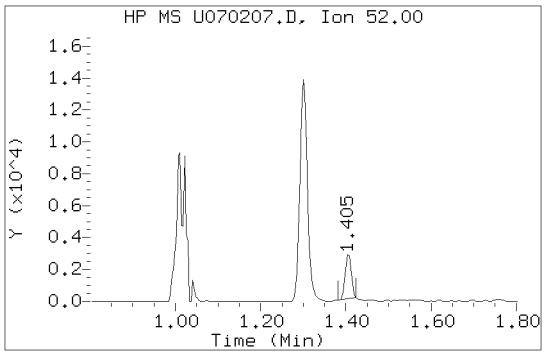
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10-Jul-2024
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RUCHA
PATEL



AFTER

MASS
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2789
HEIGHT
2795
10-Jul-2024
09:57
RUCHA
PATEL



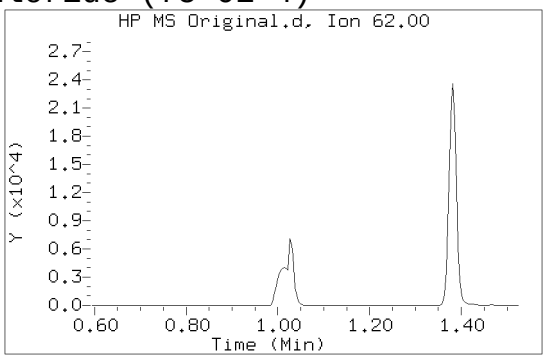
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Inj Date : 02-JUL-2024 11:56
InstruID : VOA9.i
LabSampID : VSTD020

Vinyl Chloride (75-01-4)

Reason Code:

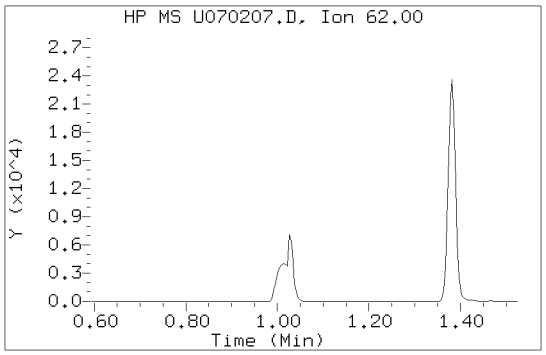
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10-Jul-2024
08:51
RUCHA
PATEL



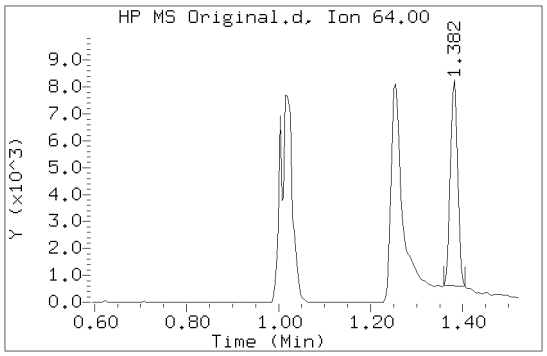
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10-Jul-2024
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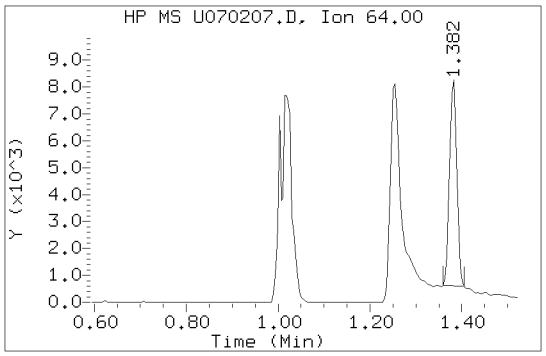
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7653
10-Jul-2024
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RUCHA
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AFTER

MASS
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09:57
RUCHA
PATEL

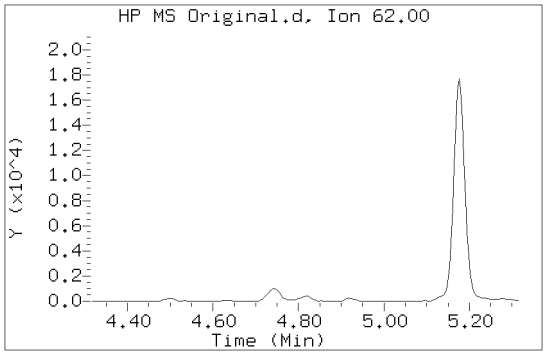


1,2-Dichloroethane (107-06-2)

Reason Code:

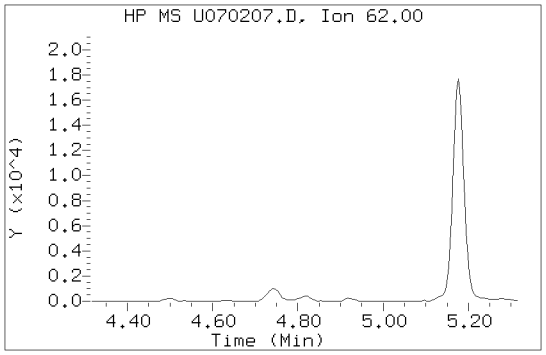
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08:51
RUCHA
PATEL



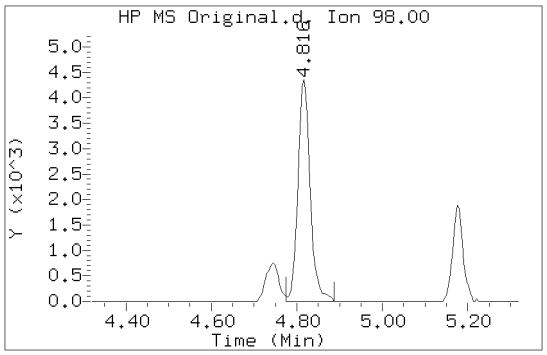
AFTER

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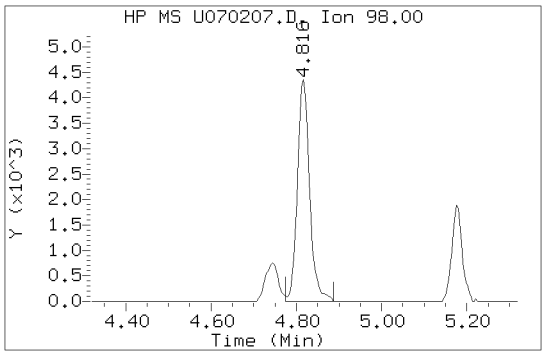
BEFORE

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HEIGHT
4356
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
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8818
HEIGHT
4356
10-Jul-2024
09:57
RUCHA
PATEL



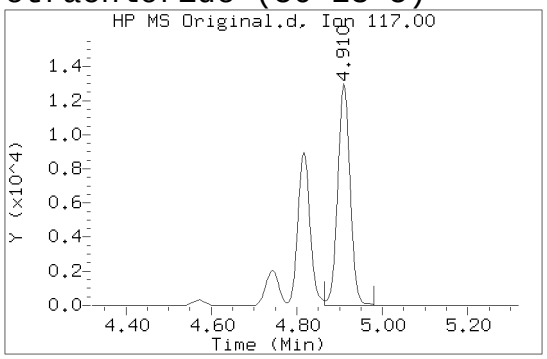
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Inj Date : 02-JUL-2024 11:56
InstruID : VOA9.i
LabSampID : VSTD020

Carbon Tetrachloride (56-23-5)

Reason Code:

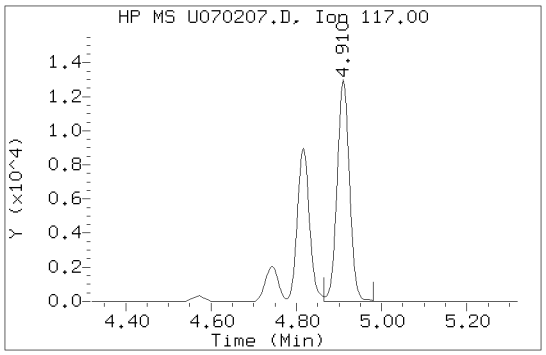
BEFORE

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HEIGHT
13000
10-Jul-2024
08:51
RUCHA
PATEL



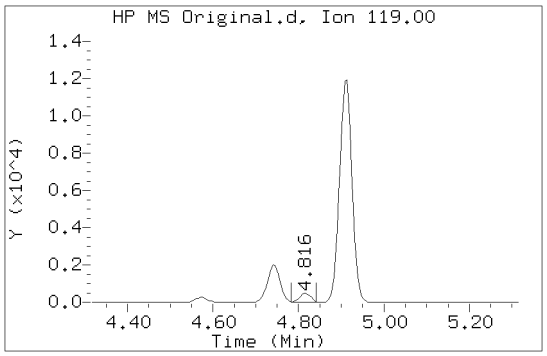
AFTER

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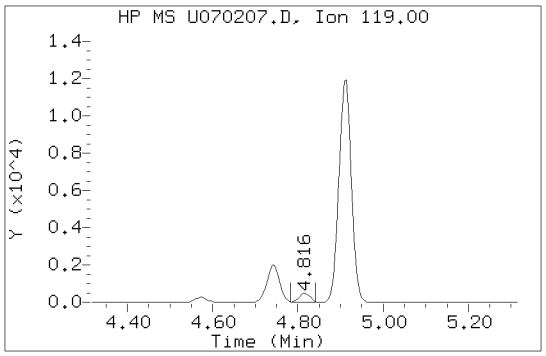
BEFORE

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HEIGHT
471
10-Jul-2024
08:51
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PATEL



AFTER

MASS
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HEIGHT
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10-Jul-2024
09:57
RUCHA
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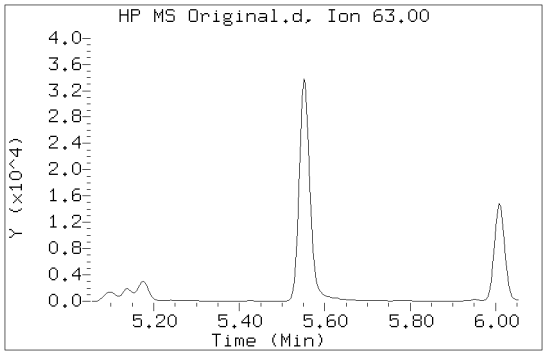


1,2-Dichloropropane (78-87-5)

Reason Code:

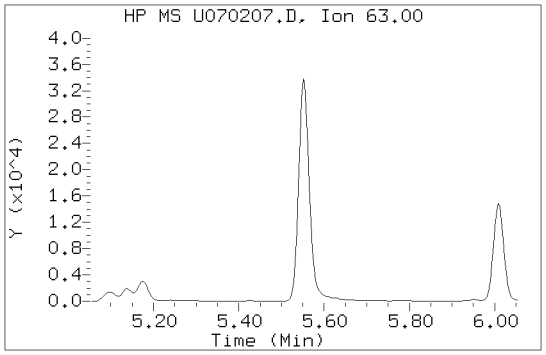
BEFORE

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HEIGHT
14650
10-Jul-2024
08:51
RUCHA
PATEL



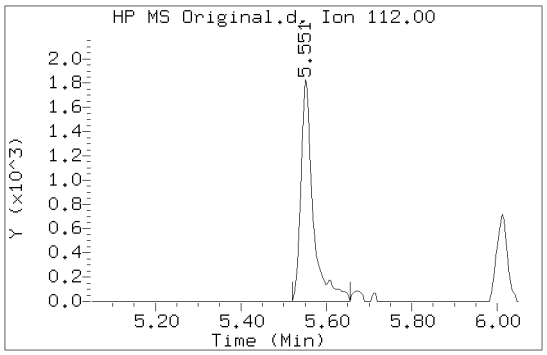
AFTER

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09:57
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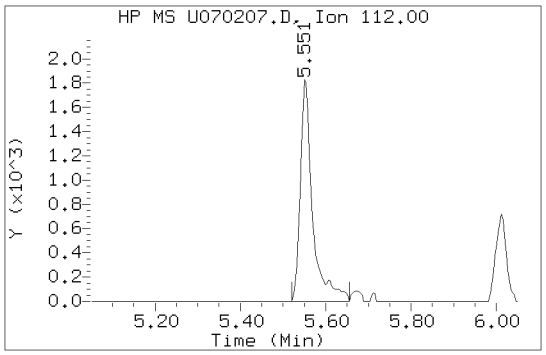
BEFORE

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1828
10-Jul-2024
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AFTER

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HEIGHT
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10-Jul-2024
09:57
RUCHA
PATEL

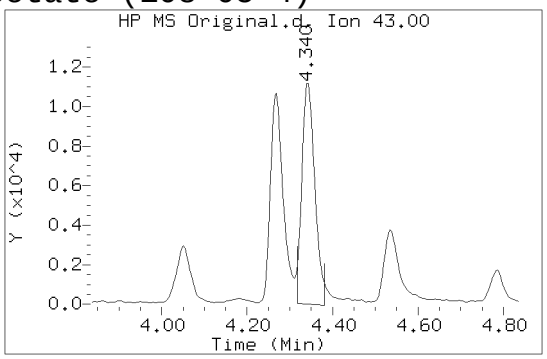


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Inj Date : 02-JUL-2024 11:56
InstruID : VOA9.i
LabSampID : VSTD020

Vinyl Acetate (108-05-4)

BEFORE

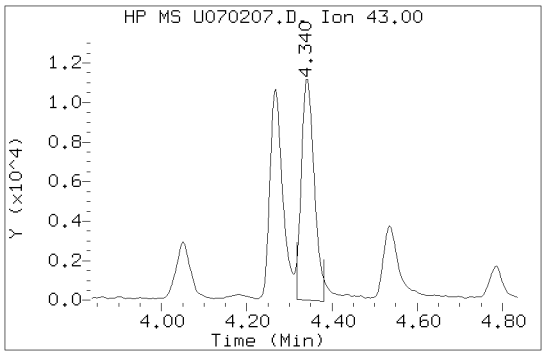
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10-Jul-2024
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Reason Code:

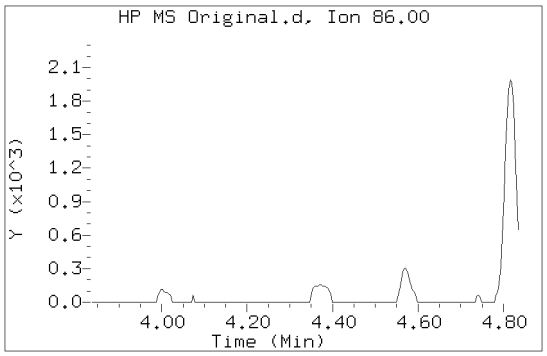
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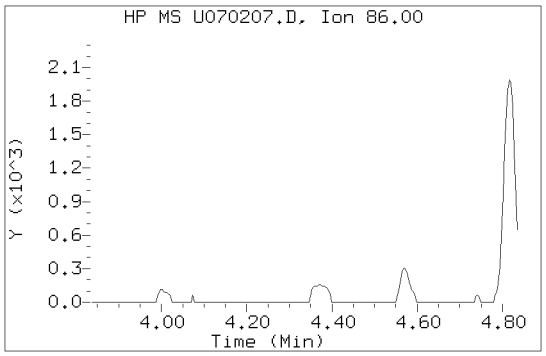
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10-Jul-2024
08:51
RUCHA
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AFTER

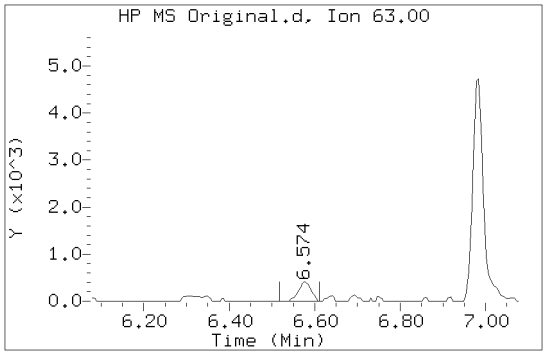
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10-Jul-2024
09:57
RUCHA
PATEL



2-Chloroethylvinyl ether (110-75-8)

BEFORE

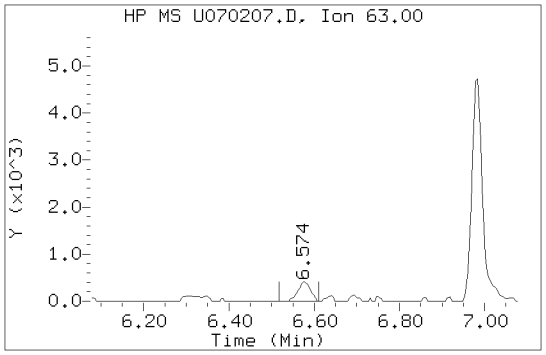
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10-Jul-2024
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RUCHA
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Reason Code:

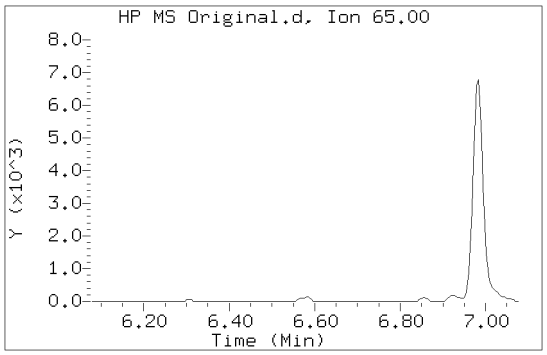
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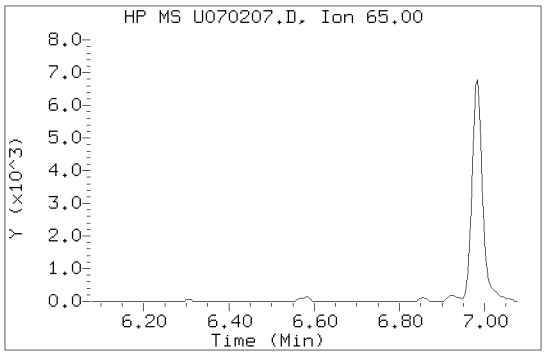
BEFORE

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08:51
RUCHA
PATEL



AFTER

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AREA
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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



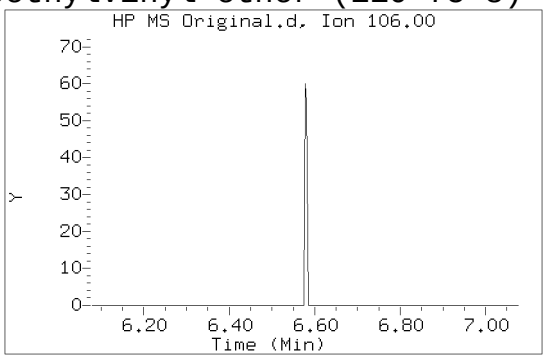
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Inj Date : 02-JUL-2024 11:56
InstruID : VOA9.i
LabSampID : VSTD020

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

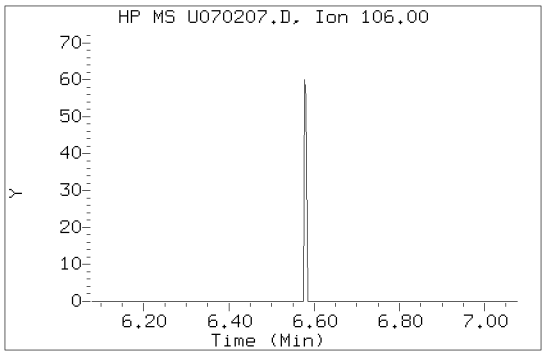
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10-Jul-2024
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PATEL



AFTER

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10-Jul-2024
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RUCHA
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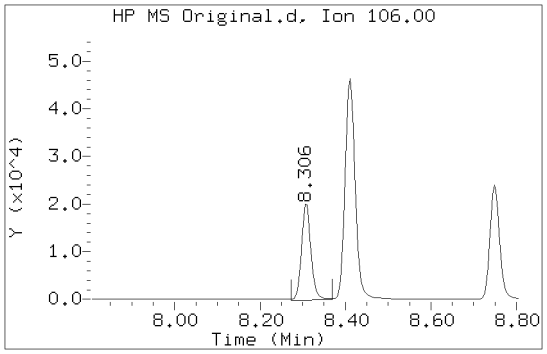


Ethylbenzene (100-41-4)

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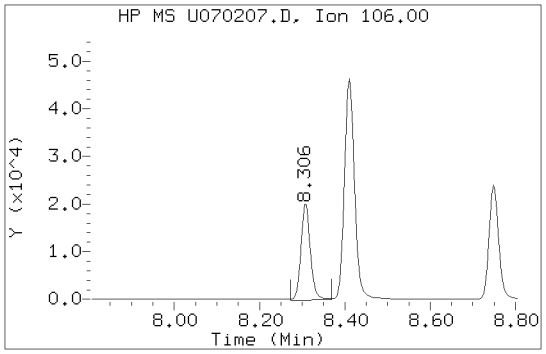
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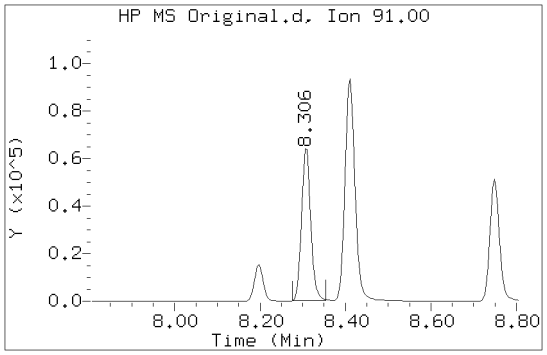
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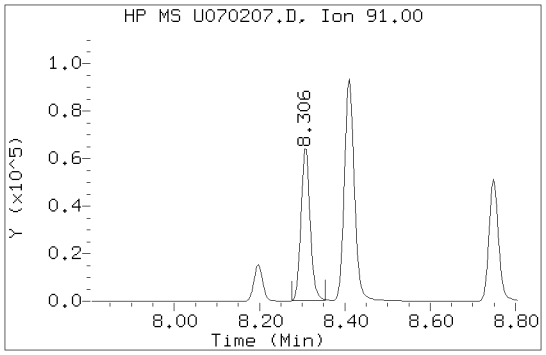
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AFTER

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RUCHA
PATEL

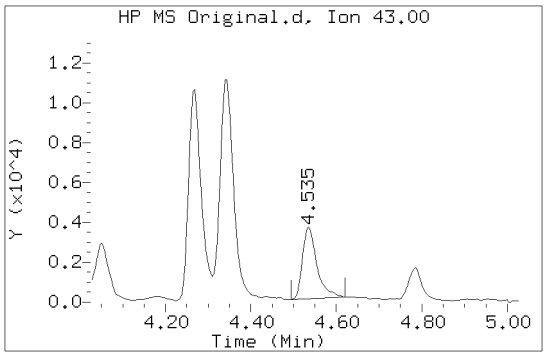


Ethyl Acetate (141-78-6)

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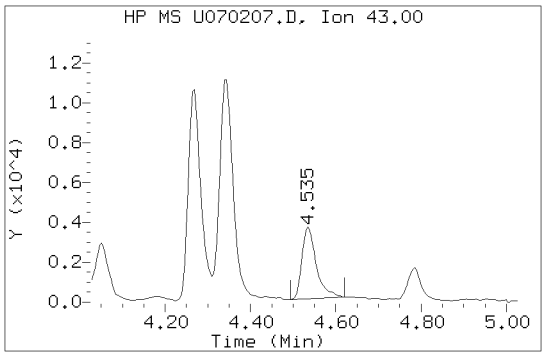
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10-Jul-2024
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AFTER

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HEIGHT
3620
10-Jul-2024
09:57
RUCHA
PATEL



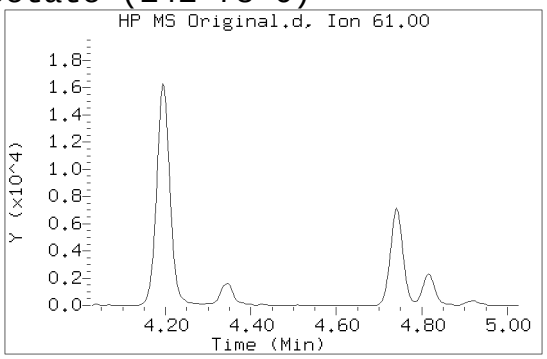
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InstruID : VOA9.i
LabSampID : VSTD020

Ethyl Acetate (141-78-6)

Reason Code:

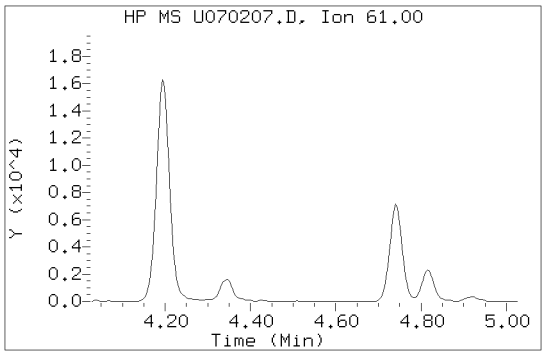
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RUCHA
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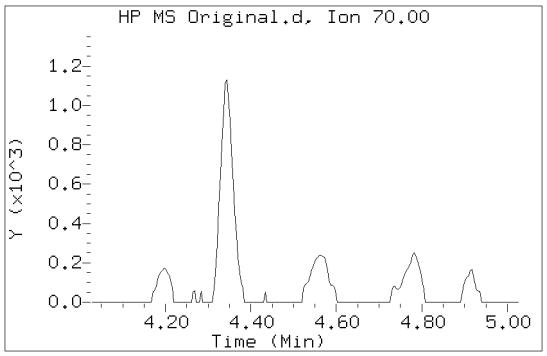
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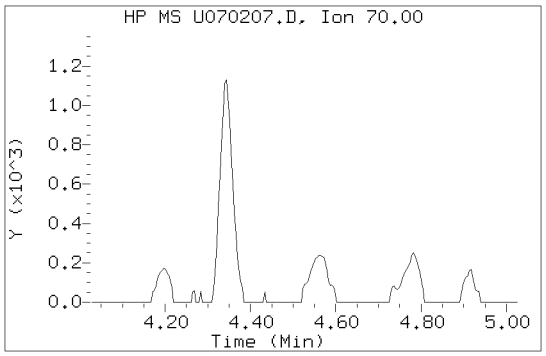
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0
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AFTER

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09:57
RUCHA
PATEL

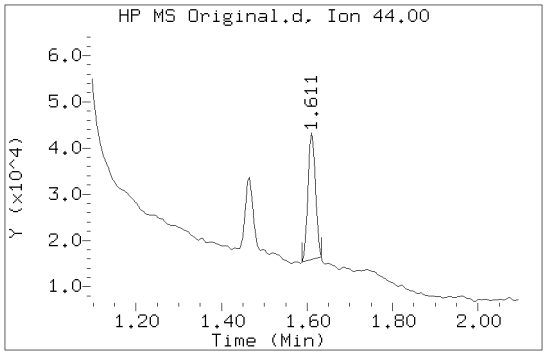


Ethylene oxide (75-21-8)

Reason Code:

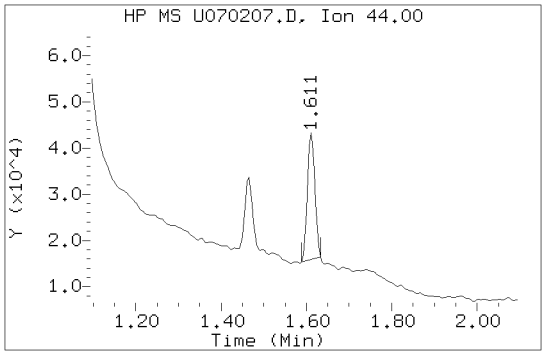
BEFORE

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27346
10-Jul-2024
08:51
RUCHA
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AFTER

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34021
HEIGHT
27346
10-Jul-2024
09:57
RUCHA
PATEL

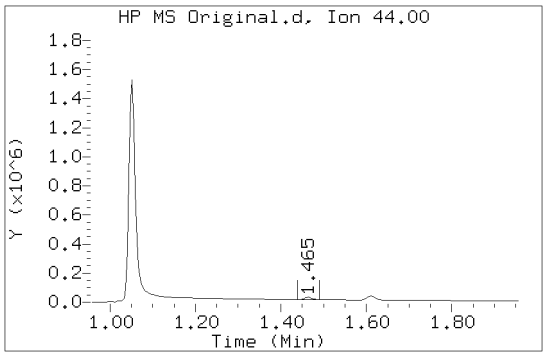


Acetaldehyde (75-07-0)

Reason Code:

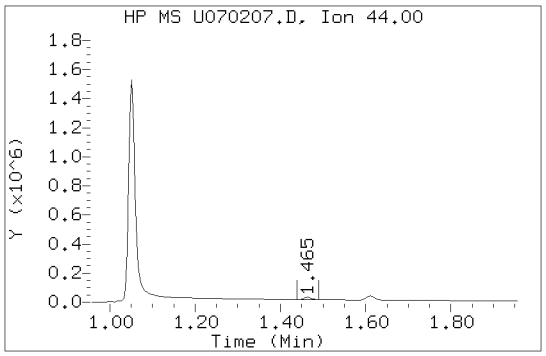
BEFORE

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10-Jul-2024
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AFTER

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19004
HEIGHT
15659
10-Jul-2024
09:57
RUCHA
PATEL



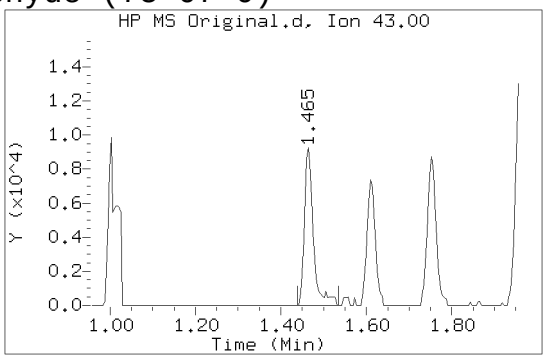
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Inj Date : 02-JUL-2024 11:56
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

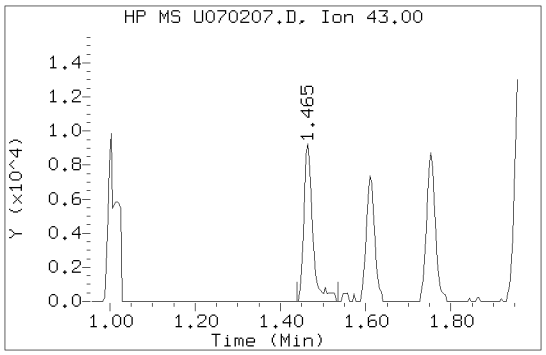
BEFORE

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10-Jul-2024
08:51
RUCHA
PATEL



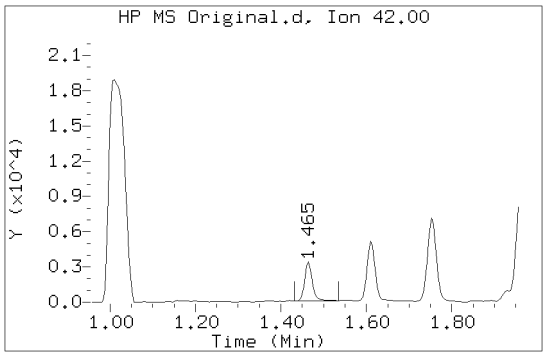
AFTER

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09:57
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PATEL



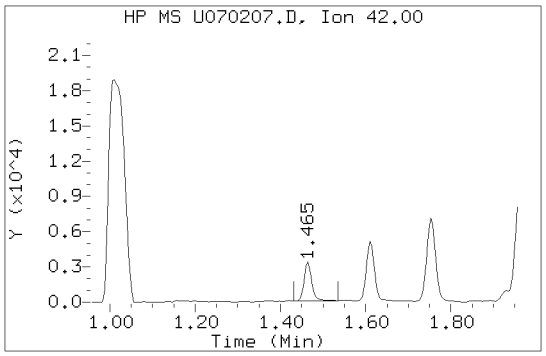
BEFORE

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3359
10-Jul-2024
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AFTER

MASS
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4379
HEIGHT
3359
10-Jul-2024
09:57
RUCHA
PATEL

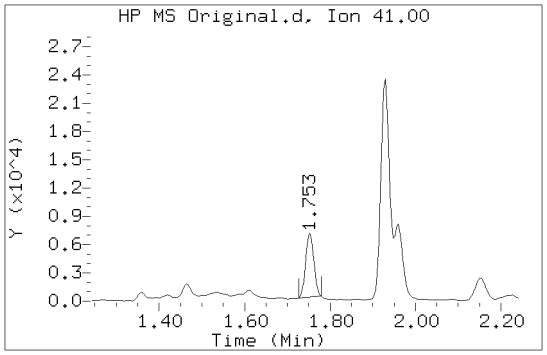


Isobutylene (115-11-7)

Reason Code:

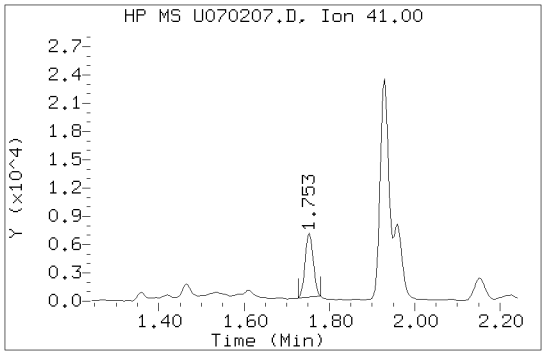
BEFORE

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HEIGHT
6779
10-Jul-2024
08:51
RUCHA
PATEL



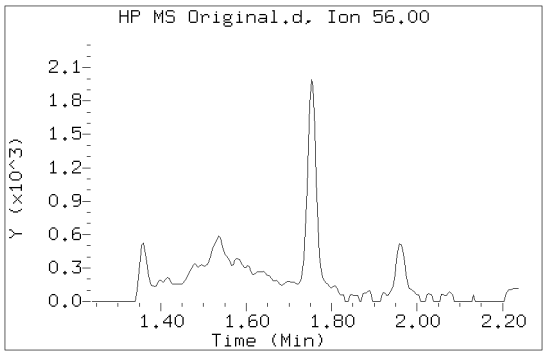
AFTER

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10-Jul-2024
09:57
RUCHA
PATEL



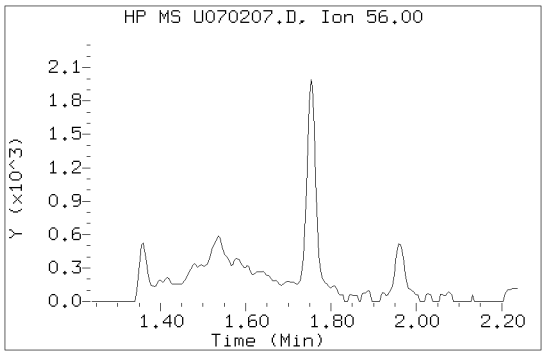
BEFORE

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08:51
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AFTER

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10-Jul-2024
09:57
RUCHA
PATEL



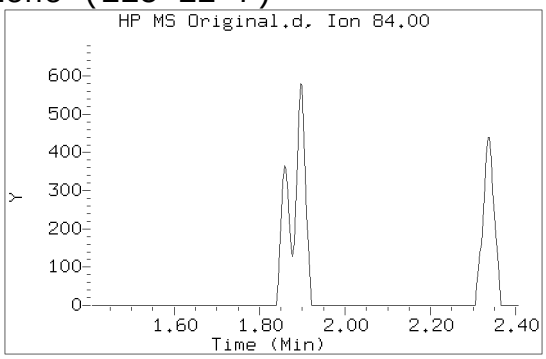
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Inj Date : 02-JUL-2024 11:56
InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

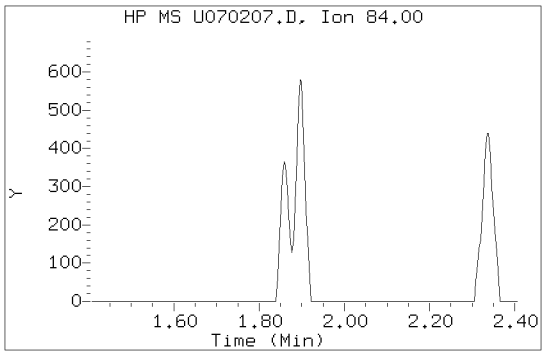
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10-Jul-2024
08:51
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AFTER

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10-Jul-2024
09:57
RUCHA
PATEL

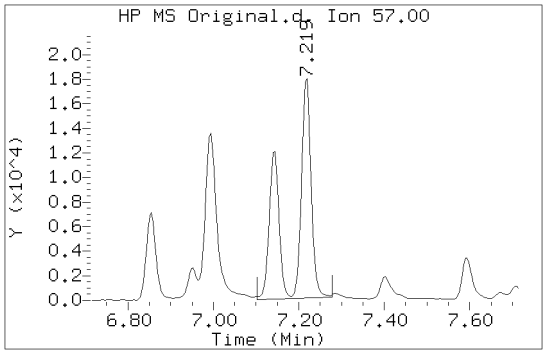


sec-Butyl Ether (6863-58-7)

Reason Code:

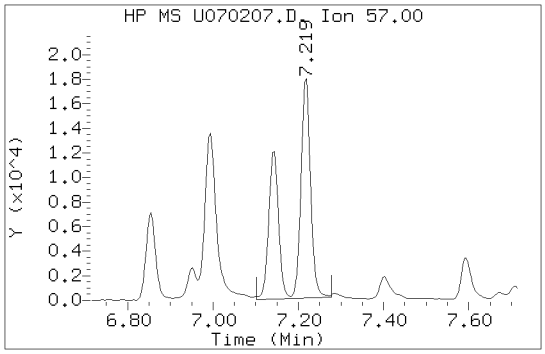
BEFORE

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17832
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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47623
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17832
10-Jul-2024
09:57
RUCHA
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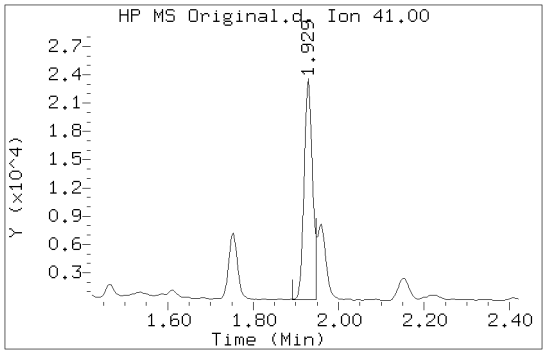


2-Chloropropene (557-98-2)

Reason Code:

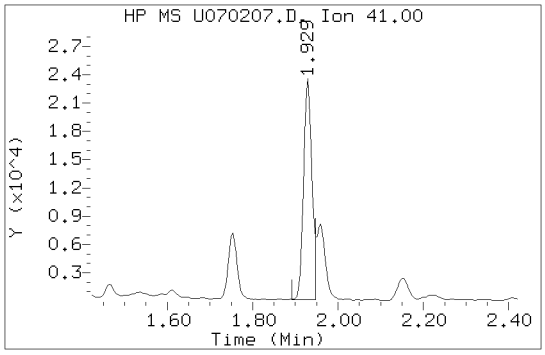
BEFORE

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23448
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
41
AREA
33516
HEIGHT
23448
10-Jul-2024
09:57
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070208.D Page 1
Report Date: 10-Jul-2024 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070208.D
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Inj Date : 02-JUL-2024 12:17
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240702.b\8260C.m
Meth Date : 10-Jul-2024 09:57 VOA9.i Quant Type: ISTD
Cal Date : 02-JUL-2024 11:56 Cal File: U070207.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	203912	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	55125	50.0000	51.46(M)
3	Chloromethane	50	1.295	1.295	(0.269)	131613	50.0000	50.79(M)
4	Propionitrile	54	4.332	4.332	(0.900)	86765	500.000	497.80
5	Vinyl Chloride	62	1.374	1.374	(0.285)	73146	50.0000	53.54(M)
6	Bromomethane	94	1.614	1.614	(0.335)	24384	50.0000	50.46
7	Chloroethane	64	1.696	1.696	(0.352)	46651	50.0000	47.26
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	87794	50.0000	57.49
9	Acrolein	56	2.259	2.259	(0.469)	5070	100.000	89.75
10	Acetone	43	2.405	2.405	(0.499)	40525	100.000	102.14
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	47305	50.0000	51.10
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	174137	1000.00	1025.43
13	Acetonitrile	39	2.667	2.667	(0.554)	61345	500.000	505.13
14	Allyl Chloride	41	2.667	2.667	(0.554)	140974	50.0000	45.99
15	Iodomethane	142	2.461	2.461	(0.511)	54461	100.000	101.73
16	Acrylonitrile	53	3.061	3.061	(0.636)	40697	100.000	102.28
17	Methylene Chloride	84	2.791	2.791	(0.580)	65411	50.0000	50.30
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	139950	50.0000	46.82
19	Carbon Disulfide	76	2.517	2.517	(0.523)	274951	100.000	104.48
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	53211	50.0000	50.34

21 Vinyl Acetate	43	4.335	4.335 (0.900)	67000	100.000	100.88
22 1,1-Dichloroethane	63	3.507	3.507 (0.728)	98536	50.0000	47.81

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	83907	50.0000	53.76
	24 2-Butanone	43	4.260	4.260	(0.885)	60637	100.000	97.05
	25 Methacrylonitrile	41	4.489	4.489	(0.932)	40535	50.0000	50.39(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	75887	50.0000	48.79
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	66049	50.0000	50.24
	28 Chloroform	83	4.568	4.568	(0.949)	110554	50.0000	49.51
	29 Bromochloromethane	128	4.463	4.463	(0.927)	33340	50.0000	50.67
$	30 Dibromofluoromethane	113	4.744	4.744	(0.985)	67342	50.0000	49.98
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	89238	50.0000	50.37
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	80920	50.0000	53.21
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	85069	50.0000	48.39(M)
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	71591	50.0000	47.89(M)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	79060	50.0000	49.98
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	296856	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	248977	50.0000	48.59
	38 Trichloroethene	130	5.786	5.786	(1.043)	63629	50.0000	52.02
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	79860	50.0000	52.54
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	22559	50.0000	49.03
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	3196	100.000	86.40
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	67185	50.0000	49.49(M)
	43 2-Nitropropane	43	6.851	6.851	(1.423)	124562	50.0000	49.03
	44 Dibromomethane	93	6.116	6.116	(1.102)	39657	50.0000	50.25
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	124562	100.000	100.92
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	91404	50.0000	47.57
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	264067	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	246018	50.0000	49.98
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	83921	50.0000	52.41
	50 Toluene	91	6.978	6.978	(0.853)	266221	50.0000	54.36
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	74299	50.0000	47.46
	52 2-Hexanone	43	7.214	7.214	(0.881)	77421	100.000	103.66
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	50143	50.0000	51.85
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	103955	50.0000	51.64
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	61773	50.0000	54.90
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	51457	50.0000	51.98
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	56095	50.0000	53.36
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	46967	50.0000	50.63
	59 Chlorobenzene	112	8.208	8.208	(1.003)	165204	50.0000	49.21
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	57991	50.0000	52.50
	61 Ethylbenzene	106	8.305	8.305	(1.015)	86412	50.0000	56.56(M)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	214585	100.000	102.43
	63 o-Xylene	106	8.748	8.748	(1.069)	105794	50.0000	51.38
	64 Styrene	104	8.763	8.763	(1.071)	172760	50.0000	49.42
	66 Bromoform	173	8.916	8.916	(1.089)	37637	50.0000	45.73
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	266577	50.0000	50.66
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	80479	50.0000	49.37
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	90264	50.0000	50.30
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	143526	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	77662	50.0000	48.81
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	15721	50.0000	48.54
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	296548	50.0000	49.11
	74 Bromobenzene	156	9.317	9.317	(0.916)	71413	50.0000	51.05
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	208059	50.0000	50.94

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	187623	50.0000	53.51
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	214896	50.0000	54.18

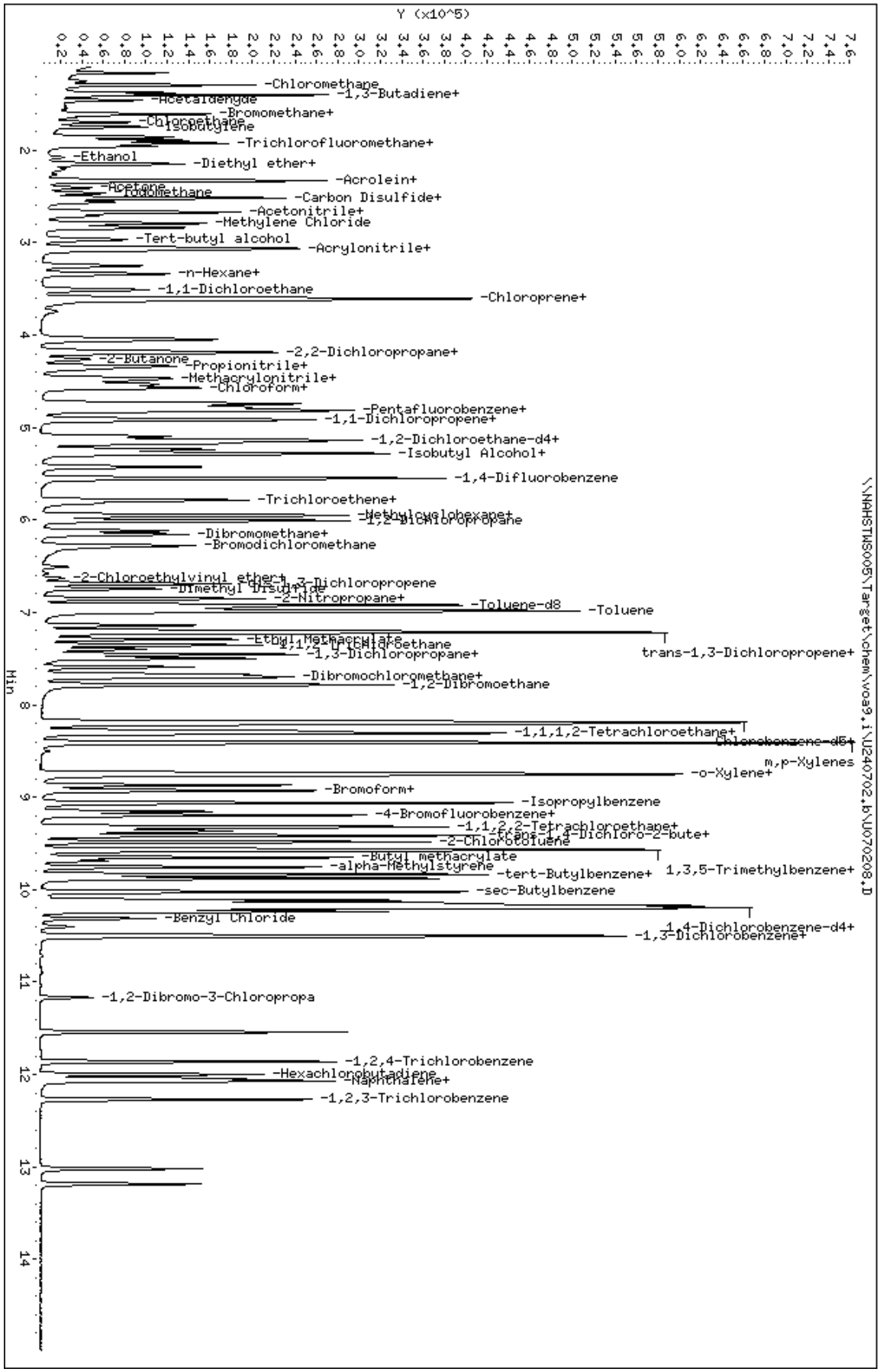
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	193428	50.0000	50.80
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	194398	50.0000	47.02
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	256968	50.0000	49.77
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	219192	50.0000	48.55
83	1,3-Dichlorobenzene	146	10.506	10.506	(1.033)	126963	50.0000	46.49
84	1,4-Dichlorobenzene	146	10.506	10.506	(1.033)	126963	50.0000	46.49
86	Benzyl Chloride	91	10.311	10.311	(1.260)	71077	50.0000	50.15
87	n-Butylbenzene	91	10.494	10.494	(1.032)	190912	50.0000	47.91
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	126963	50.0000	46.49
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	10329	50.0000	50.68
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	82220	50.0000	51.25
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	38999	50.0000	48.86
92	Naphthalene	128	12.069	12.069	(1.186)	186189	50.0000	47.57
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	76430	50.0000	53.89
146	Methyl acetate	43	2.708	2.708	(0.563)	48755	50.0000	47.78
138	Freon TF	101	2.330	2.330	(0.484)	49705	50.0000	51.18
141	Cyclohexane	56	4.781	4.781	(0.993)	90776	50.0000	50.75
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	21254	100.000	102.31
147	Methylcyclohexane	55	5.944	5.944	(1.071)	145983	50.0000	52.90
135	1,4-Dioxane	88	6.165	6.165	(1.280)	13309	1000.00	979.83
132	n-Butanol	56	5.820	5.820	(1.209)	31080	1000.00	979.24
136	n-Hexane	57	3.338	3.338	(0.693)	58653	50.0000	50.79
139	Diethyl ether	59	2.142	2.142	(0.445)	39540	50.0000	49.19
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	93940	1000.00	983.15
149	Isopropyl alcohol	45	2.558	2.558	(0.531)	70272	1000.00	997.15
156	Diisopropyl ether	45	3.616	3.616	(0.751)	177087	50.0000	49.39
162	Butyl acrylate	55	8.733	8.733	(1.067)	110656	50.0000	51.74
164	Dicyclopentadiene	66	10.198	10.198	(1.003)	277152	50.0000	52.85
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	173468	50.0000	48.28
167	Ethanol	45	2.079	2.079	(0.432)	13521	1000.00	999.27
172	tert-Butyl formate	59	5.239	5.239	(1.088)	95067	100.000	101.20(M)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	321201	1000.00	1031.81
140	1,3-Butadiene	54	1.400	1.400	(0.291)	69916	50.0000	50.80
182	Epichlorohydrin	57	6.630	6.630	(1.195)	8857	200.000	194.78
M 94	1,2-Dichloroethylene (total)	96				119260	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	72550	50.0000	49.20
130	Ethyl Acetate	43	4.530	4.530	(0.941)	17928	50.0000	48.87(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	71495	50.0000	49.17
189	n-Butyl acetate	43	7.705	7.705	(0.941)	99244	50.0000	52.13
134	Cyclohexanone	55	9.152	9.152	(0.900)	61626	1000.00	1046.04
185	Isoprene	39	2.154	2.154	(0.447)	11616	50.0000	49.35
188	Isopropyl acetate	43	5.280	5.280	(0.951)	174137	50.0000	50.88
150	Allyl alcohol	57	3.338	3.338	(0.693)	58653	1000.00	1015.61
194	Acetaldehyde	44	1.456	1.456	(0.303)	52286	200.000	185.75(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	48429	50.0000	51.12
202	Isobutylene	41	1.749	1.749	(0.363)	23418	50.0000	49.94(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	145983	50.0000	53.09
163	Butyl methacrylate	41	9.651	9.651	(0.949)	74248	50.0000	52.90
159	Propylene oxide	43	2.195	2.195	(0.456)	7376	100.000	111.30
178	Ethylene oxide	44	1.603	1.603	(0.333)	101464	100.000	104.06(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	65002	50.0000	51.27
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	69785	50.0000	53.19(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	123162	50.0000	51.45(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	106486	50.0000	52.47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.925	1.925	(0.400)	83305	50.0000	51.63(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.


Y (x10^5)
Min
-Chloromethane
-1,3-Butadiene+
-Acetaldehyde
-Bromomethane+
-Chloroethane
Isobutylene
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether+
-Acrolein+
-Acetone
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane+
-1,1-Dichloroethane
-Chloroprene+
-2,2-Dichloropropane+
-2-Butanone
-Propionitrile+
-Methacrylonitrile+
-Chloroform+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene+
-Dibromomethane+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-2-Nitropropane+
-Toluene-d8
-Toluene
-Ethyl Methacrylate
trans-1,3-Dichloropropene+
-1,3-Dichloropropane+
-Dibromochloromethane+
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene+
-2-Chlorotoluene
-Butyl methacrylate
-alpha-Methylstyrene
-tert-Butylbenzene+
1,3,5-Trimethylbenzene+
-sec-Butylbenzene
-Benzyl Chloride
-1,3-Dichlorobenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
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Instrument: VOA9.i
Operator: TS
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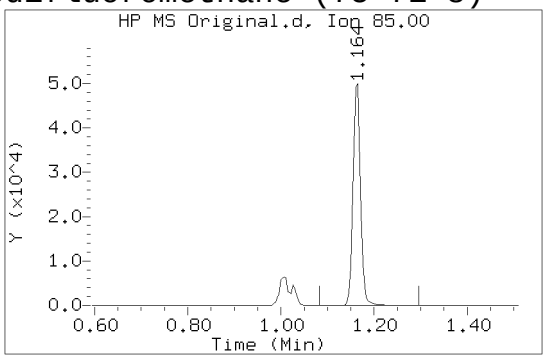
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LabSampID : VSTD050

Dichlorodifluoromethane (75-71-8)

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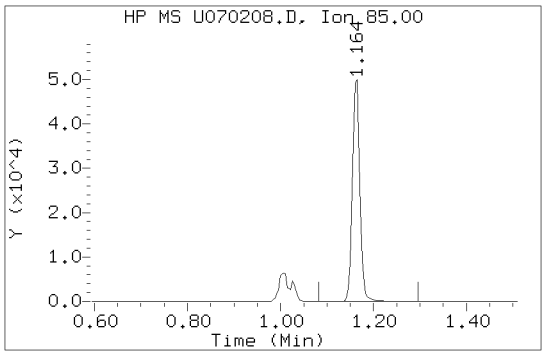
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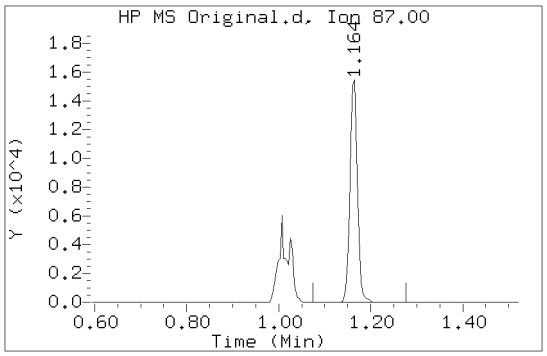
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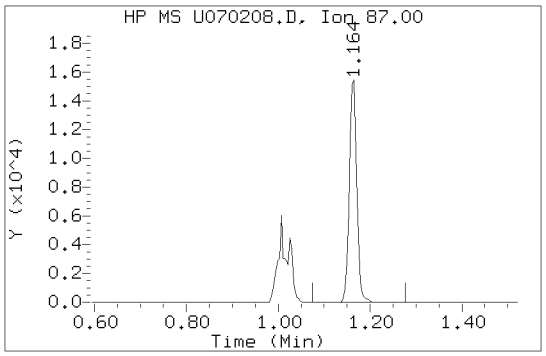
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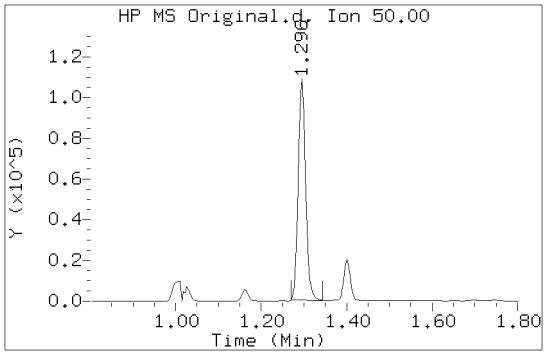


Chloromethane (74-87-3)

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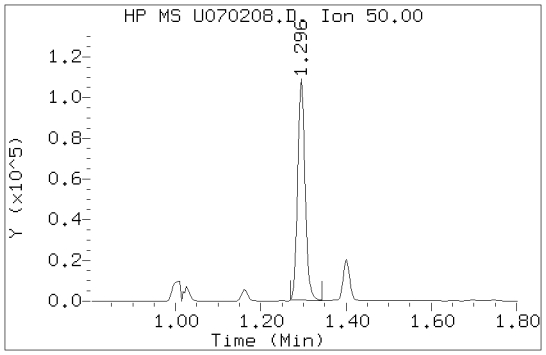
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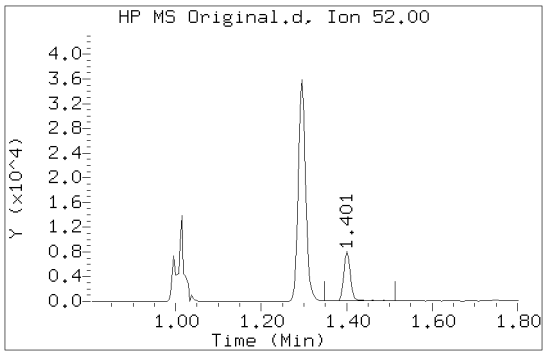
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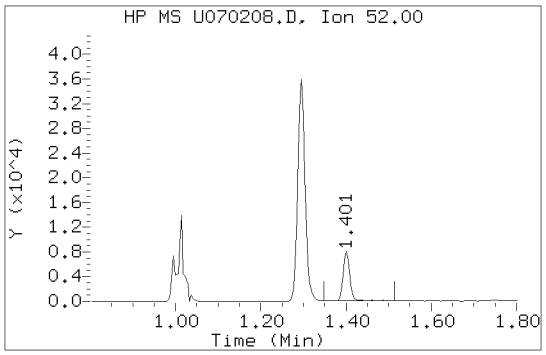
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AFTER

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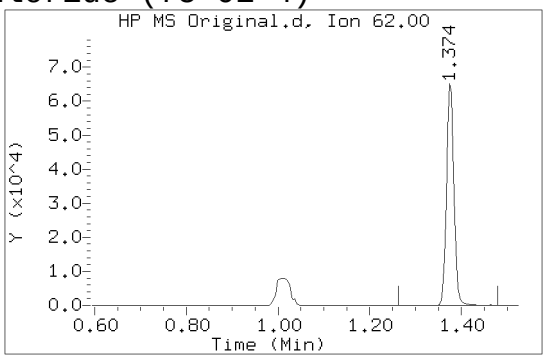
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InstruID : VOA9.i
LabSampID : VSTD050

Vinyl Chloride (75-01-4)

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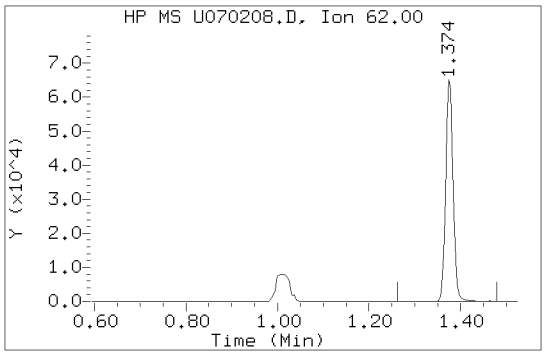
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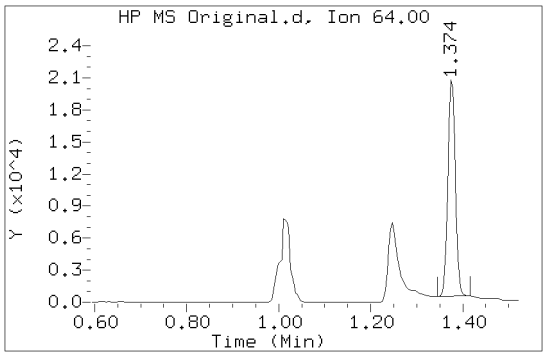
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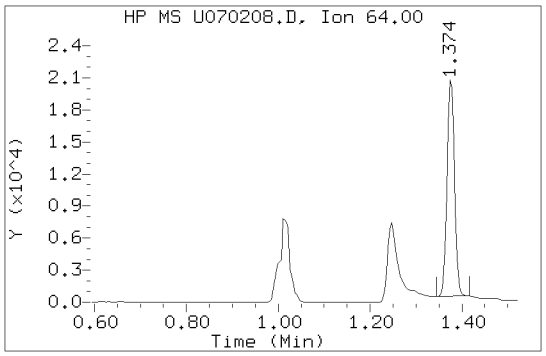
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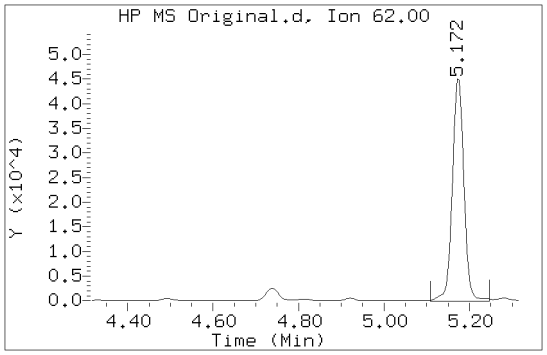


1,2-Dichloroethane (107-06-2)

Reason Code:

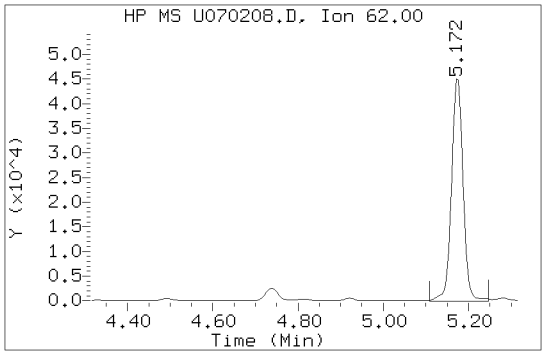
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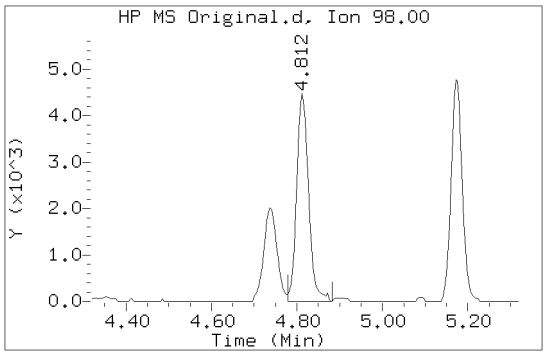
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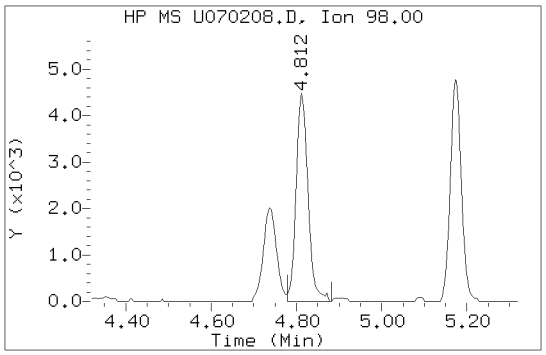
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AFTER

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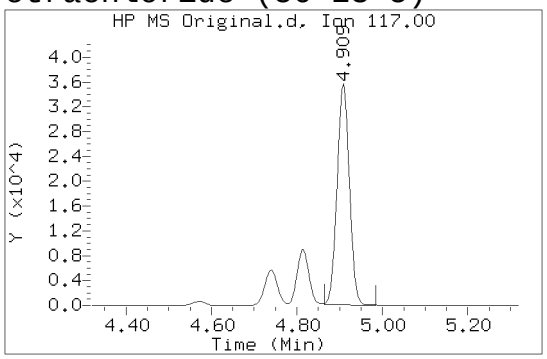
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InstruID : VOA9.i
LabSampID : VSTD050

Carbon Tetrachloride (56-23-5)

Reason Code:

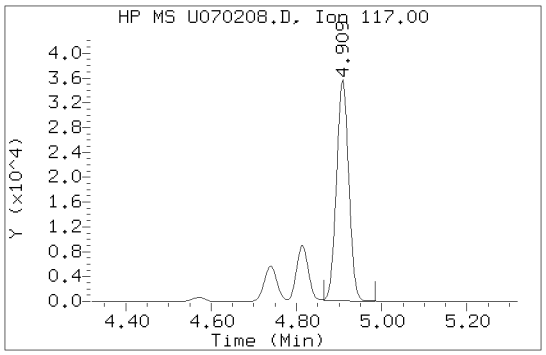
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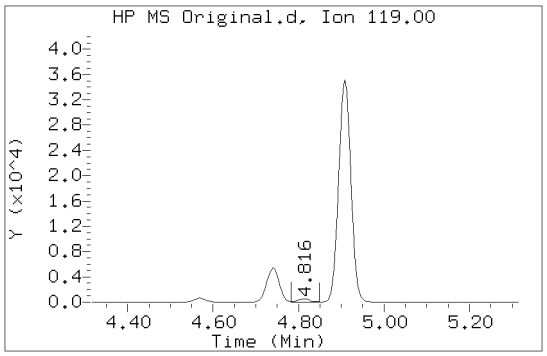
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PATEL



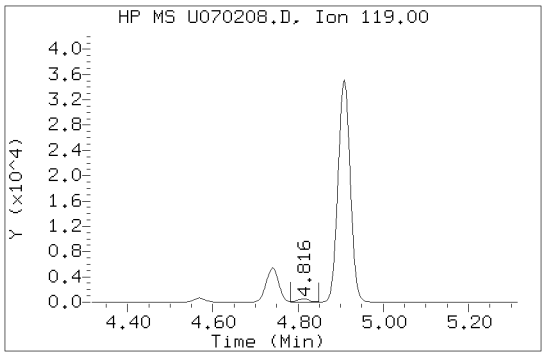
BEFORE

MASS
119
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1038
HEIGHT
499
10-Jul-2024
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PATEL



AFTER

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499
10-Jul-2024
09:57
RUCHA
PATEL

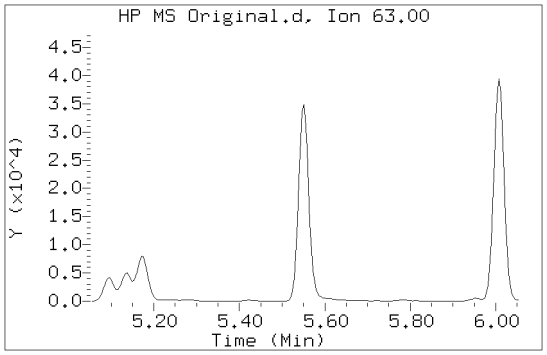


1,2-Dichloropropane (78-87-5)

Reason Code:

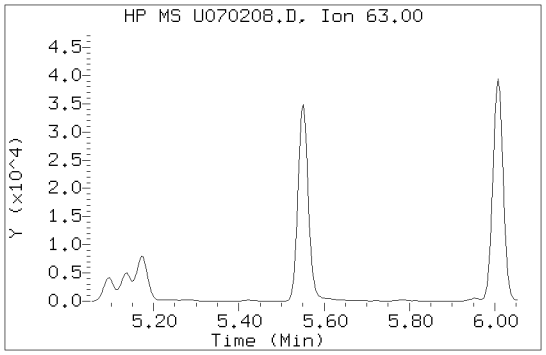
BEFORE

MASS
63
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67185
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39418
10-Jul-2024
08:51
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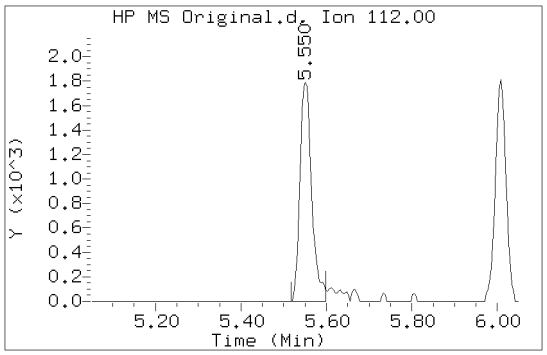
AFTER

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09:57
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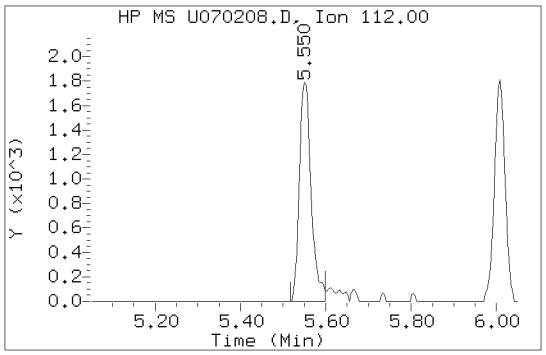
BEFORE

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1791
10-Jul-2024
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AFTER

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3513
HEIGHT
1791
10-Jul-2024
09:57
RUCHA
PATEL



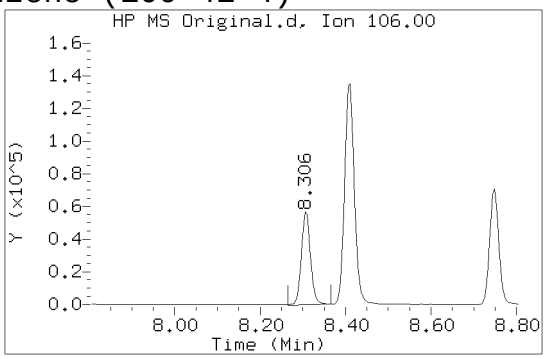
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Inj Date : 02-JUL-2024 12:17
InstruID : VOA9.i
LabSampID : VSTD050

Ethylbenzene (100-41-4)

Reason Code:

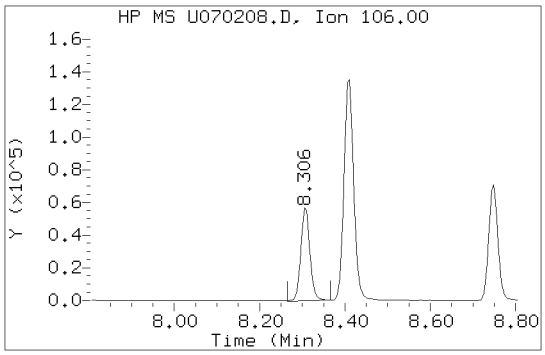
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57096
10-Jul-2024
08:51
RUCHA
PATEL



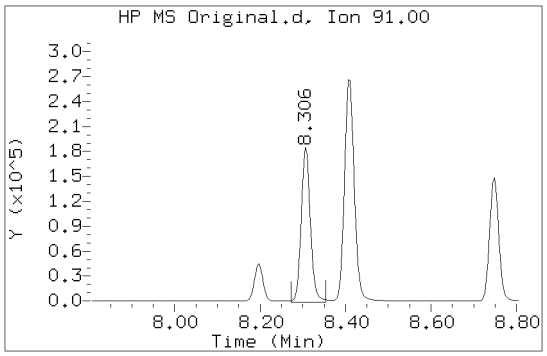
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57096
10-Jul-2024
09:57
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PATEL



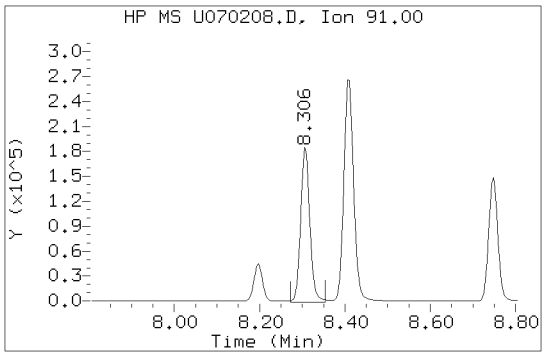
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186599
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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186599
10-Jul-2024
09:57
RUCHA
PATEL

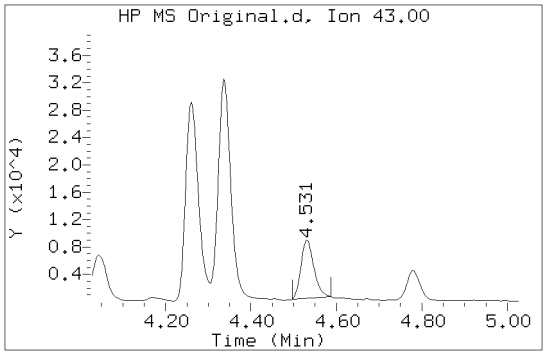


Ethyl Acetate (141-78-6)

Reason Code:

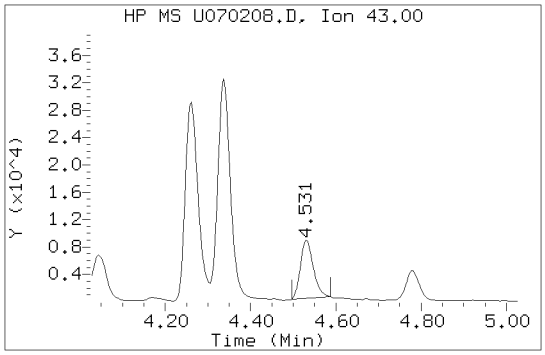
BEFORE

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17928
HEIGHT
8500
10-Jul-2024
08:51
RUCHA
PATEL



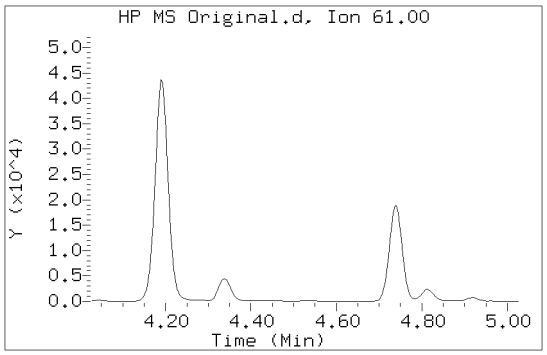
AFTER

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AREA
17928
HEIGHT
8500
10-Jul-2024
09:57
RUCHA
PATEL



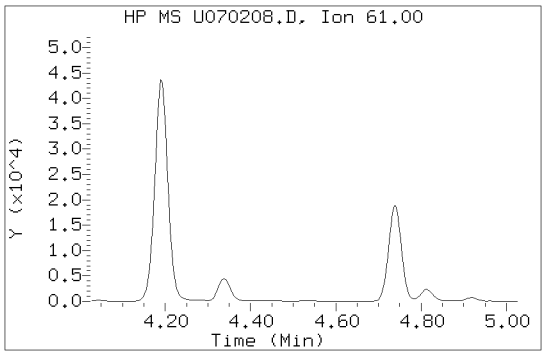
BEFORE

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61
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



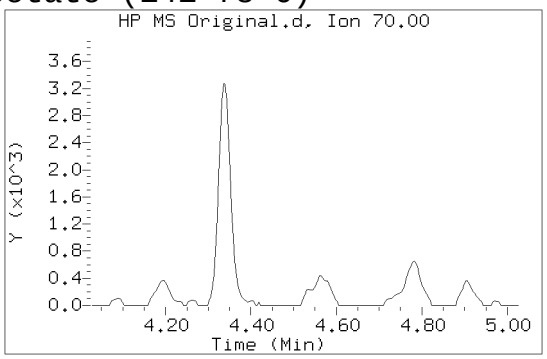
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Inj Date : 02-JUL-2024 12:17
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

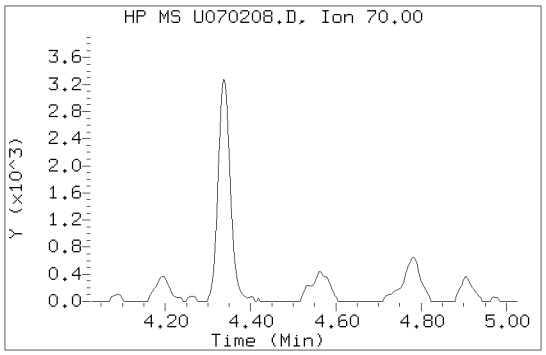
BEFORE

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70
AREA
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HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

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HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

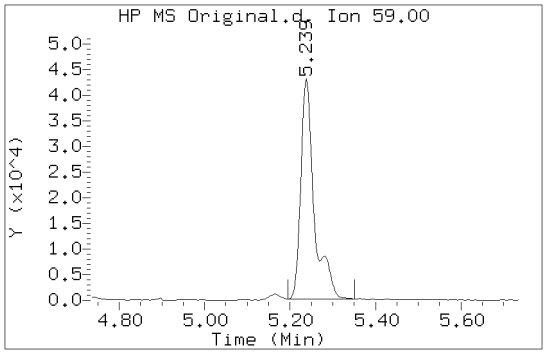


tert-Butyl formate (762-75-4)

Reason Code:

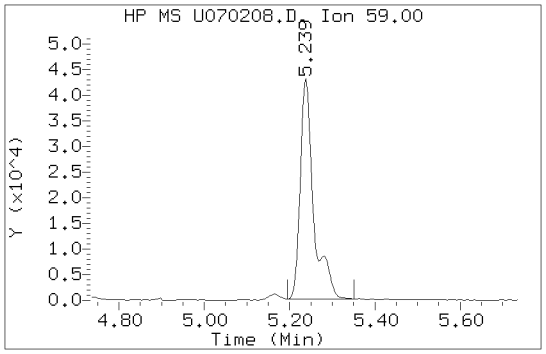
BEFORE

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59
AREA
95067
HEIGHT
42952
10-Jul-2024
08:51
RUCHA
PATEL



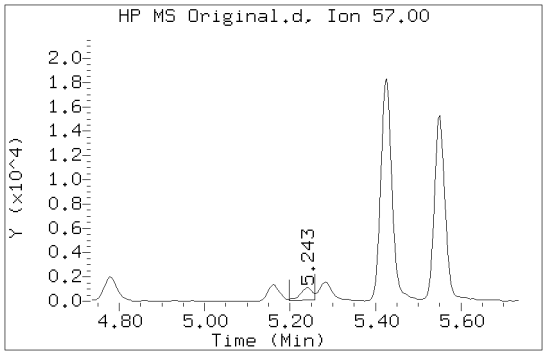
AFTER

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HEIGHT
42952
10-Jul-2024
09:57
RUCHA
PATEL



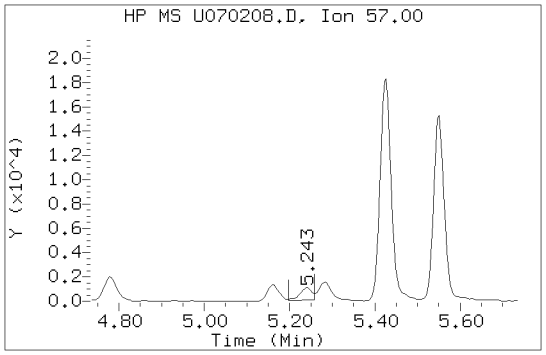
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AREA
2016
HEIGHT
1018
10-Jul-2024
08:51
RUCHA
PATEL



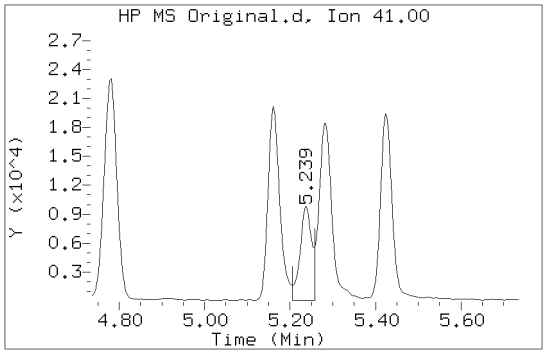
AFTER

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1018
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09:57
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PATEL



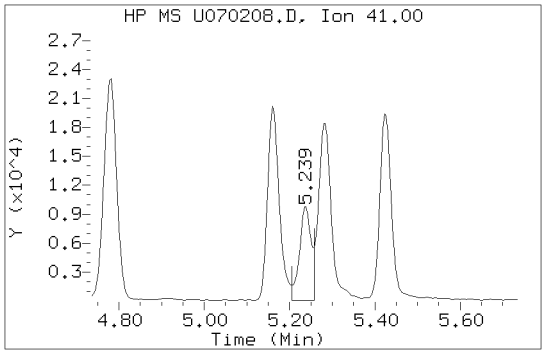
BEFORE

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HEIGHT
9668
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
41
AREA
19316
HEIGHT
9668
10-Jul-2024
09:57
RUCHA
PATEL



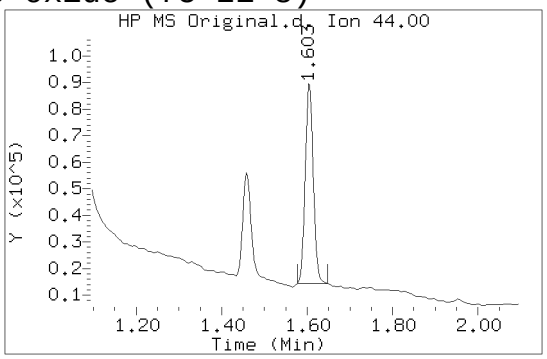
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Inj Date : 02-JUL-2024 12:17
InstruID : VOA9.i
LabSampID : VSTD050

Ethylene oxide (75-21-8)

Reason Code:

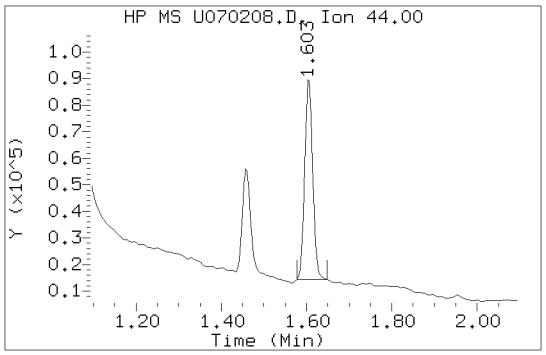
BEFORE

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HEIGHT
75174
10-Jul-2024
08:51
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PATEL



AFTER

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AREA
101464
HEIGHT
75174
10-Jul-2024
09:57
RUCHA
PATEL

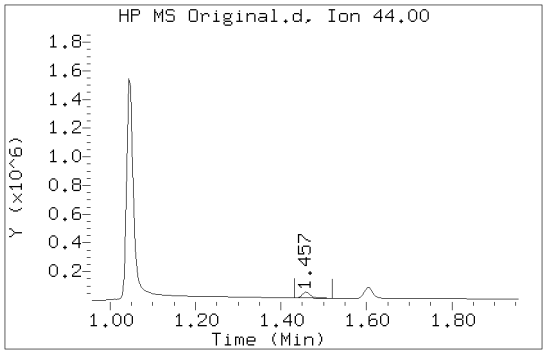


Acetaldehyde (75-07-0)

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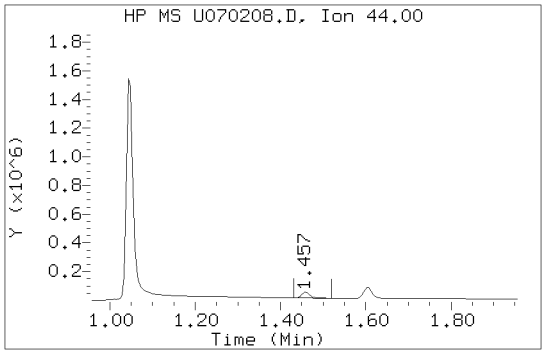
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39299
10-Jul-2024
08:51
RUCHA
PATEL



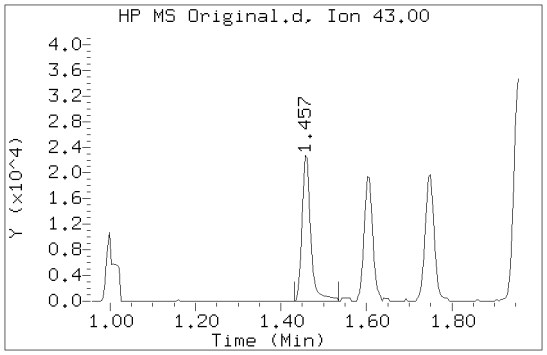
AFTER

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39299
10-Jul-2024
09:57
RUCHA
PATEL



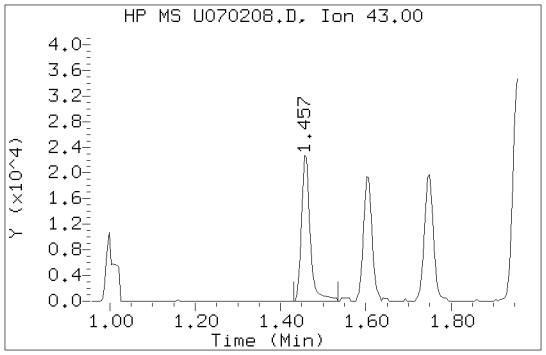
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22760
10-Jul-2024
08:51
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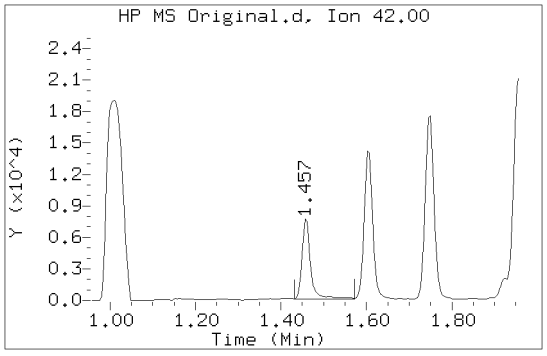
AFTER

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22760
10-Jul-2024
09:57
RUCHA
PATEL



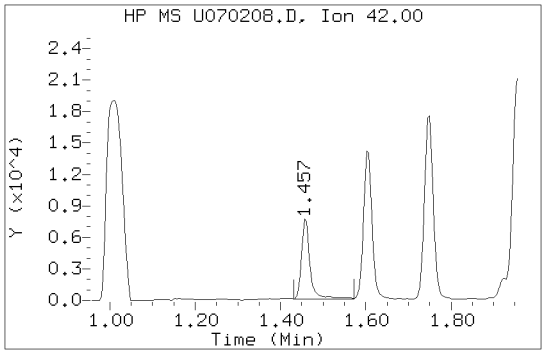
BEFORE

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7618
10-Jul-2024
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AFTER

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10780
HEIGHT
7618
10-Jul-2024
09:57
RUCHA
PATEL



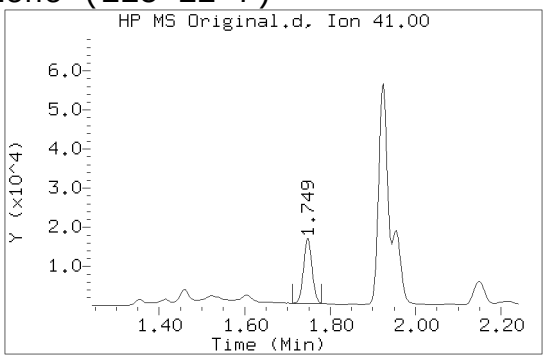
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Inj Date : 02-JUL-2024 12:17
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

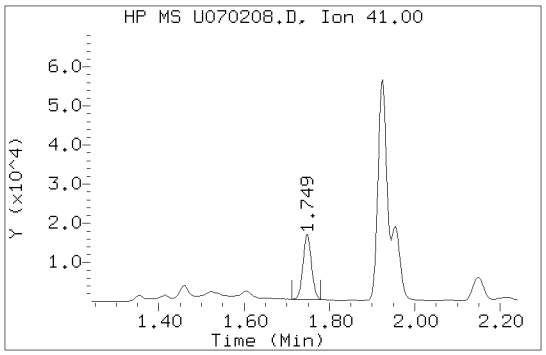
BEFORE

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16549
10-Jul-2024
08:51
RUCHA
PATEL



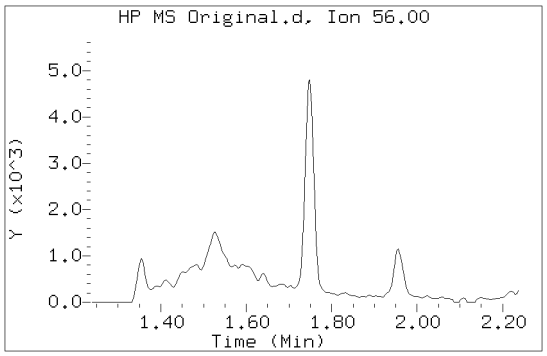
AFTER

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16549
10-Jul-2024
09:57
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PATEL



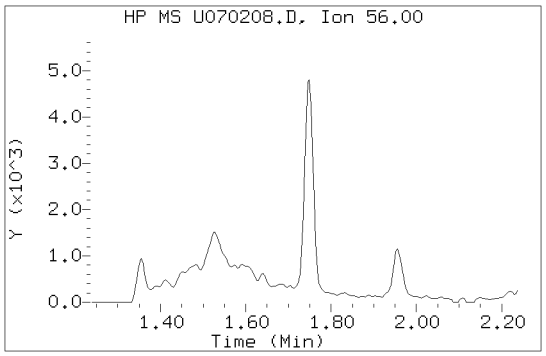
BEFORE

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0
10-Jul-2024
08:51
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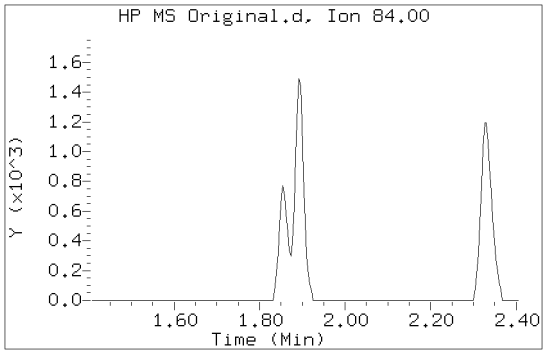
AFTER

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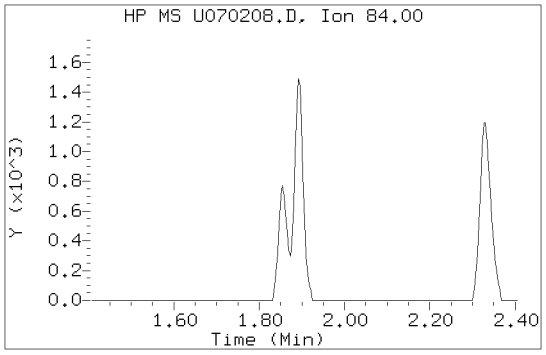
BEFORE

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10-Jul-2024
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AFTER

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10-Jul-2024
09:57
RUCHA
PATEL

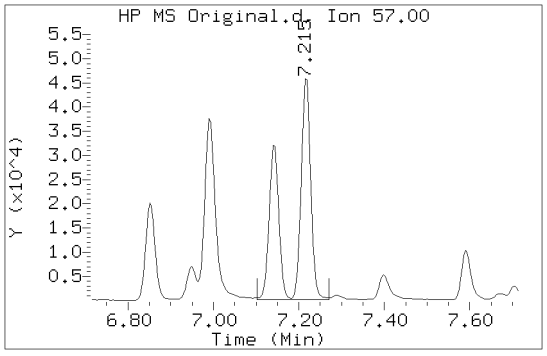


sec-Butyl Ether (6863-58-7)

Reason Code:

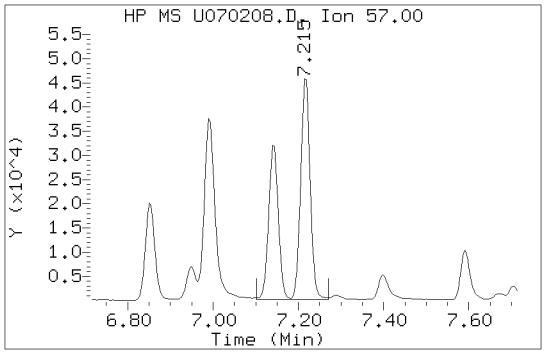
BEFORE

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10-Jul-2024
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AFTER

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123162
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45702
10-Jul-2024
09:57
RUCHA
PATEL



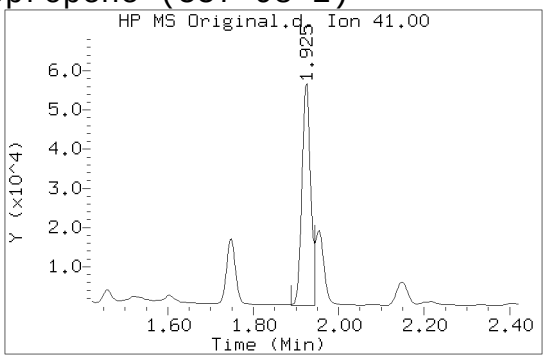
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Inj Date : 02-JUL-2024 12:17
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloropropene (557-98-2)

Reason Code:

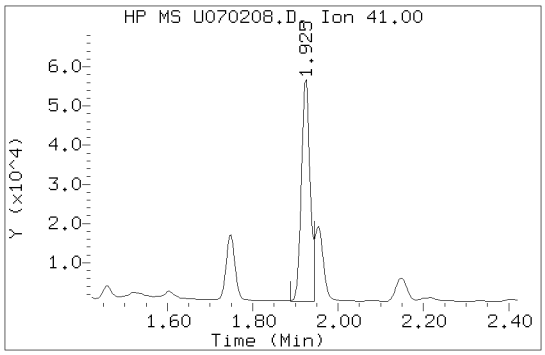
BEFORE

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83305
HEIGHT
56517
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
41
AREA
83305
HEIGHT
56517
10-Jul-2024
09:57
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070209.D Page 1
Report Date: 10-Jul-2024 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070209.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 02-JUL-2024 12:39
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240702.b\8260C.m
Meth Date : 10-Jul-2024 09:57 VOA9.i Quant Type: ISTD
Cal Date : 02-JUL-2024 12:17 Cal File: U070208.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.812	4.812	(1.000)	210523	50.0000	
2 Dichlorodifluoromethane	85	1.157	1.157	(0.240)	109818	100.000	99.43(M)
3 Chloromethane	50	1.288	1.288	(0.268)	248634	100.000	98.47(M)
4 Propionitrile	54	4.328	4.328	(0.900)	170654	1000.00	948.35
5 Vinyl Chloride	62	1.370	1.370	(0.285)	148738	100.000	105.45(M)
6 Bromomethane	94	1.610	1.610	(0.335)	50219	100.000	97.69
7 Chloroethane	64	1.693	1.693	(0.352)	94280	100.000	92.52
8 Trichlorofluoromethane	101	1.888	1.888	(0.392)	180475	100.000	114.48
9 Acrolein	56	2.255	2.255	(0.469)	11351	200.000	192.22
10 Acetone	43	2.397	2.397	(0.498)	81336	200.000	207.27
11 1,1-Dichloroethene	96	2.322	2.322	(0.483)	97455	100.000	101.97
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	357858	2000.00	2041.13
13 Acetonitrile	39	2.664	2.664	(0.554)	120610	1000.00	961.34
14 Allyl Chloride	41	2.664	2.664	(0.554)	279216	100.000	88.24
15 Iodomethane	142	2.457	2.457	(0.511)	131219	200.000	199.75
16 Acrylonitrile	53	3.057	3.057	(0.635)	79241	200.000	194.05
17 Methylene Chloride	84	2.783	2.783	(0.579)	124971	100.000	99.54
18 Methyl tert-butyl ether	73	3.072	3.072	(0.639)	284240	100.000	92.11
19 Carbon Disulfide	76	2.510	2.510	(0.522)	562033	200.000	206.87
20 trans-1,2-Dichloroethene	96	3.050	3.050	(0.634)	108053	100.000	99.01

21 Vinyl Acetate	43	4.332	4.332 (0.900)	137031	200.000	199.84
22 1,1-Dichloroethane	63	3.503	3.503 (0.728)	197811	100.000	92.96

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.601	3.601	(0.748)	170870	100.000	106.05
	24 2-Butanone	43	4.257	4.257	(0.885)	122978	200.000	190.66
	25 Methacrylonitrile	41	4.485	4.485	(0.932)	83463	100.000	100.89(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	158625	100.000	97.49
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	134105	100.000	98.81
	28 Chloroform	83	4.568	4.568	(0.949)	221402	100.000	96.04
	29 Bromochloromethane	128	4.463	4.463	(0.928)	66081	100.000	97.28
$	30 Dibromofluoromethane	113	4.916	4.916	(1.022)	2577	100.000	1.77
	31 1,1,1-Trichloroethane	97	4.737	4.737	(0.984)	180629	100.000	98.01
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	165215	100.000	106.72
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	171067	100.000	95.58(M)
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	153471	100.000	99.36(M)
$	35 1,2-Dichloroethane-d4	65	5.168	5.168	(1.074)	7325	100.000	4.37
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	302231	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	498483	100.000	95.56
	38 Trichloroethene	130	5.786	5.786	(1.043)	128121	100.000	102.89
	39 Bromodichloromethane	83	6.274	6.274	(1.130)	164323	100.000	106.19
	40 Methyl Methacrylate	41	5.816	5.816	(1.209)	46222	100.000	97.30
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	10149	200.000	208.31
	42 1,2-Dichloropropane	63	6.004	6.004	(1.082)	133804	100.000	96.81(M)
	43 2-Nitropropane	43	6.851	6.851	(1.424)	258882	100.000	98.71
	44 Dibromomethane	93	6.116	6.116	(1.102)	79123	100.000	98.48
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	258882	200.000	201.55
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	195274	100.000	97.72
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	274820	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	2787	100.000	0.58(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	170026	100.000	104.31
	50 Toluene	91	6.978	6.978	(0.853)	534060	100.000	104.78
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	158830	100.000	97.20
	52 2-Hexanone	43	7.214	7.214	(0.881)	152383	200.000	192.84
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	97395	100.000	96.77
	54 1,3-Dichloropropane	76	7.496	7.496	(0.916)	210548	100.000	100.50
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	130300	100.000	111.28
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	104187	100.000	100.95
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	115161	100.000	105.26
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	96430	100.000	101.40
	59 Chlorobenzene	112	8.208	8.208	(1.003)	334655	100.000	95.79
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	121512	100.000	105.72
	61 Ethylbenzene	106	8.305	8.305	(1.015)	173116	100.000	108.88(M)
	62 m,p-Xylenes	106	8.407	8.407	(1.027)	436386	200.000	198.71
	63 o-Xylene	106	8.748	8.748	(1.069)	214431	100.000	99.42
	64 Styrene	104	8.763	8.763	(1.071)	360741	100.000	97.82
	66 Bromoform	173	8.916	8.916	(1.089)	83484	100.000	93.98
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	547059	100.000	99.14
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	161440	100.000	96.04
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	1625	100.000	0.89(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	148021	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	161300	100.000	98.30
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	33497	100.000	100.07
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	611387	100.000	96.48
	74 Bromobenzene	156	9.317	9.317	(0.916)	146841	100.000	101.78
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	439647	100.000	100.80

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	378969	100.000	104.81
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	436349	100.000	106.67

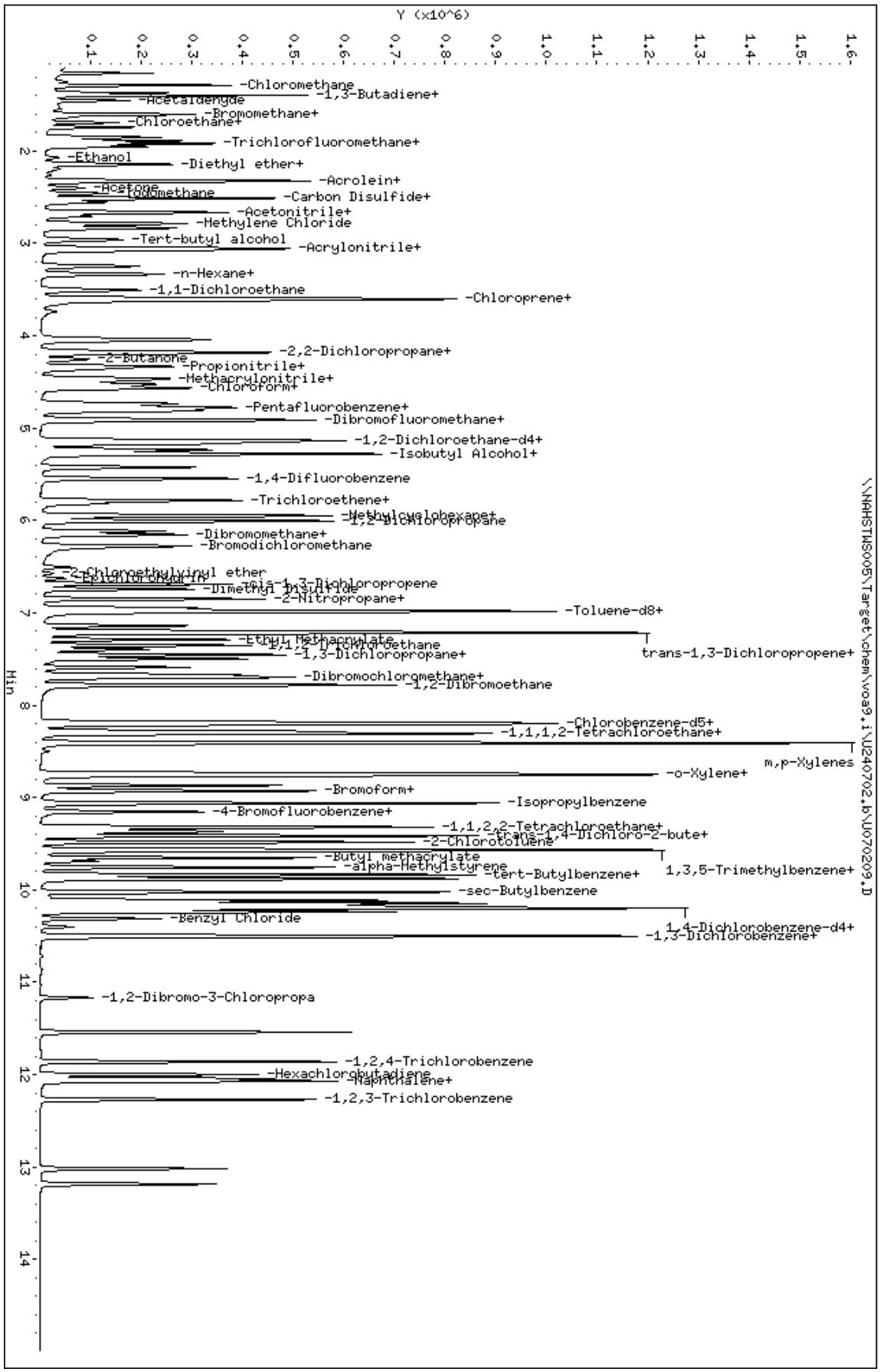
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	393724	100.000	99.51
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	422260	100.000	96.27
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	529948	100.000	98.21
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	465580	100.000	97.30
83	1,3-Dichlorobenzene	146	10.506	10.506	(1.033)	255938	100.000	90.87
84	1,4-Dichlorobenzene	146	10.506	10.506	(1.033)	255938	100.000	90.87
86	Benzyl Chloride	91	10.311	10.311	(1.260)	154303	100.000	99.84
87	n-Butylbenzene	91	10.495	10.495	(1.032)	404400	100.000	96.33
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	255938	100.000	90.87
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	21784	100.000	98.26
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	173280	100.000	100.40
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	79733	100.000	95.53
92	Naphthalene	128	12.069	12.069	(1.186)	402259	100.000	96.63
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	160952	100.000	110.04
146	Methyl acetate	43	2.705	2.705	(0.562)	97073	100.000	92.15
138	Freon TF	101	2.326	2.326	(0.484)	99714	100.000	99.04
141	Cyclohexane	56	4.778	4.778	(0.993)	184226	100.000	101.16
142	Tetrahydrofuran	42	4.534	4.534	(0.942)	41357	200.000	192.75
147	Methylcyclohexane	55	5.944	5.944	(1.071)	301909	100.000	107.46(A)
135	1,4-Dioxane	88	6.161	6.161	(1.280)	27557	2000.00	1960.00
132	n-Butanol	56	5.816	5.816	(1.209)	67557	2000.00	2061.70
136	n-Hexane	57	3.335	3.335	(0.693)	120255	100.000	100.50
139	Diethyl ether	59	2.135	2.135	(0.444)	80085	100.000	96.14
148	Tert-butyl alcohol	59	2.960	2.960	(0.615)	188946	2000.00	1907.16
149	Isopropyl alcohol	45	2.555	2.555	(0.531)	146543	2000.00	1988.62
156	Diisopropyl ether	45	3.612	3.612	(0.751)	357951	100.000	96.69
162	Butyl acrylate	55	8.733	8.733	(1.067)	227930	100.000	97.56
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	542881	100.000	98.70
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	373932	100.000	100.92
167	Ethanol	45	2.071	2.071	(0.431)	26023	2000.00	1868.05
172	tert-Butyl formate	59	5.235	5.235	(1.088)	207872	200.000	214.34(AM)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	668969	2000.00	2110.76
140	1,3-Butadiene	54	1.396	1.396	(0.290)	141491	100.000	99.34
182	Epichlorohydrin	57	6.626	6.626	(1.194)	21222	400.000	405.14
M 94	1,2-Dichloroethylene (total)	96				242158	200.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	161993	100.000	100.03
130	Ethyl Acetate	43	4.527	4.527	(0.941)	34143	100.000	95.33(M)
131	Methyl Acrylate	55	4.362	4.362	(0.907)	146177	100.000	97.38
189	n-Butyl acetate	43	7.702	7.702	(0.941)	199863	100.000	100.88
134	Cyclohexanone	55	9.153	9.153	(0.900)	120142	2000.00	1977.36
185	Isoprene	39	2.150	2.150	(0.447)	24468	100.000	100.93(M)
188	Isopropyl acetate	43	5.280	5.280	(0.951)	354763	100.000	101.82
150	Allyl alcohol	57	3.335	3.335	(0.693)	120255	2000.00	2009.98
194	Acetaldehyde	44	1.453	1.453	(0.302)	110198	400.000	379.19(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	129136	100.000	99.86
202	Isobutylene	41	1.741	1.741	(0.362)	46999	100.000	96.93(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	301909	100.000	106.36
163	Butyl methacrylate	41	9.647	9.647	(0.948)	136990	100.000	94.65
159	Propylene oxide	43	2.191	2.191	(0.455)	14408	200.000	204.12(A)
178	Ethylene oxide	44	1.599	1.599	(0.332)	216912	200.000	215.49(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	145226	100.000	99.75
204	Tetrahydrothiophene	60	7.668	7.668	(0.937)	142214	100.000	104.15(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	243029	100.000	97.56(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	211718	100.000	100.24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.918	1.918	(0.399)	165490	100.000	99.35(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070209.D
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Sample Info: VSTD100;VSTD100;1;8
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Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

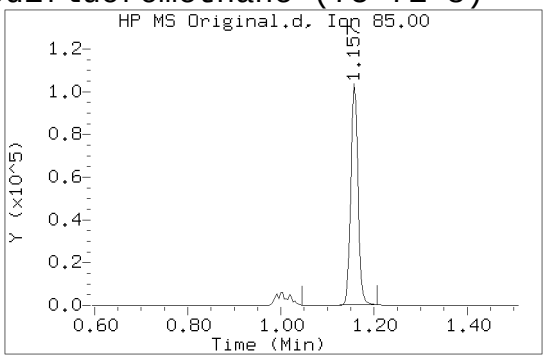
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Inj Date : 02-JUL-2024 12:39
InstruID : VOA9.i
LabSampID : VSTD100

Dichlorodifluoromethane (75-71-8)

Reason Code:

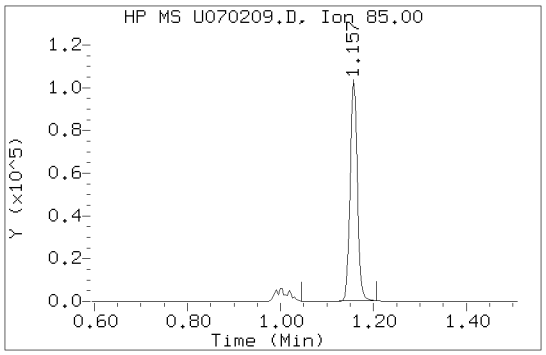
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10-Jul-2024
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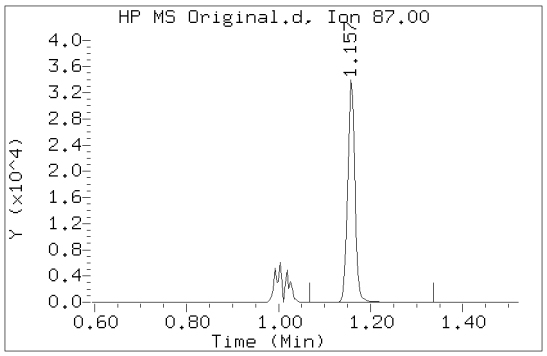
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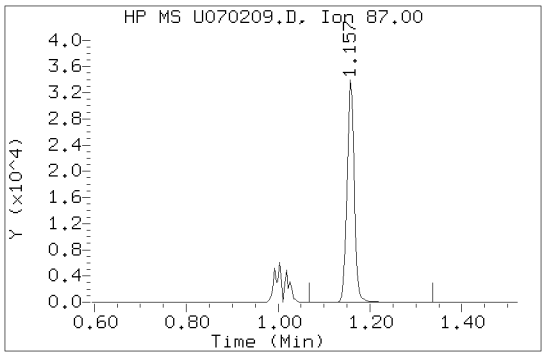
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AFTER

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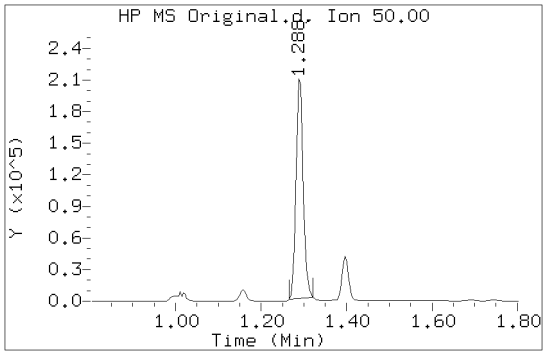


Chloromethane (74-87-3)

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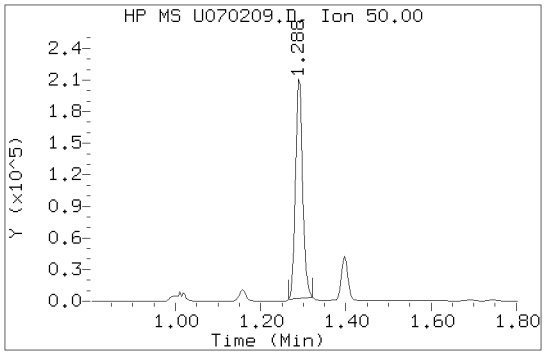
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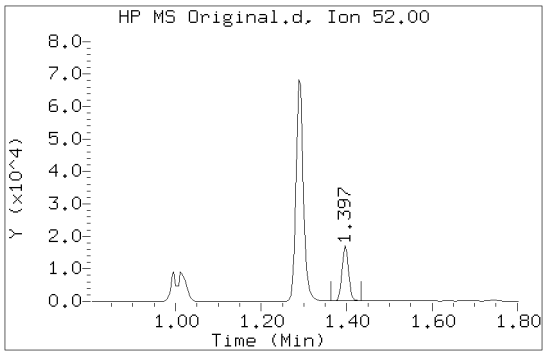
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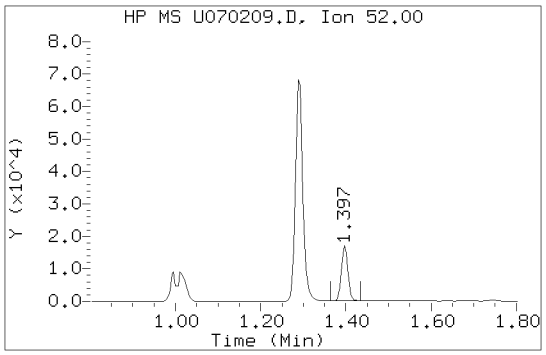
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AFTER

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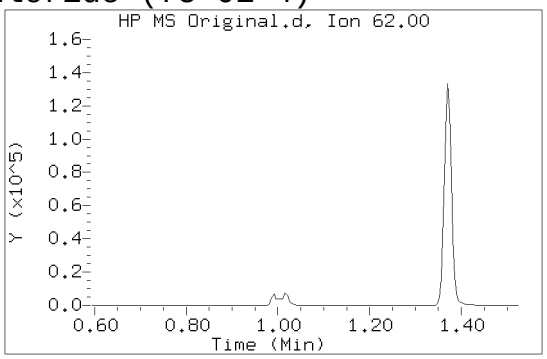


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InstruID : VOA9.i
LabSampID : VSTD100

Vinyl Chloride (75-01-4)

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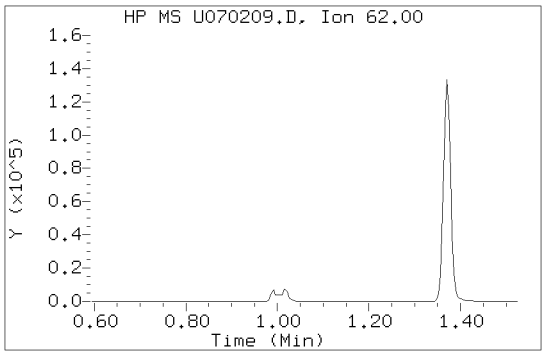
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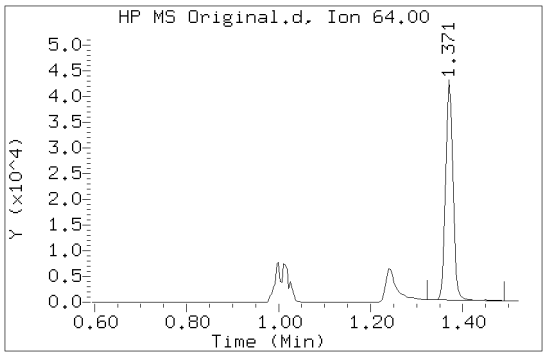
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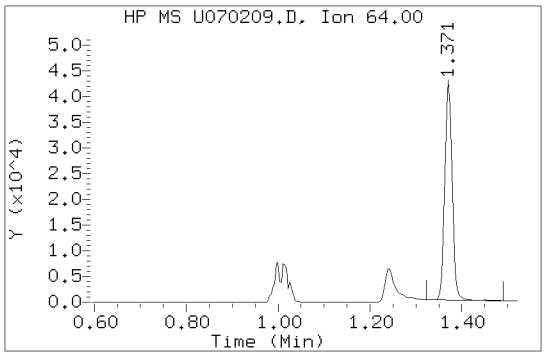
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AFTER

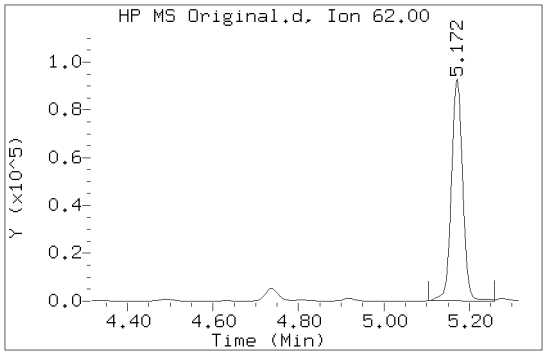
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RUCHA
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1,2-Dichloroethane (107-06-2)

BEFORE

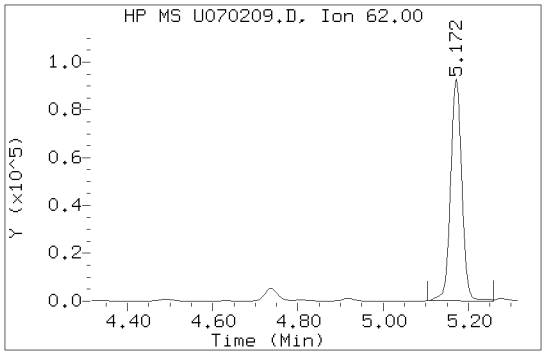
MASS
62
AREA
171067
HEIGHT
92957
10-Jul-2024
08:51
RUCHA
PATEL



Reason Code:

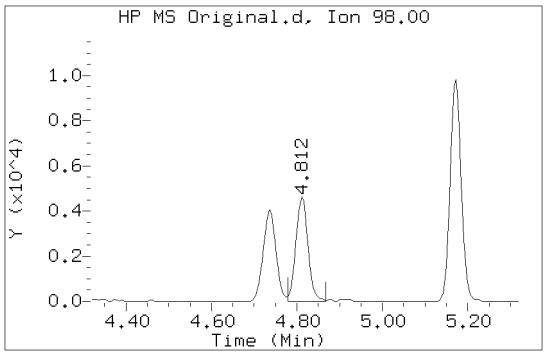
AFTER

MASS
62
AREA
171067
HEIGHT
92957
10-Jul-2024
09:57
RUCHA
PATEL



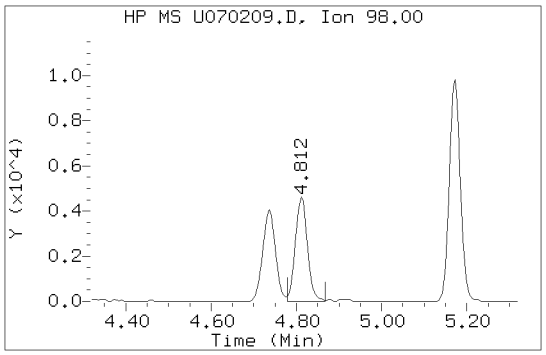
BEFORE

MASS
98
AREA
9313
HEIGHT
4629
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

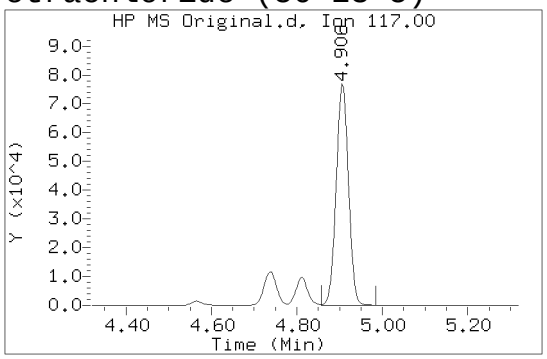
MASS
98
AREA
9313
HEIGHT
4629
10-Jul-2024
09:57
RUCHA
PATEL



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070209.D
Inj Date : 02-JUL-2024 12:39
InstruID : VOA9.i
LabSampID : VSTD100

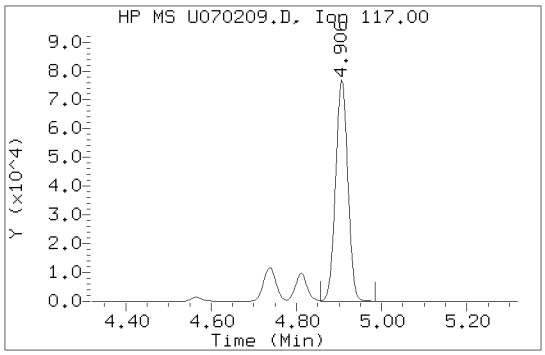
Carbon Tetrachloride (56-23-5)

BEFORE
MASS
117
AREA
153471
HEIGHT
76930
10-Jul-2024
08:51
RUCHA
PATEL

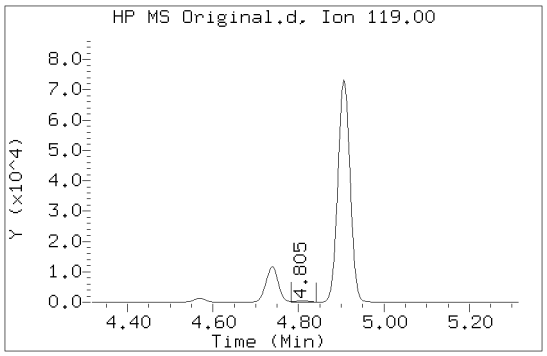


Reason Code:

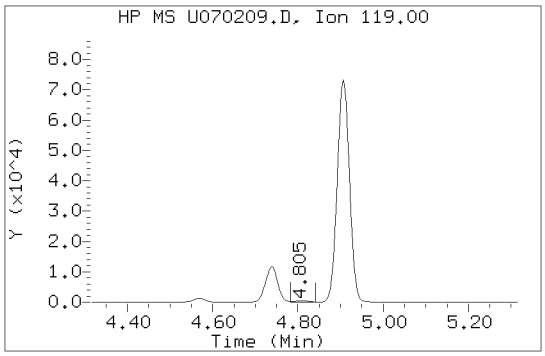
AFTER
MASS
117
AREA
153471
HEIGHT
76930
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
119
AREA
998
HEIGHT
500
10-Jul-2024
08:51
RUCHA
PATEL

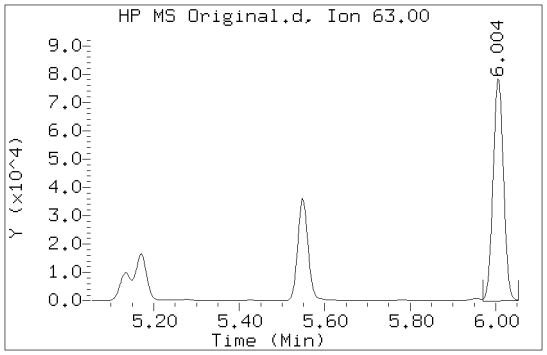


AFTER
MASS
119
AREA
998
HEIGHT
500
10-Jul-2024
09:57
RUCHA
PATEL



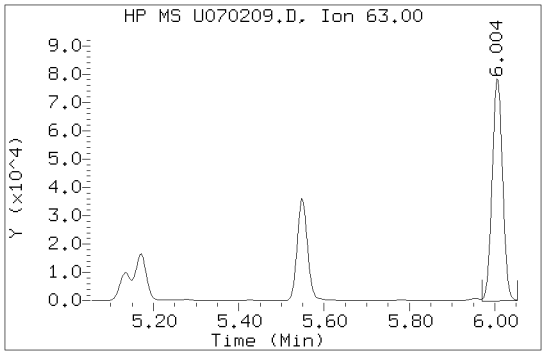
1,2-Dichloropropane (78-87-5)

BEFORE
MASS
63
AREA
133804
HEIGHT
78370
10-Jul-2024
08:51
RUCHA
PATEL

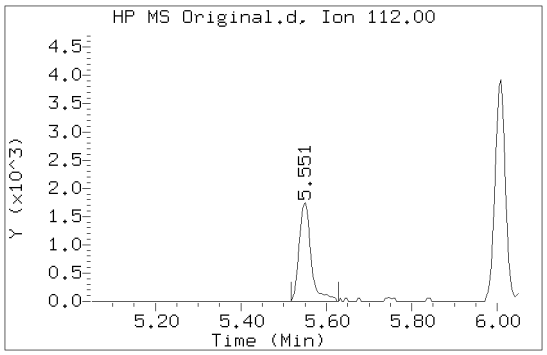


Reason Code:

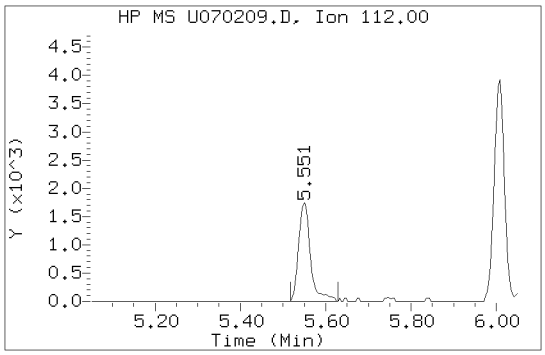
AFTER
MASS
63
AREA
133804
HEIGHT
78370
10-Jul-2024
09:57
RUCHA
PATEL



BEFORE
MASS
112
AREA
3470
HEIGHT
1752
10-Jul-2024
08:51
RUCHA
PATEL



AFTER
MASS
112
AREA
3470
HEIGHT
1752
10-Jul-2024
09:57
RUCHA
PATEL



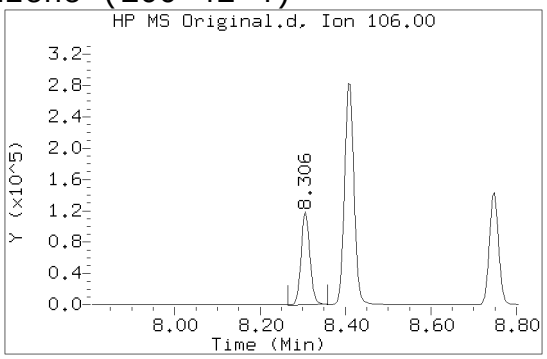
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Inj Date : 02-JUL-2024 12:39
InstruID : VOA9.i
LabSampID : VSTD100

Ethylbenzene (100-41-4)

Reason Code:

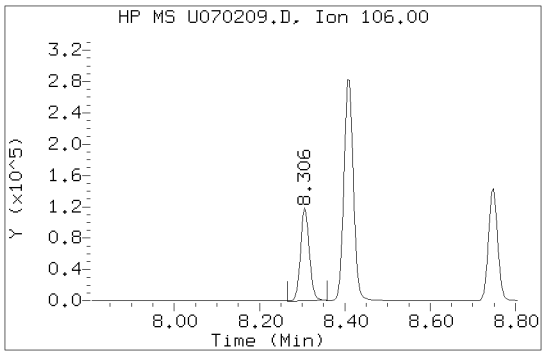
BEFORE

MASS
106
AREA
173116
HEIGHT
118745
10-Jul-2024
08:51
RUCHA
PATEL



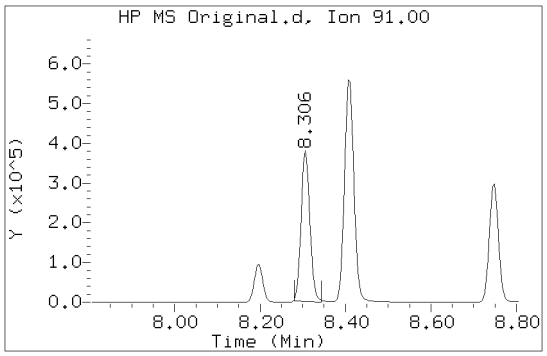
AFTER

MASS
106
AREA
173116
HEIGHT
118745
10-Jul-2024
09:57
RUCHA
PATEL



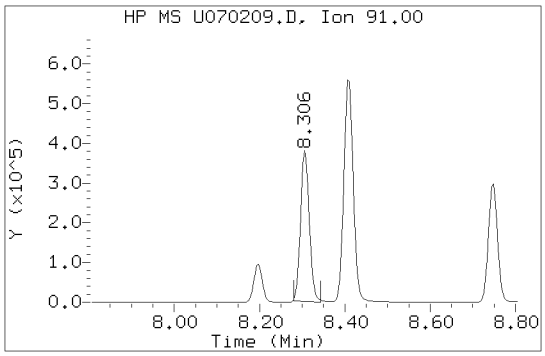
BEFORE

MASS
91
AREA
555321
HEIGHT
381305
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
91
AREA
555321
HEIGHT
381305
10-Jul-2024
09:57
RUCHA
PATEL

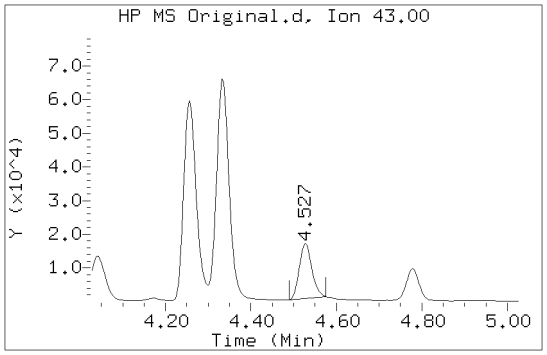


Ethyl Acetate (141-78-6)

Reason Code:

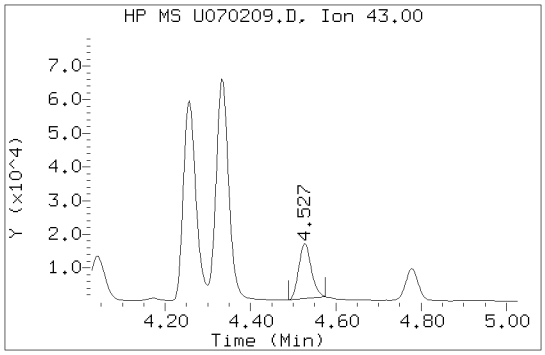
BEFORE

MASS
43
AREA
34143
HEIGHT
16406
10-Jul-2024
08:51
RUCHA
PATEL



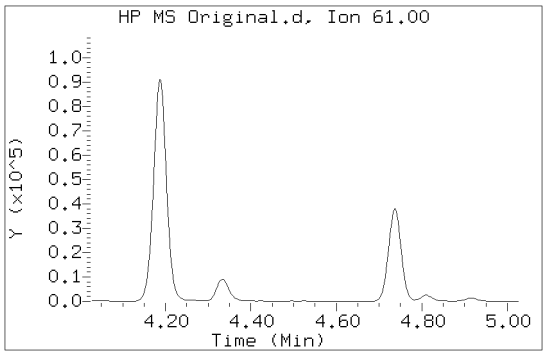
AFTER

MASS
43
AREA
34143
HEIGHT
16406
10-Jul-2024
09:57
RUCHA
PATEL



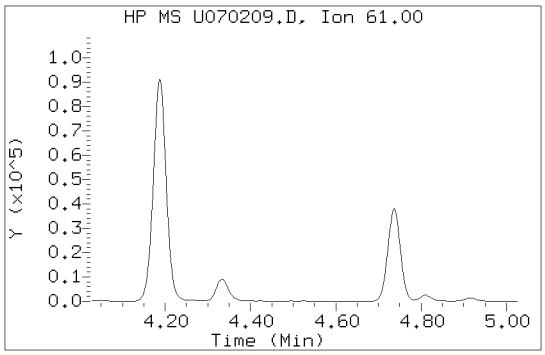
BEFORE

MASS
61
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



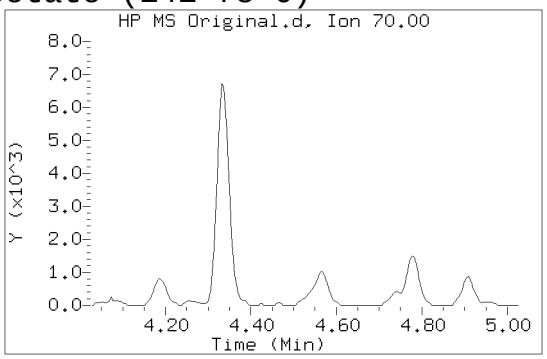
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070209.D
Inj Date : 02-JUL-2024 12:39
InstruID : VOA9.i
LabSampID : VSTD100

Ethyl Acetate (141-78-6)

Reason Code:

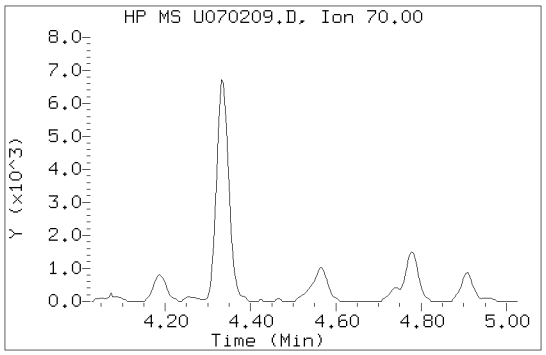
BEFORE

MASS
70
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

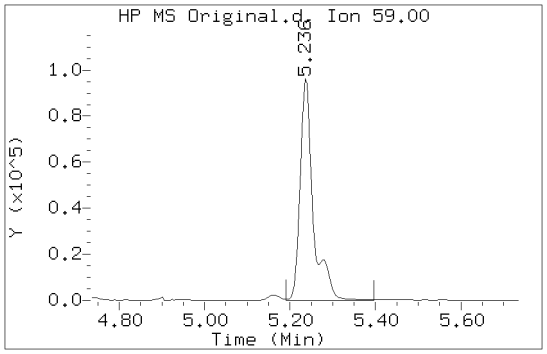


tert-Butyl formate (762-75-4)

Reason Code:

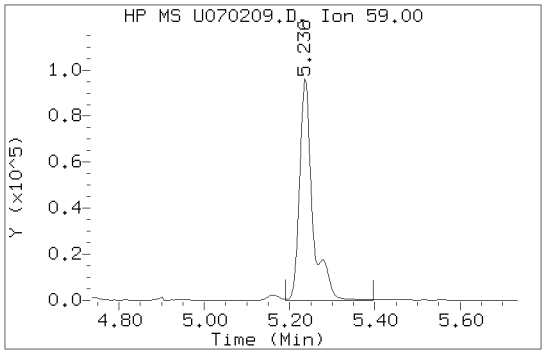
BEFORE

MASS
59
AREA
207872
HEIGHT
96098
10-Jul-2024
08:51
RUCHA
PATEL



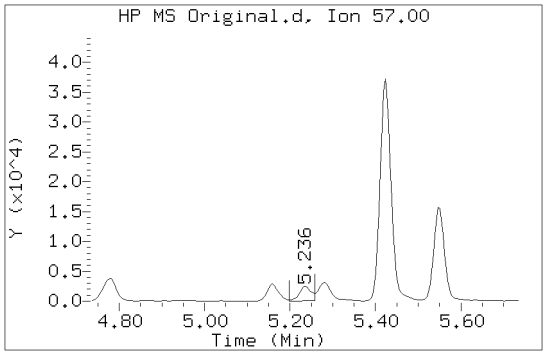
AFTER

MASS
59
AREA
207872
HEIGHT
96098
10-Jul-2024
09:57
RUCHA
PATEL



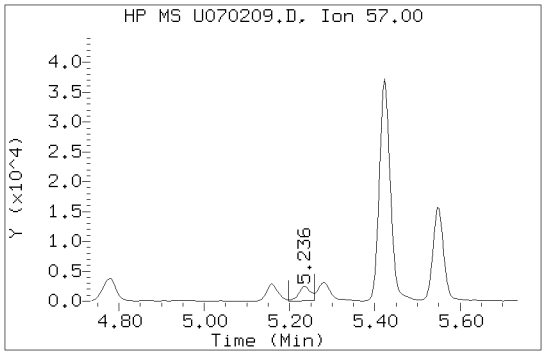
BEFORE

MASS
57
AREA
4837
HEIGHT
2454
10-Jul-2024
08:51
RUCHA
PATEL



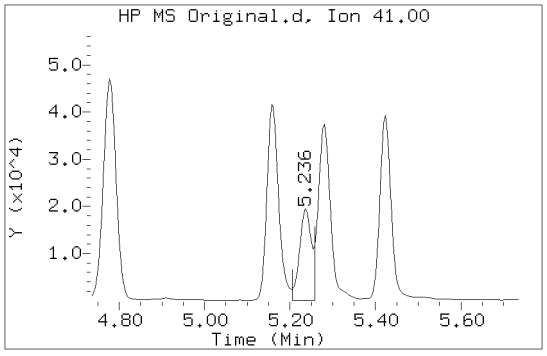
AFTER

MASS
57
AREA
4837
HEIGHT
2454
10-Jul-2024
09:57
RUCHA
PATEL



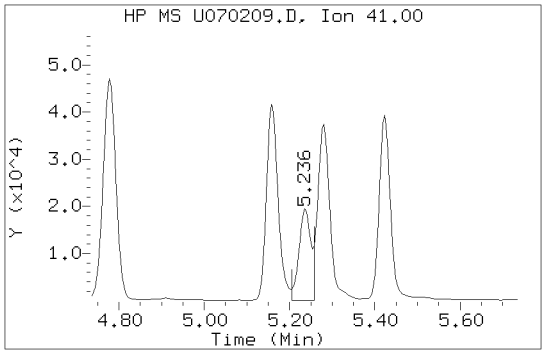
BEFORE

MASS
41
AREA
39632
HEIGHT
19368
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
41
AREA
39632
HEIGHT
19368
10-Jul-2024
09:57
RUCHA
PATEL



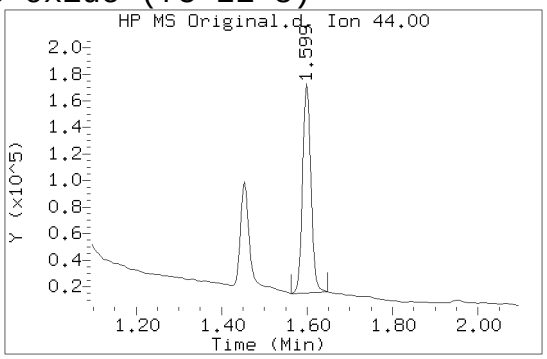
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070209.D
Inj Date : 02-JUL-2024 12:39
InstruID : VOA9.i
LabSampID : VSTD100

Ethylene oxide (75-21-8)

Reason Code:

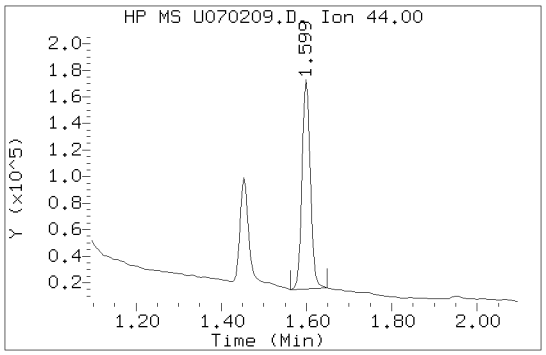
BEFORE

MASS
44
AREA
216912
HEIGHT
157572
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
44
AREA
216912
HEIGHT
157572
10-Jul-2024
09:57
RUCHA
PATEL

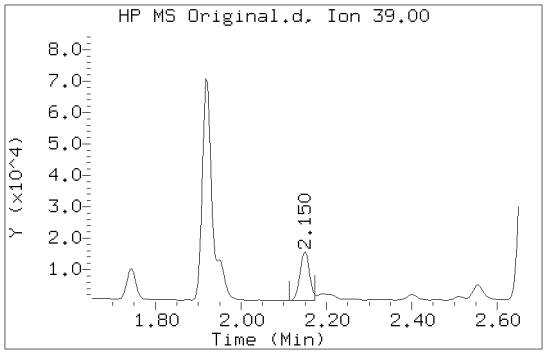


Isoprene (78-79-5)

Reason Code:

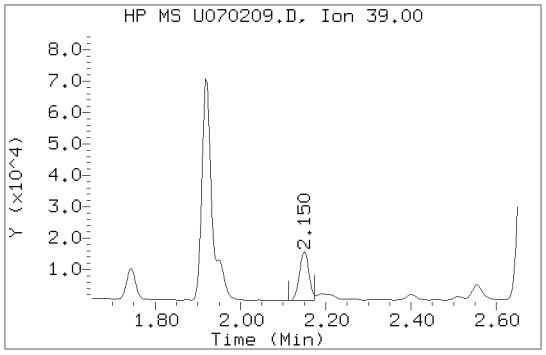
BEFORE

MASS
39
AREA
24468
HEIGHT
15458
10-Jul-2024
08:51
RUCHA
PATEL



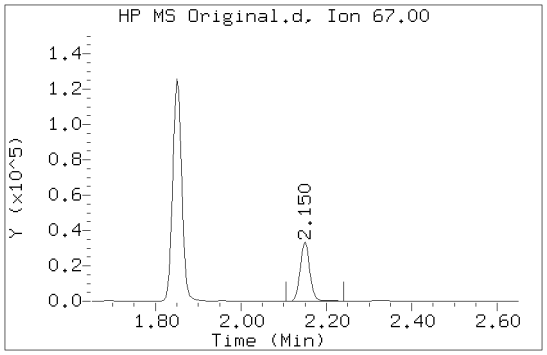
AFTER

MASS
39
AREA
24468
HEIGHT
15458
10-Jul-2024
09:57
RUCHA
PATEL



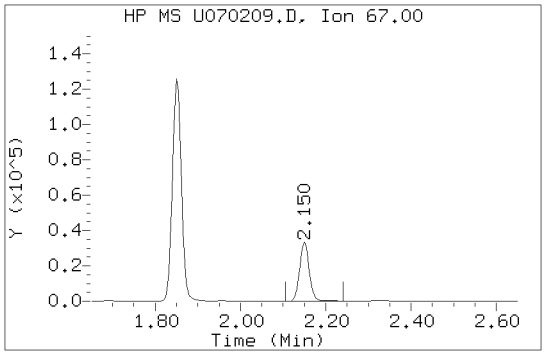
BEFORE

MASS
67
AREA
53248
HEIGHT
33512
10-Jul-2024
08:51
RUCHA
PATEL



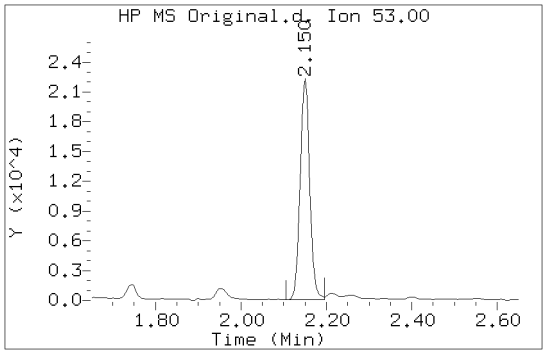
AFTER

MASS
67
AREA
53248
HEIGHT
33512
10-Jul-2024
09:57
RUCHA
PATEL



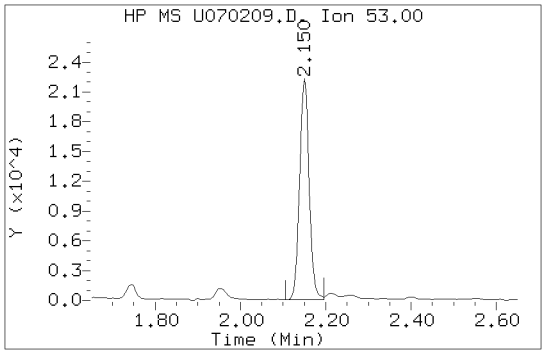
BEFORE

MASS
53
AREA
35239
HEIGHT
22272
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
53
AREA
35239
HEIGHT
22272
10-Jul-2024
09:57
RUCHA
PATEL



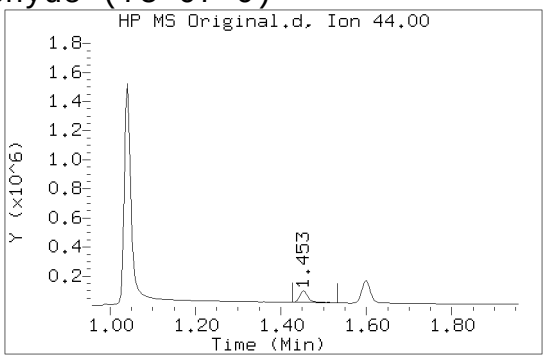
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Inj Date : 02-JUL-2024 12:39
InstruID : VOA9.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

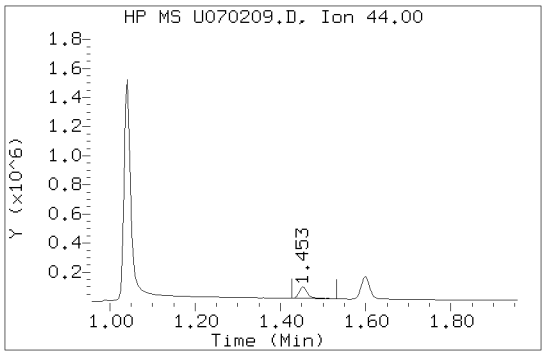
BEFORE

MASS
44
AREA
110198
HEIGHT
79059
10-Jul-2024
08:51
RUCHA
PATEL



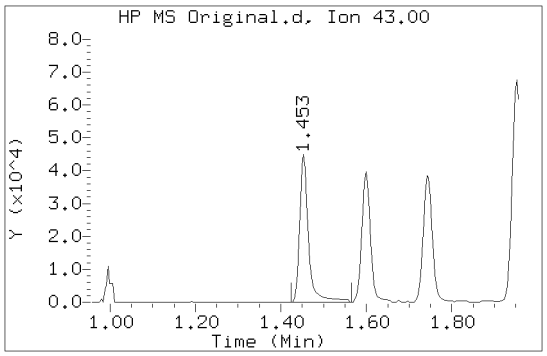
AFTER

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44
AREA
110198
HEIGHT
79059
10-Jul-2024
09:57
RUCHA
PATEL



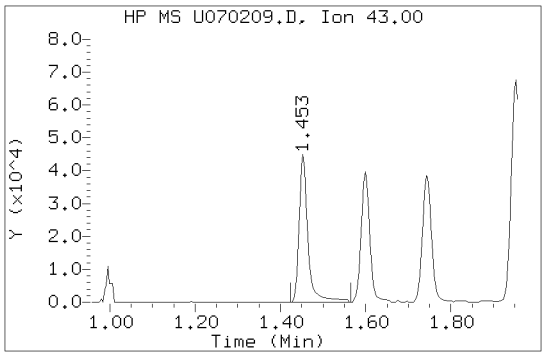
BEFORE

MASS
43
AREA
66353
HEIGHT
45032
10-Jul-2024
08:51
RUCHA
PATEL



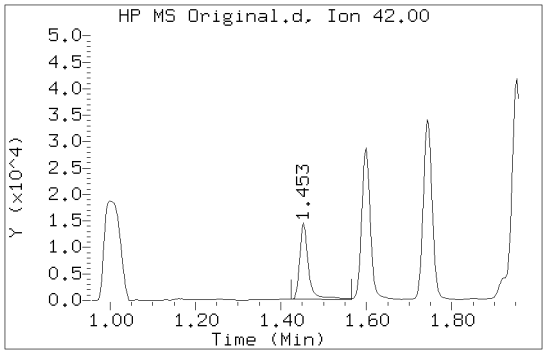
AFTER

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AREA
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HEIGHT
45032
10-Jul-2024
09:57
RUCHA
PATEL



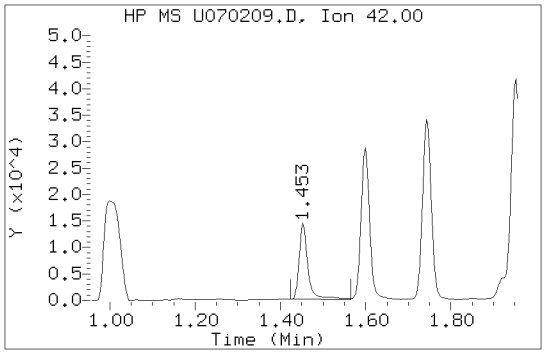
BEFORE

MASS
42
AREA
21137
HEIGHT
14443
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
42
AREA
21137
HEIGHT
14443
10-Jul-2024
09:57
RUCHA
PATEL

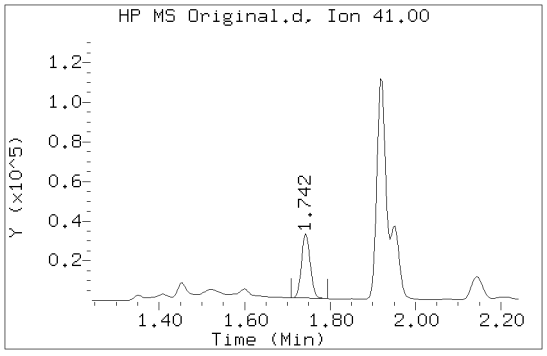


Isobutylene (115-11-7)

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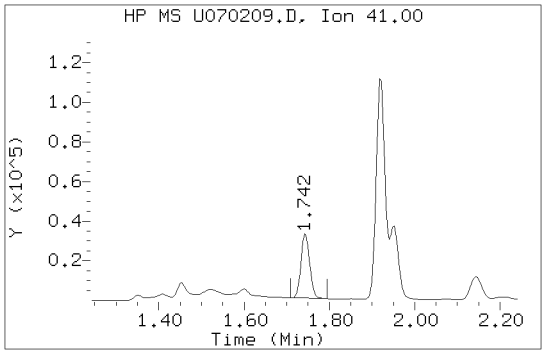
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10-Jul-2024
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AFTER

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10-Jul-2024
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RUCHA
PATEL



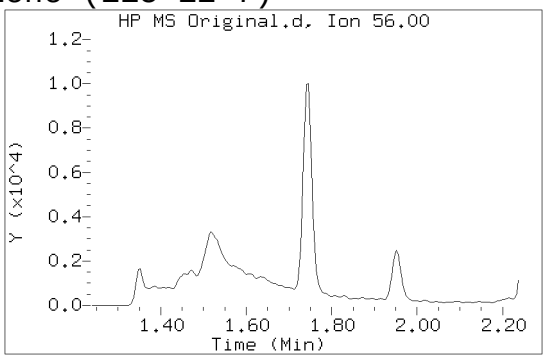
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LabSampID : VSTD100

Isobutylene (115-11-7)

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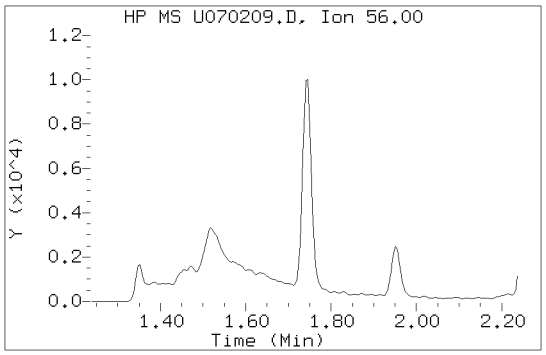
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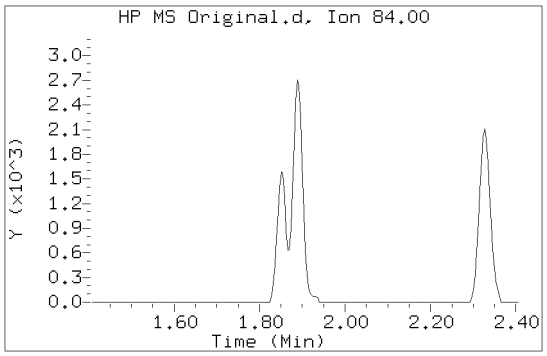
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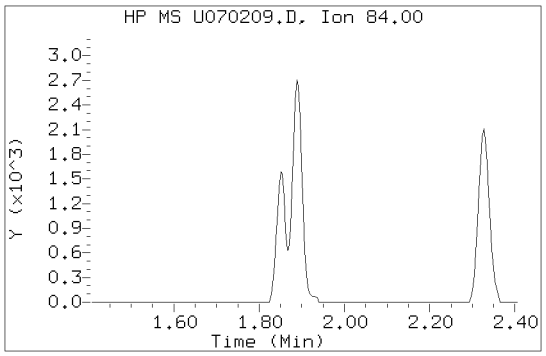
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AFTER

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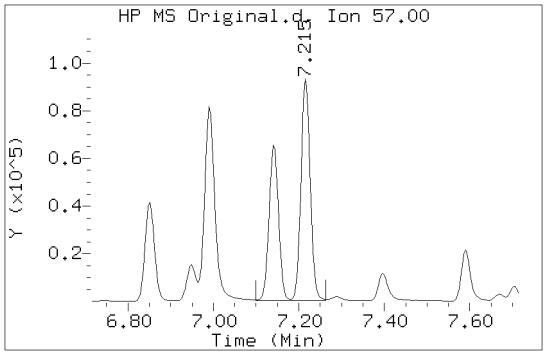


sec-Butyl Ether (6863-58-7)

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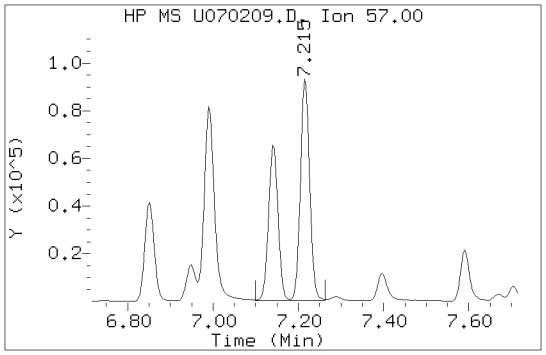
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AFTER

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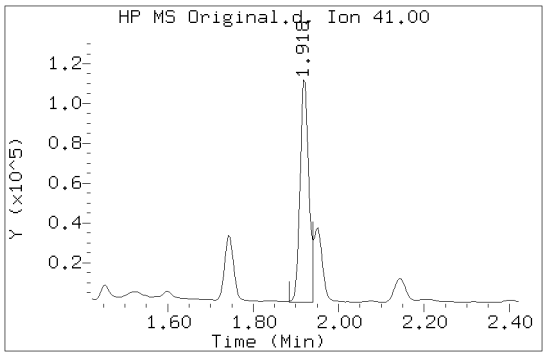


2-Chloropropene (557-98-2)

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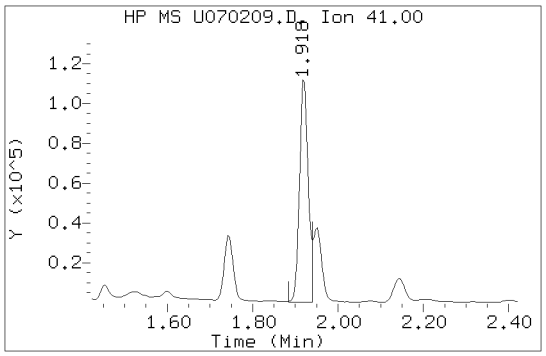
BEFORE

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10-Jul-2024
08:51
RUCHA
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AFTER

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HEIGHT
111483
10-Jul-2024
09:57
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070210.D Page 1
Report Date: 10-Jul-2024 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070210.D
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Inj Date : 02-JUL-2024 13:00
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 10-Jul-2024 09:57 VOA9.i Quant Type: ISTD
Cal Date : 02-JUL-2024 12:39 Cal File: U070209.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	200237	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	158291	150.000	150.76(M)
3 Chloromethane	50	1.299	1.299	(0.270)	345753	150.000	151.70(M)
4 Propionitrile	54	4.335	4.335	(0.900)	254311	1500.00	1485.85
5 Vinyl Chloride	62	1.381	1.381	(0.287)	214644	150.000	160.00(M)
6 Bromomethane	94	1.617	1.617	(0.336)	78414	150.000	152.42
7 Chloroethane	64	1.704	1.704	(0.354)	136323	150.000	140.65
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	256887	150.000	171.32
9 Acrolein	56	2.266	2.266	(0.471)	17834	300.000	316.17
10 Acetone	43	2.408	2.408	(0.500)	113656	300.000	308.83
11 1,1-Dichloroethene	96	2.333	2.333	(0.485)	140551	150.000	154.63
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	522986	3000.00	3136.22
13 Acetonitrile	39	2.675	2.675	(0.555)	181152	1500.00	1517.69
14 Allyl Chloride	41	2.675	2.675	(0.555)	415257	150.000	137.98
15 Iodomethane	142	2.468	2.468	(0.513)	221517	300.000	264.98
16 Acrylonitrile	53	3.068	3.068	(0.637)	117413	300.000	303.04
17 Methylene Chloride	84	2.794	2.794	(0.580)	174596	150.000	149.78
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	423765	150.000	144.37
19 Carbon Disulfide	76	2.521	2.521	(0.524)	813583	300.000	314.84
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	154563	150.000	148.91

21 Vinyl Acetate	43	4.339	4.339 (0.901)	198969	300.000	305.08
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	283575	150.000	140.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	250212	150.000	163.28
	24 2-Butanone	43	4.264	4.264	(0.886)	178725	300.000	291.32
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	120735	150.000	153.65(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	231124	150.000	148.67
	27 cis-1,2-Dichloroethene	96	4.196	4.196	(0.872)	193490	150.000	149.89
	28 Chloroform	83	4.571	4.571	(0.949)	314954	150.000	143.65
	29 Bromochloromethane	128	4.470	4.470	(0.928)	96555	150.000	149.45
$	30 Dibromofluoromethane	113	4.920	4.920	(1.022)	3825	150.000	2.88
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	260946	150.000	148.46
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	234551	150.000	157.20
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	243732	150.000	141.29(M)
	34 Carbon Tetrachloride	117	4.912	4.912	(0.885)	221275	150.000	147.98(M)
$	35 1,2-Dichloroethane-d4	65	5.175	5.175	(1.075)	9885	150.000	6.32
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	291301	50.0000	
	37 Benzene	78	5.137	5.137	(0.925)	719983	150.000	143.21
	38 Trichloroethene	130	5.790	5.790	(1.043)	185955	150.000	154.94
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	239098	150.000	160.31
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	72145	150.000	159.68
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	19456	300.000	298.26
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	191857	150.000	144.03(M)
	43 2-Nitropropane	43	6.851	6.851	(1.423)	386469	150.000	154.93
	44 Dibromomethane	93	6.120	6.120	(1.102)	113972	150.000	147.18
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	386469	300.000	312.05
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	289902	150.000	149.47
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	264986	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	2319	150.000	0.50(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	264747	150.000	168.51
	50 Toluene	91	6.982	6.982	(0.853)	794291	150.000	161.62
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.296)	235238	150.000	148.17
	52 2-Hexanone	43	7.218	7.218	(0.882)	239130	300.000	303.13
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	141189	150.000	145.49
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	300498	150.000	148.76
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	191723	150.000	169.82
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	146739	150.000	147.07
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	169171	150.000	160.37
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	139425	150.000	147.87
	59 Chlorobenzene	112	8.208	8.208	(1.003)	485721	150.000	144.20
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	177627	150.000	160.27
	61 Ethylbenzene	106	8.305	8.305	(1.015)	248379	150.000	162.01(M)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	629716	300.000	296.63
	63 o-Xylene	106	8.747	8.747	(1.069)	308468	150.000	147.99
	64 Styrene	104	8.762	8.762	(1.071)	536704	150.000	150.21
	66 Bromoform	173	8.920	8.920	(1.090)	128212	150.000	147.86
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	789608	150.000	148.02
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	237645	150.000	144.67
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	1986	150.000	1.13(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	144648	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	239518	150.000	149.37
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	48510	150.000	152.46
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	896444	150.000	143.91
	74 Bromobenzene	156	9.317	9.317	(0.916)	214923	150.000	152.44
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	654297	150.000	149.08

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	548210	150.000	155.15
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	637179	150.000	159.40

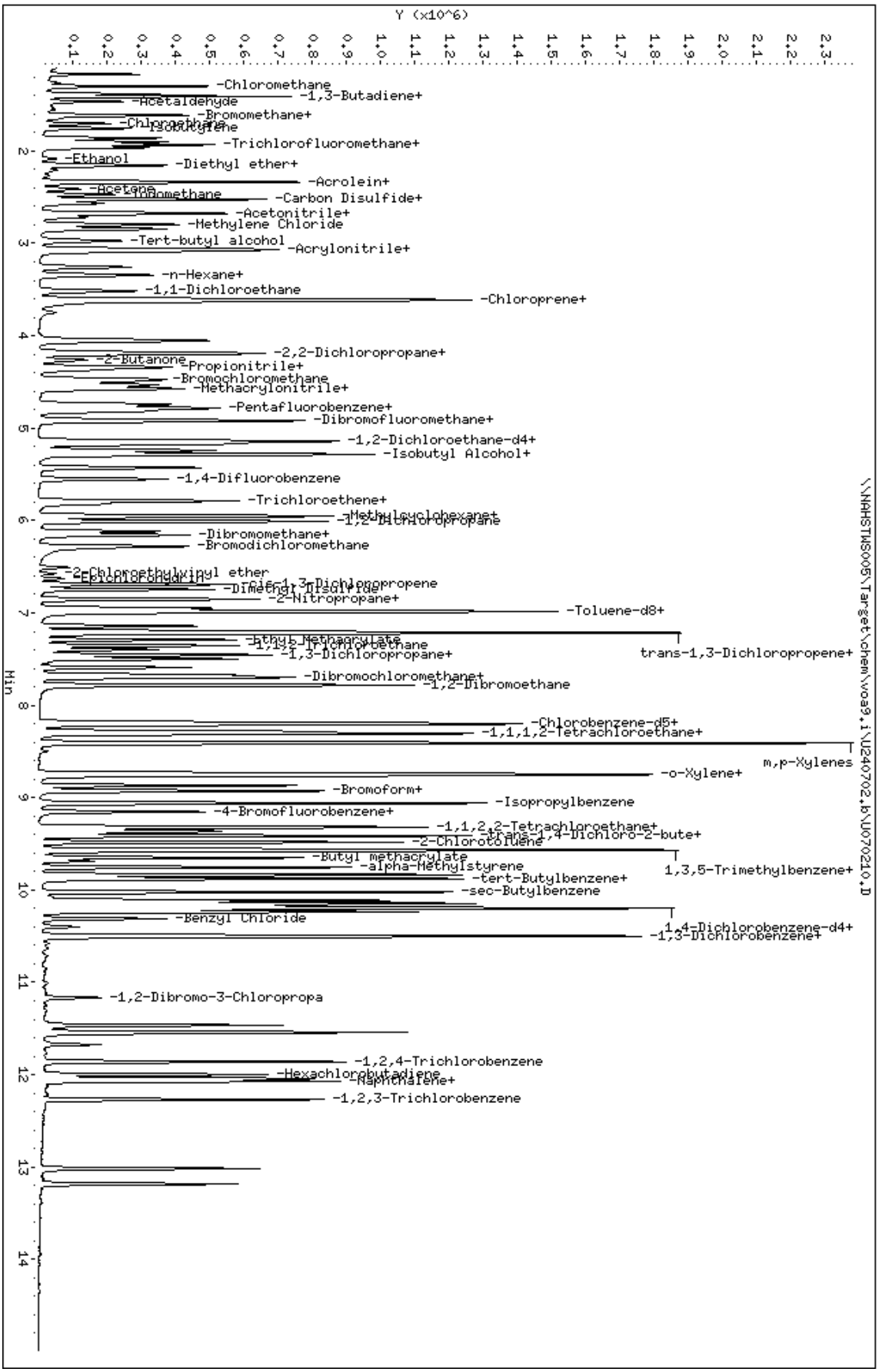
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	565442	150.000	145.87
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	632344	150.000	146.20
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	776552	150.000	146.62
82	p-Isopropyltoluene	119	10.149	10.149	(0.998)	691746	150.000	146.62
83	1,3-Dichlorobenzene	146	10.506	10.506	(1.033)	376060	150.000	136.63
84	1,4-Dichlorobenzene	146	10.506	10.506	(1.033)	376060	150.000	136.63
86	Benzyl Chloride	91	10.311	10.311	(1.260)	238060	150.000	150.39
87	n-Butylbenzene	91	10.494	10.494	(1.032)	607850	150.000	147.11
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	376060	150.000	136.63
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	35189	150.000	151.94
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	262684	150.000	148.93
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	123257	150.000	150.33
92	Naphthalene	128	12.069	12.069	(1.186)	598755	150.000	145.75
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	245246	150.000	171.59
146	Methyl acetate	43	2.716	2.716	(0.564)	140524	150.000	140.25
138	Freon TF	101	2.337	2.337	(0.485)	141787	150.000	147.85
141	Cyclohexane	56	4.785	4.785	(0.994)	252660	150.000	146.50
142	Tetrahydrofuran	42	4.541	4.541	(0.943)	62075	300.000	304.12
147	Methylcyclohexane	55	5.947	5.947	(1.071)	456560	150.000	168.61(A)
135	1,4-Dioxane	88	6.165	6.165	(1.280)	39853	3000.00	2977.54
132	n-Butanol	56	5.820	5.820	(1.209)	106362	3000.00	3412.69
136	n-Hexane	57	3.342	3.342	(0.694)	168148	150.000	147.57
139	Diethyl ether	59	2.146	2.146	(0.446)	119788	150.000	150.99
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	284941	3000.00	3018.79
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	214979	3000.00	3016.21
156	Diisopropyl ether	45	3.623	3.623	(0.752)	548023	150.000	155.63
162	Butyl acrylate	55	8.732	8.732	(1.067)	364981	150.000	151.28
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	818680	150.000	148.43
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	574374	150.000	158.63
167	Ethanol	45	2.086	2.086	(0.433)	40221	3000.00	3039.35
172	tert-Butyl formate	59	5.242	5.242	(1.089)	320503	300.000	347.46(AM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	1058491	3000.00	3465.11
140	1,3-Butadiene	54	1.407	1.407	(0.292)	202283	150.000	149.20
182	Epichlorohydrin	57	6.629	6.629	(1.194)	35249	600.000	598.61
M 94	1,2-Dichloroethylene (total)	96				348053	300.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	255662	150.000	151.22
130	Ethyl Acetate	43	4.534	4.534	(0.942)	50925	150.000	157.85(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	218017	150.000	152.70
189	n-Butyl acetate	43	7.705	7.705	(0.941)	306282	150.000	160.33
134	Cyclohexanone	55	9.152	9.152	(0.900)	179671	3000.00	3026.08
185	Isoprene	39	2.161	2.161	(0.449)	34802	150.000	151.04(M)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	518782	150.000	154.48
150	Allyl alcohol	57	3.342	3.342	(0.694)	168148	3000.00	2951.55
194	Acetaldehyde	44	1.464	1.464	(0.304)	161541	600.000	584.42(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	223653	150.000	110.22
202	Isobutylene	41	1.752	1.752	(0.364)	71720	150.000	155.41(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	456560	150.000	169.11
163	Butyl methacrylate	41	9.651	9.651	(0.949)	189241	150.000	133.80
159	Propylene oxide	43	2.202	2.202	(0.457)	19978	300.000	285.56(A)
178	Ethylene oxide	44	1.610	1.610	(0.334)	312387	300.000	326.28(M)
203	2-Ethylhexyl Acrylate	55	12.042	12.042	(1.184)	250573	150.000	150.00
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	210392	150.000	159.81(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	377301	150.000	157.09(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	321191	150.000	157.72

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.932	1.932	(0.401)	249559	150.000	157.52(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240702,b\U070210.D
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Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

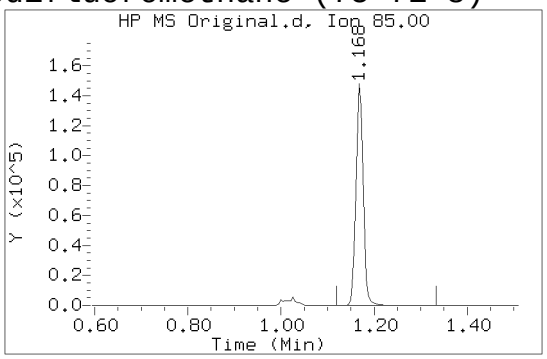
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Inj Date : 02-JUL-2024 13:00
InstruID : VOA9.i
LabSampID : VSTD150

Dichlorodifluoromethane (75-71-8)

Reason Code:

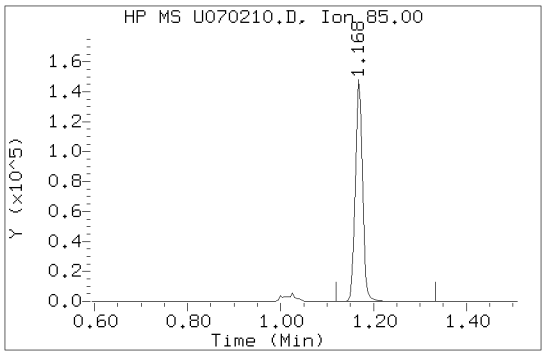
BEFORE

MASS
85
AREA
158291
HEIGHT
148032
10-Jul-2024
08:51
RUCHA
PATEL



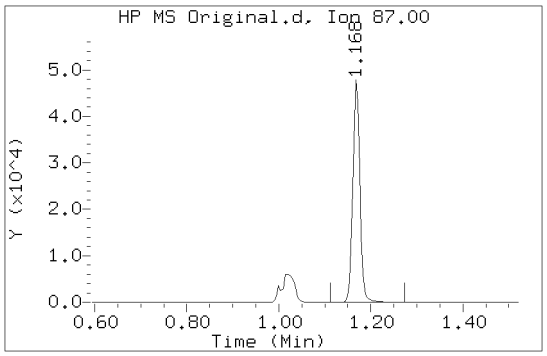
AFTER

MASS
85
AREA
158291
HEIGHT
148032
10-Jul-2024
09:57
RUCHA
PATEL



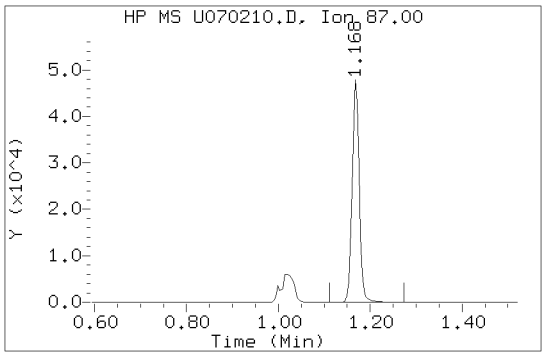
BEFORE

MASS
87
AREA
51314
HEIGHT
47856
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
87
AREA
51314
HEIGHT
47856
10-Jul-2024
09:57
RUCHA
PATEL

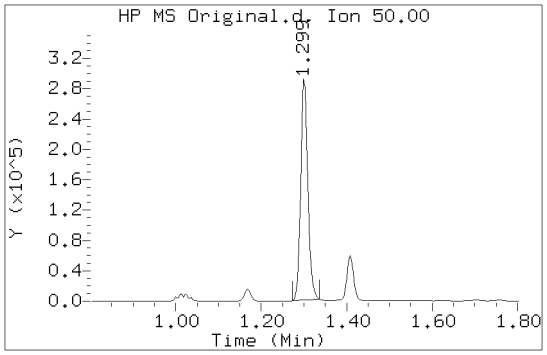


Chloromethane (74-87-3)

Reason Code:

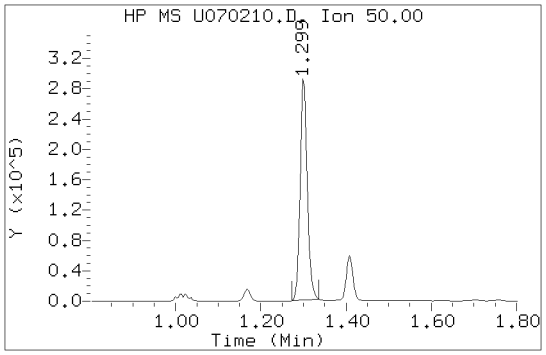
BEFORE

MASS
50
AREA
345753
HEIGHT
291367
10-Jul-2024
08:51
RUCHA
PATEL



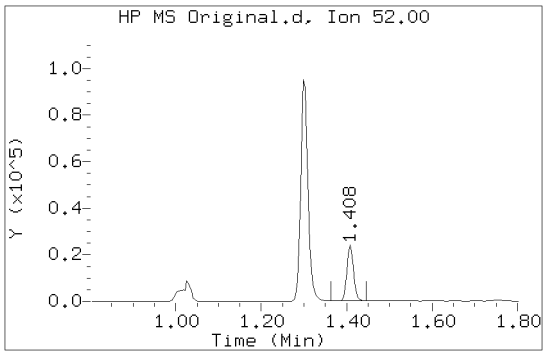
AFTER

MASS
50
AREA
345753
HEIGHT
291367
10-Jul-2024
09:57
RUCHA
PATEL



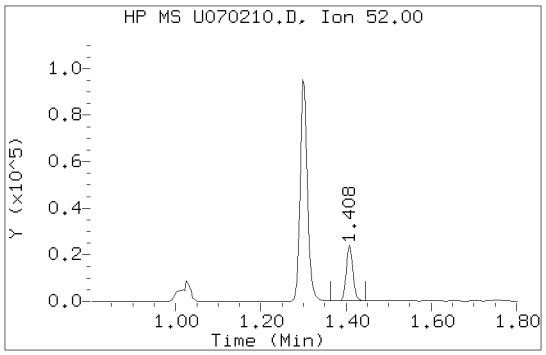
BEFORE

MASS
52
AREA
25066
HEIGHT
23797
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
52
AREA
25066
HEIGHT
23797
10-Jul-2024
09:57
RUCHA
PATEL



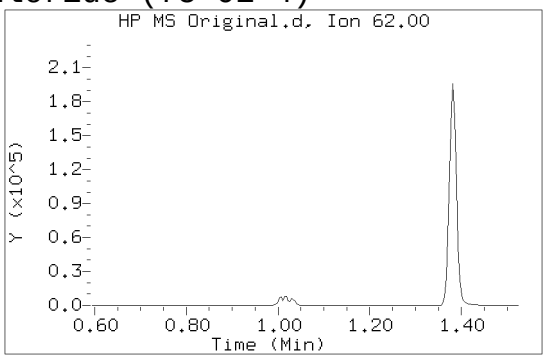
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070210.D
Inj Date : 02-JUL-2024 13:00
InstruID : VOA9.i
LabSampID : VSTD150

Vinyl Chloride (75-01-4)

Reason Code:

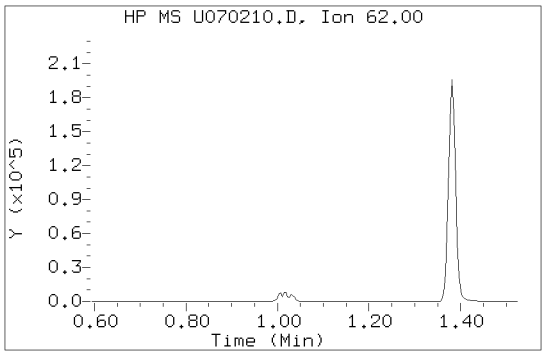
BEFORE

MASS
62
AREA
214644
HEIGHT
195951
10-Jul-2024
08:51
RUCHA
PATEL



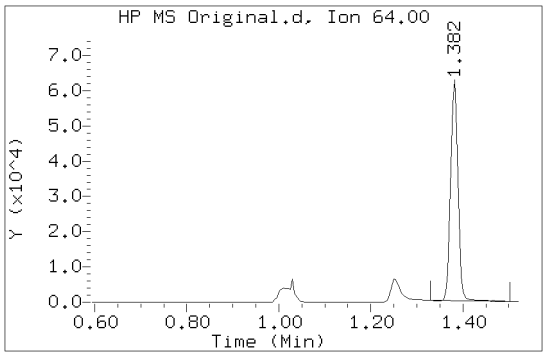
AFTER

MASS
62
AREA
214644
HEIGHT
195951
10-Jul-2024
09:57
RUCHA
PATEL



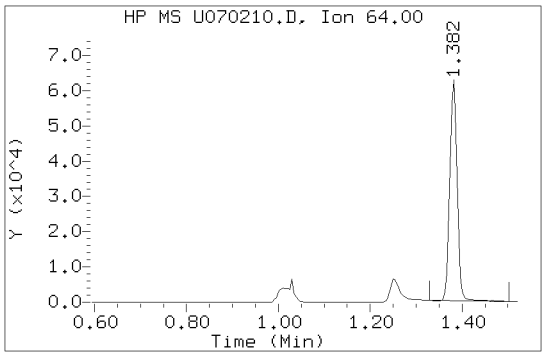
BEFORE

MASS
64
AREA
68942
HEIGHT
62594
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
64
AREA
68942
HEIGHT
62594
10-Jul-2024
09:57
RUCHA
PATEL

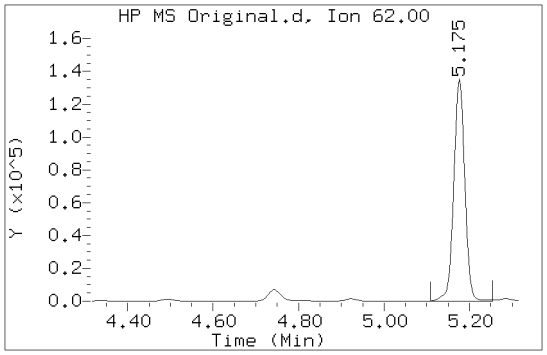


1,2-Dichloroethane (107-06-2)

Reason Code:

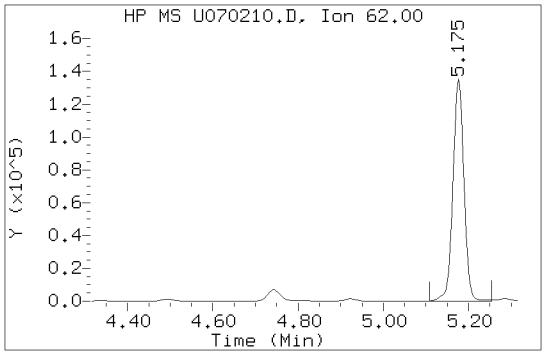
BEFORE

MASS
62
AREA
243732
HEIGHT
135410
10-Jul-2024
08:51
RUCHA
PATEL



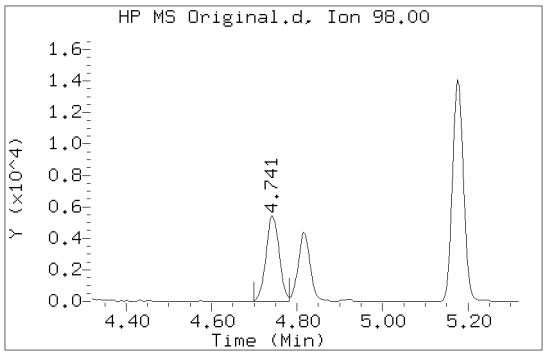
AFTER

MASS
62
AREA
243732
HEIGHT
135410
10-Jul-2024
09:57
RUCHA
PATEL



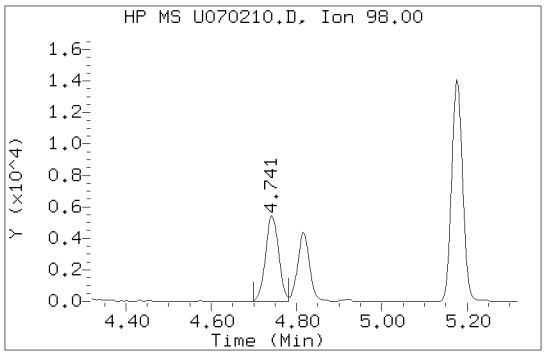
BEFORE

MASS
98
AREA
11654
HEIGHT
5474
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
98
AREA
11654
HEIGHT
5474
10-Jul-2024
09:57
RUCHA
PATEL



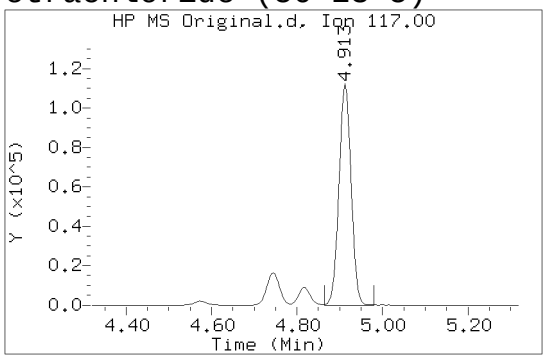
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070210.D
Inj Date : 02-JUL-2024 13:00
InstruID : VOA9.i
LabSampID : VSTD150

Carbon Tetrachloride (56-23-5)

Reason Code:

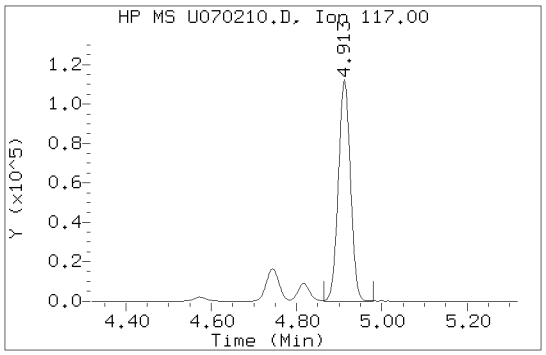
BEFORE

MASS
117
AREA
221275
HEIGHT
112425
10-Jul-2024
08:51
RUCHA
PATEL



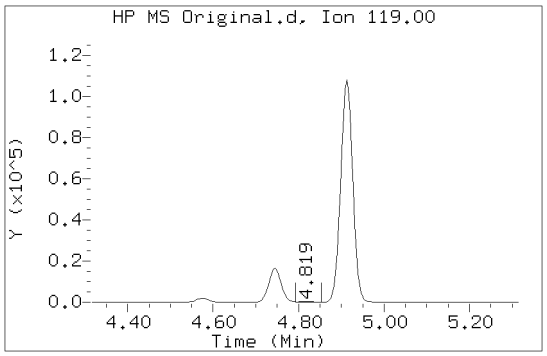
AFTER

MASS
117
AREA
221275
HEIGHT
112425
10-Jul-2024
09:57
RUCHA
PATEL



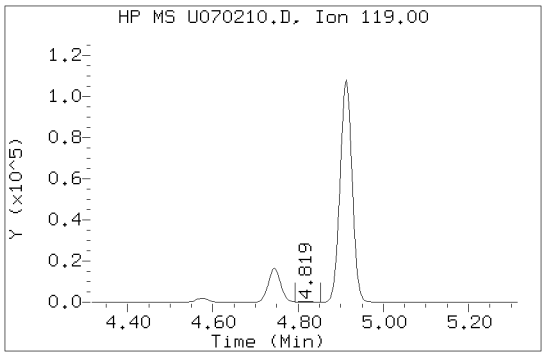
BEFORE

MASS
119
AREA
821
HEIGHT
388
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
119
AREA
821
HEIGHT
388
10-Jul-2024
09:57
RUCHA
PATEL

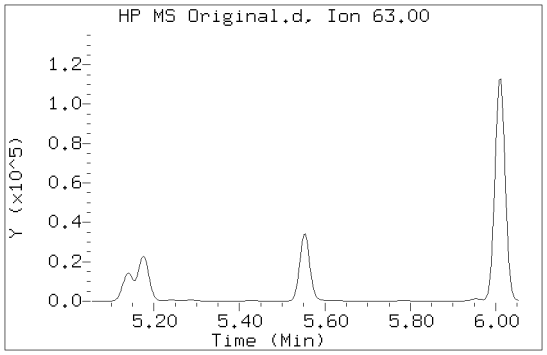


1,2-Dichloropropane (78-87-5)

Reason Code:

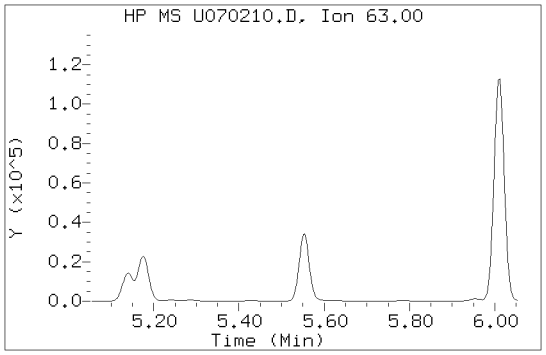
BEFORE

MASS
63
AREA
191857
HEIGHT
112876
10-Jul-2024
08:51
RUCHA
PATEL



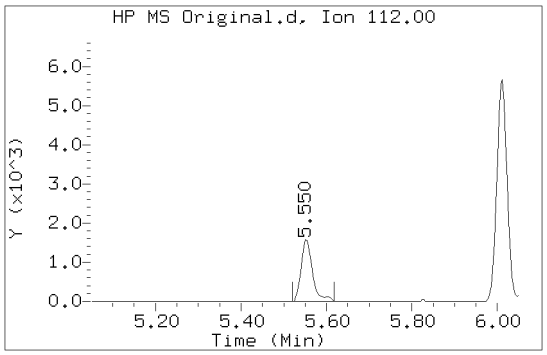
AFTER

MASS
63
AREA
191857
HEIGHT
112876
10-Jul-2024
09:57
RUCHA
PATEL



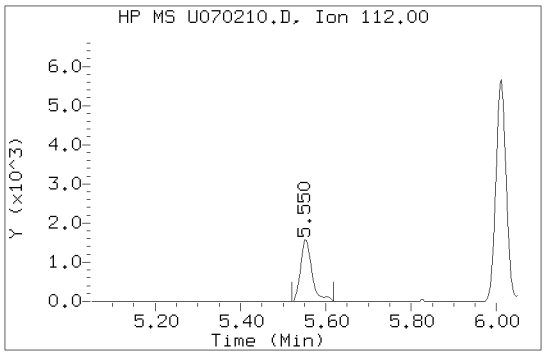
BEFORE

MASS
112
AREA
2977
HEIGHT
1577
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
112
AREA
2977
HEIGHT
1577
10-Jul-2024
09:57
RUCHA
PATEL



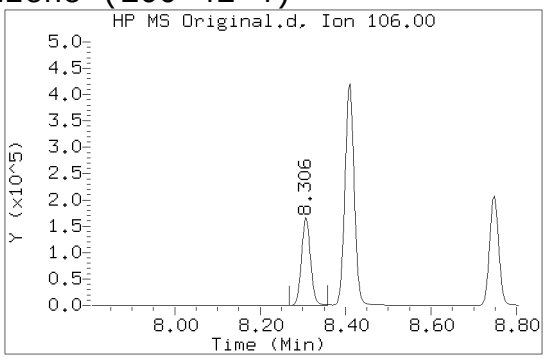
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070210.D
Inj Date : 02-JUL-2024 13:00
InstruID : VOA9.i
LabSampID : VSTD150

Ethylbenzene (100-41-4)

Reason Code:

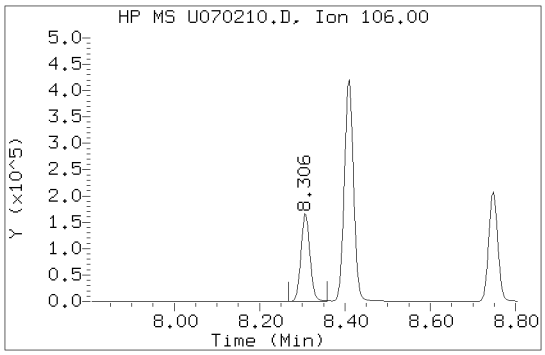
BEFORE

MASS
106
AREA
248379
HEIGHT
165996
10-Jul-2024
08:51
RUCHA
PATEL



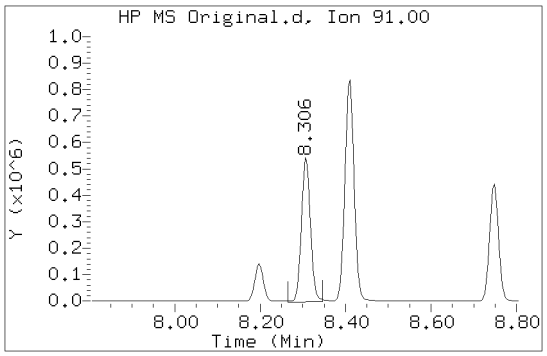
AFTER

MASS
106
AREA
248379
HEIGHT
165996
10-Jul-2024
09:57
RUCHA
PATEL



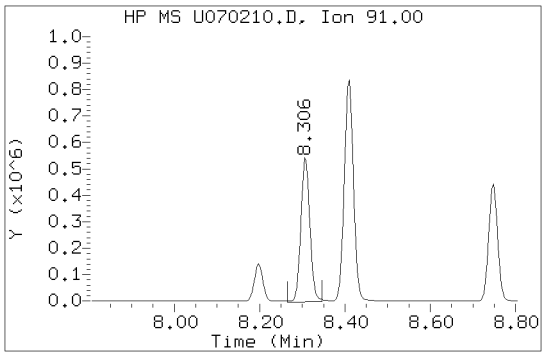
BEFORE

MASS
91
AREA
824898
HEIGHT
545278
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
91
AREA
824898
HEIGHT
545278
10-Jul-2024
09:57
RUCHA
PATEL

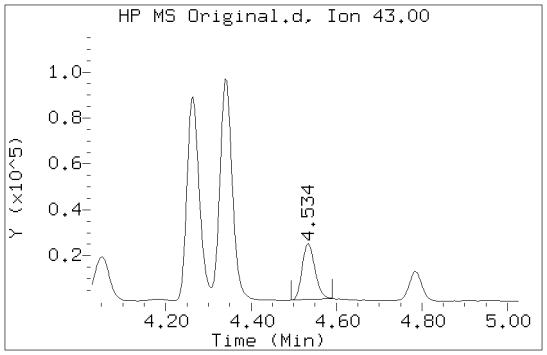


Ethyl Acetate (141-78-6)

Reason Code:

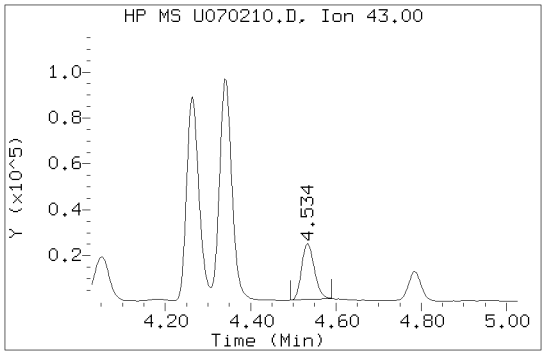
BEFORE

MASS
43
AREA
50925
HEIGHT
24343
10-Jul-2024
08:51
RUCHA
PATEL



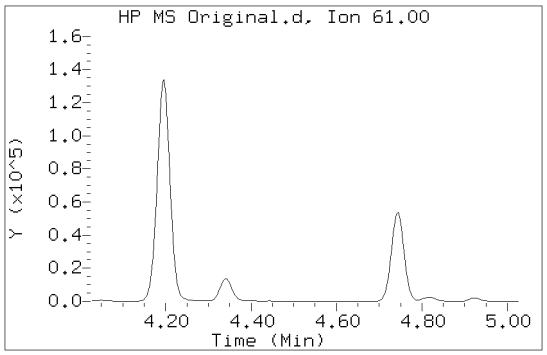
AFTER

MASS
43
AREA
50925
HEIGHT
24343
10-Jul-2024
09:57
RUCHA
PATEL



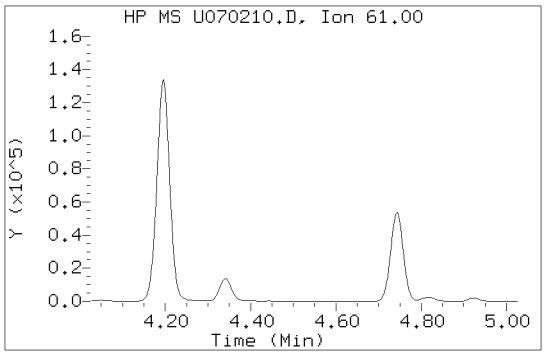
BEFORE

MASS
61
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL



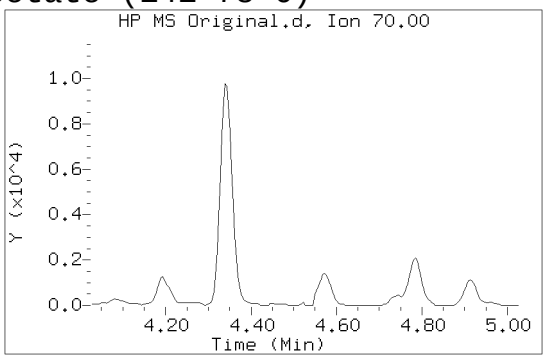
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070210.D
Inj Date : 02-JUL-2024 13:00
InstruID : VOA9.i
LabSampID : VSTD150

Ethyl Acetate (141-78-6)

Reason Code:

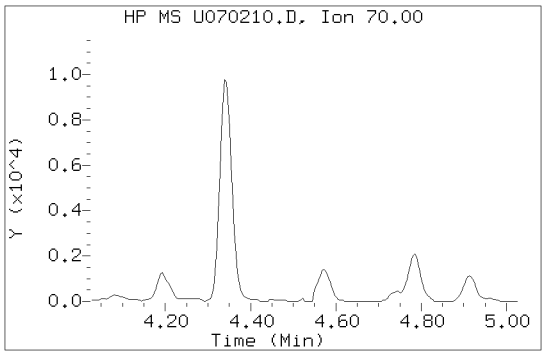
BEFORE

MASS
70
AREA
0
HEIGHT
0
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
10-Jul-2024
09:57
RUCHA
PATEL

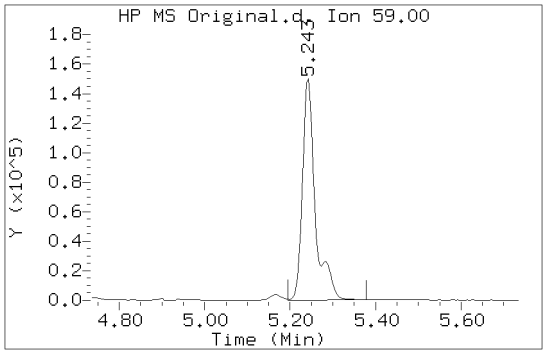


tert-Butyl formate (762-75-4)

Reason Code:

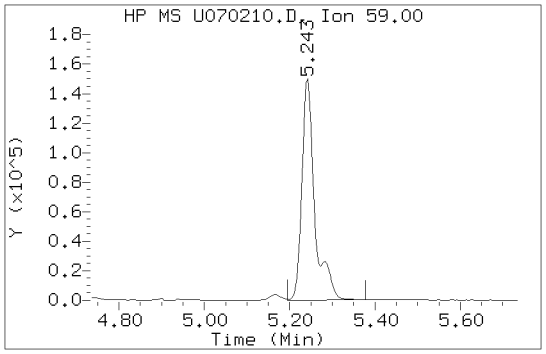
BEFORE

MASS
59
AREA
320503
HEIGHT
150109
10-Jul-2024
08:51
RUCHA
PATEL



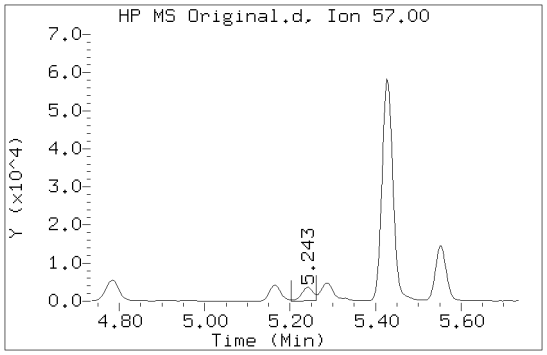
AFTER

MASS
59
AREA
320503
HEIGHT
150109
10-Jul-2024
09:57
RUCHA
PATEL



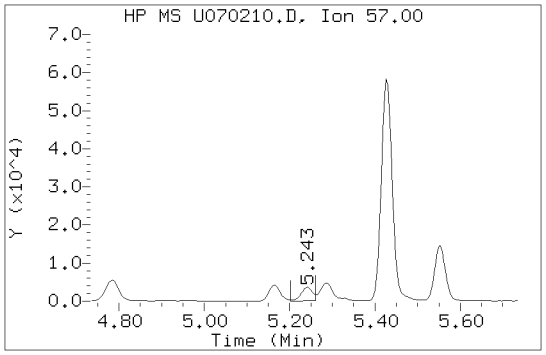
BEFORE

MASS
57
AREA
6981
HEIGHT
3530
10-Jul-2024
08:51
RUCHA
PATEL



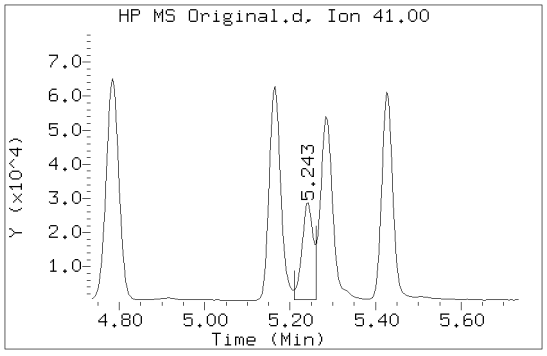
AFTER

MASS
57
AREA
6981
HEIGHT
3530
10-Jul-2024
09:57
RUCHA
PATEL



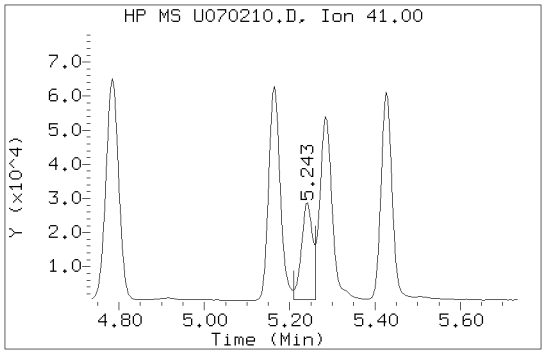
BEFORE

MASS
41
AREA
55641
HEIGHT
28423
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
41
AREA
55641
HEIGHT
28423
10-Jul-2024
09:57
RUCHA
PATEL



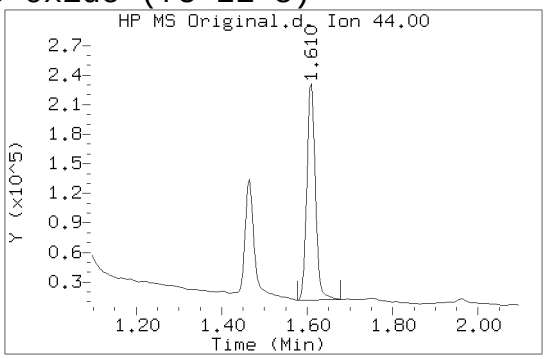
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070210.D
Inj Date : 02-JUL-2024 13:00
InstruID : VOA9.i
LabSampID : VSTD150

Ethylene oxide (75-21-8)

Reason Code:

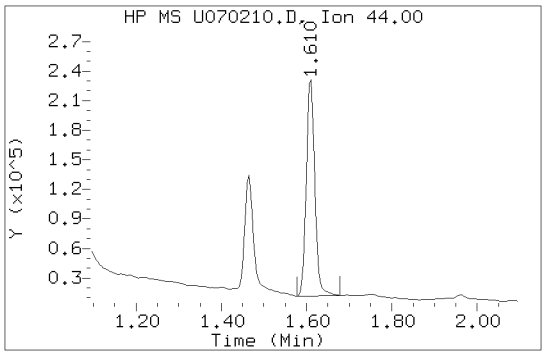
BEFORE

MASS
44
AREA
312387
HEIGHT
219361
10-Jul-2024
08:51
RUCHA
PATEL



AFTER

MASS
44
AREA
312387
HEIGHT
219361
10-Jul-2024
09:57
RUCHA
PATEL

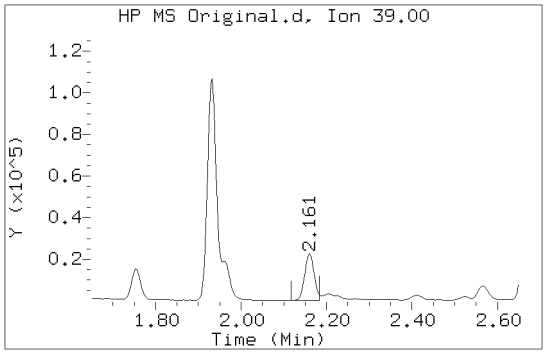


Isoprene (78-79-5)

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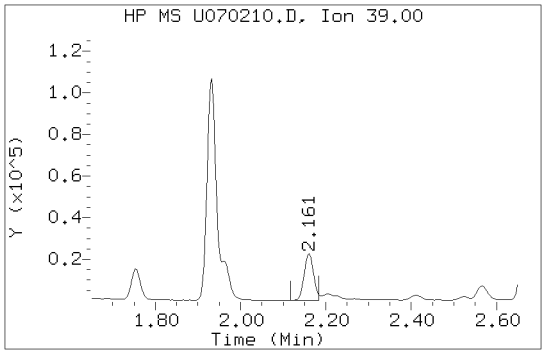
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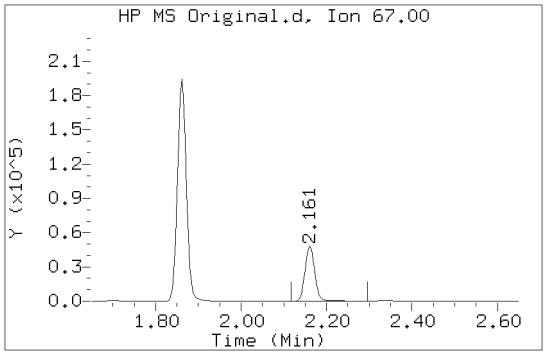
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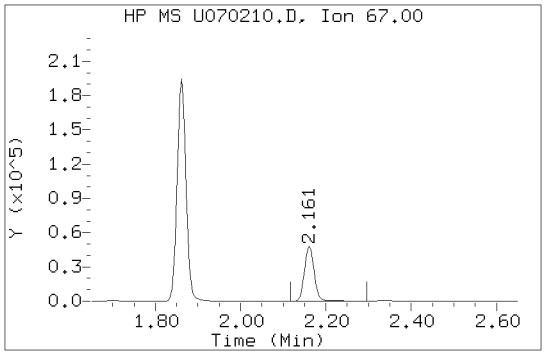
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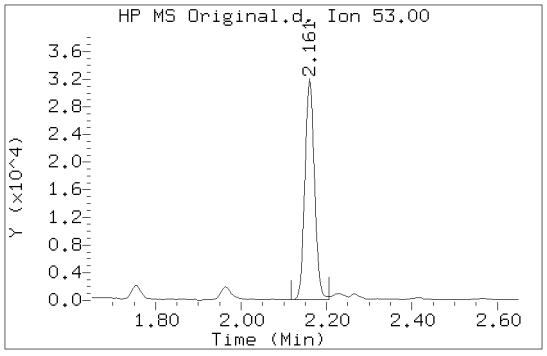
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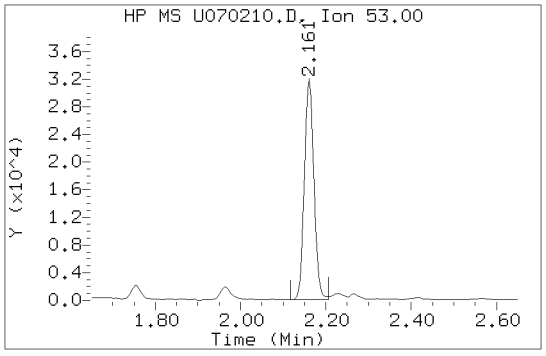
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AFTER

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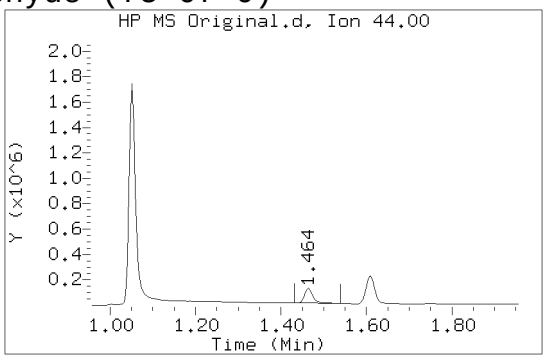
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Inj Date : 02-JUL-2024 13:00
InstruID : VOA9.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

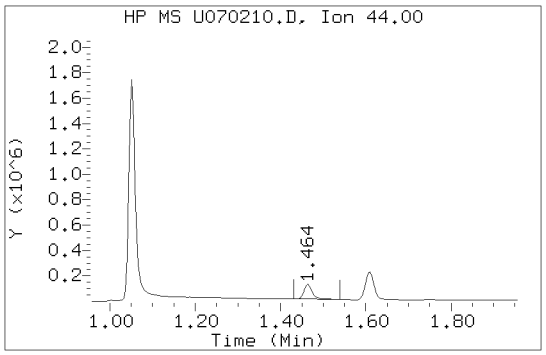
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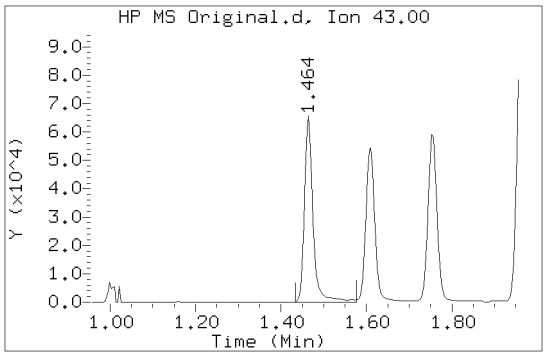
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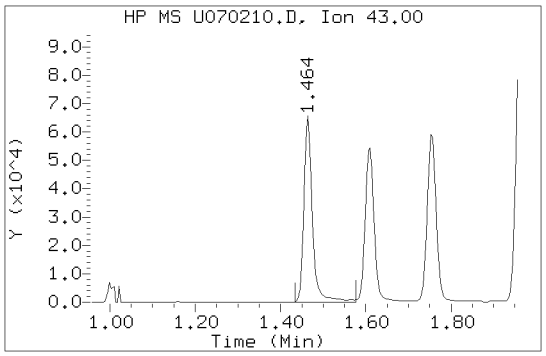
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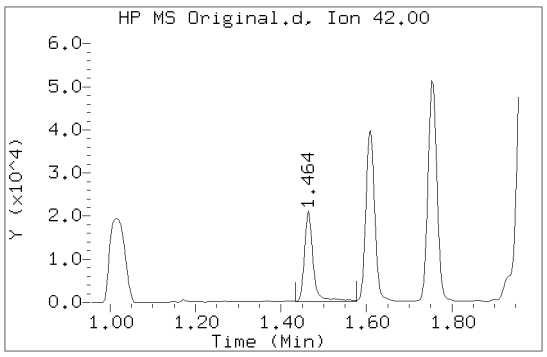
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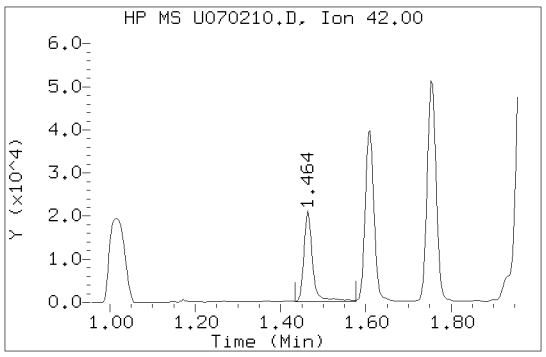
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AFTER

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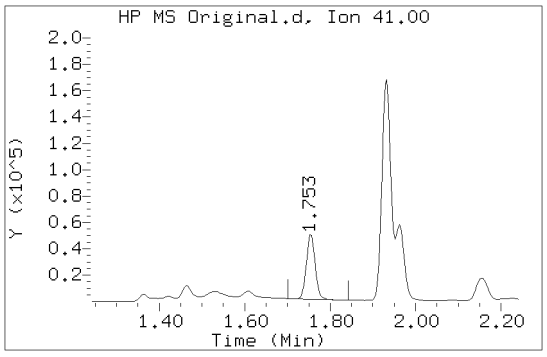


Isobutylene (115-11-7)

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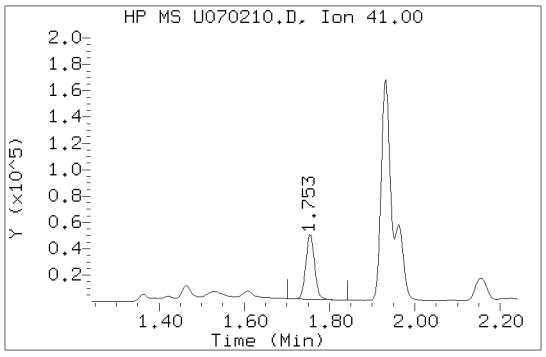
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AFTER

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HEIGHT
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10-Jul-2024
09:57
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PATEL



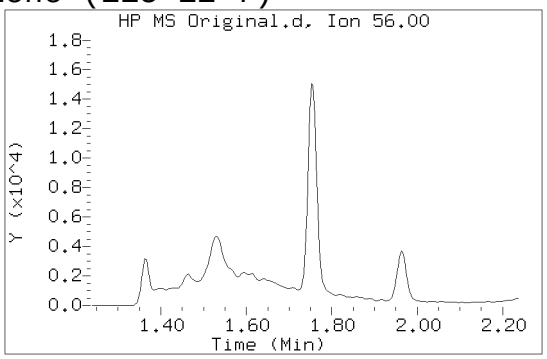
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InstruID : VOA9.i
LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

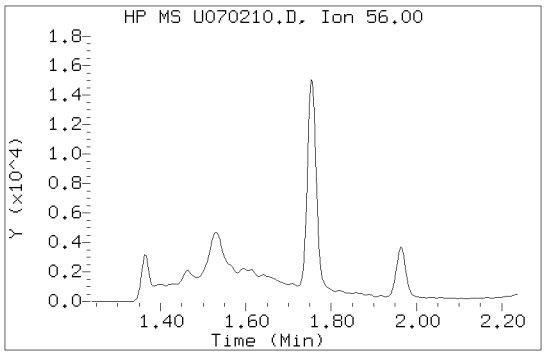
BEFORE

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10-Jul-2024
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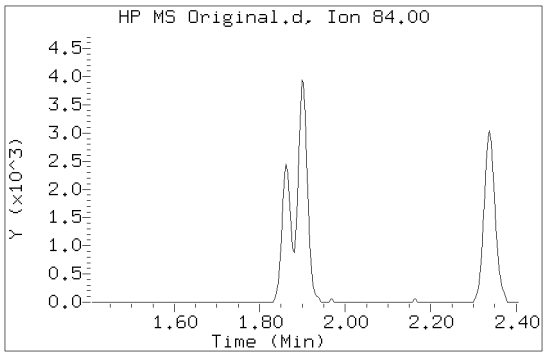
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10-Jul-2024
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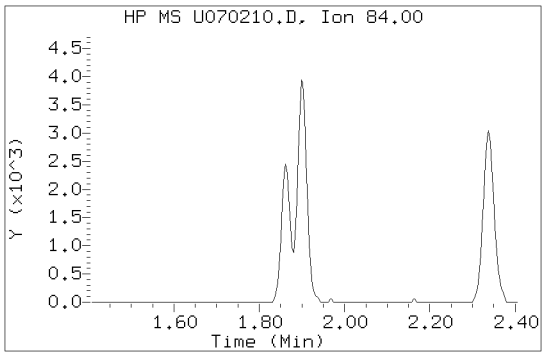
BEFORE

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10-Jul-2024
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AFTER

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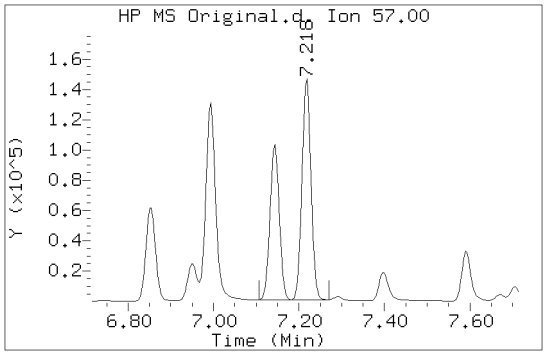


sec-Butyl Ether (6863-58-7)

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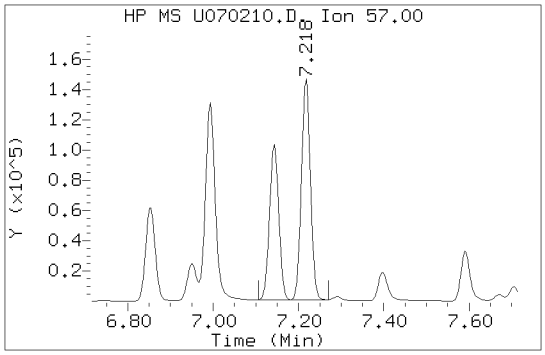
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10-Jul-2024
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AFTER

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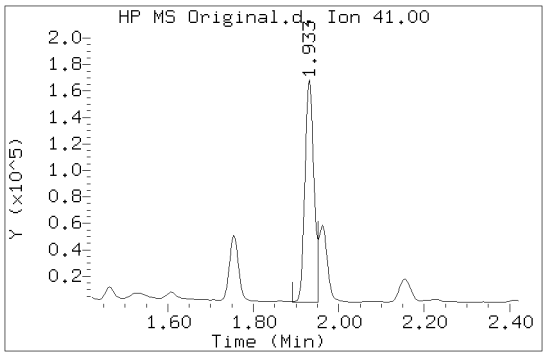


2-Chloropropene (557-98-2)

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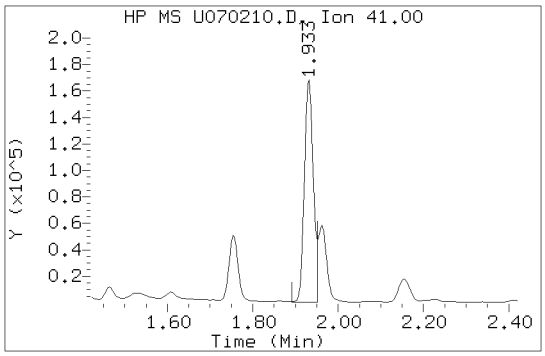
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10-Jul-2024
08:51
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PATEL



AFTER

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167815
10-Jul-2024
09:57
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070211.D Page 1
Report Date: 10-Jul-2024 09:57

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240702.b\U070211.D
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Inj Date : 02-JUL-2024 13:22
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
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Meth Date : 10-Jul-2024 09:57 VOA9.i Quant Type: ISTD
Cal Date : 02-JUL-2024 13:00 Cal File: U070210.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	207800	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.243)	217138	200.000	199.33(M)
3	Chloromethane	50	1.303	1.303	(0.270)	452696	200.000	199.32(M)
4	Propionitrile	54	4.339	4.339	(0.900)	345987	2000.00	1947.91
5	Vinyl Chloride	62	1.385	1.385	(0.287)	296869	200.000	213.24(AM)
6	Bromomethane	94	1.621	1.621	(0.337)	112316	200.000	199.15
7	Chloroethane	64	1.704	1.704	(0.354)	188883	200.000	187.78
8	Trichlorofluoromethane	101	1.902	1.902	(0.395)	355753	200.000	228.62(A)
9	Acrolein	56	2.270	2.270	(0.471)	23052	400.000	393.29
10	Acetone	43	2.412	2.412	(0.501)	147501	400.000	388.51
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	200143	200.000	212.17(A)
12	Isobutyl Alcohol	43	5.287	5.287	(1.097)	723355	4000.00	4179.91(A)
13	Acetonitrile	39	2.678	2.678	(0.556)	248217	2000.00	2003.66(A)
14	Allyl Chloride	41	2.678	2.678	(0.556)	574959	200.000	184.09
15	Iodomethane	142	2.472	2.472	(0.513)	332778	400.000	251.00
16	Acrylonitrile	53	3.068	3.068	(0.637)	160592	400.000	399.81
17	Methylene Chloride	84	2.798	2.798	(0.581)	239383	200.000	200.31(A)
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	592529	200.000	194.53
19	Carbon Disulfide	76	2.525	2.525	(0.524)	1148385	400.000	428.23(A)
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	218048	200.000	202.43(A)

21 Vinyl Acetate	43	4.343	4.343 (0.901)	270928	400.000	400.30(A)
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	394456	200.000	187.82

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.616	3.616	(0.750)	341347	200.000	214.64(A)
	24 2-Butanone	43	4.264	4.264	(0.885)	242339	400.000	380.64
	25 Methacrylonitrile	41	4.496	4.496	(0.933)	160353	200.000	196.75(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	327503	200.000	202.54(A)
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.871)	271418	200.000	202.60(A)
	28 Chloroform	83	4.575	4.575	(0.949)	432455	200.000	190.06
	29 Bromochloromethane	128	4.470	4.470	(0.928)	131619	200.000	196.31
$	30 Dibromofluoromethane	113	4.924	4.924	(1.022)	5334	200.000	3.94
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	369085	200.000	202.07(A)
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	332499	200.000	215.40(A)
	33 1,2-Dichloroethane	62	5.179	5.179	(0.933)	333586	200.000	186.92(M)
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	313826	200.000	202.37(AM)
$	35 1,2-Dichloroethane-d4	65	5.179	5.179	(1.075)	13817	200.000	8.61
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	301368	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	996811	200.000	191.65
	38 Trichloroethene	130	5.790	5.790	(1.043)	261399	200.000	210.52(A)
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	332772	200.000	215.66(A)
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	101672	200.000	216.85(A)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	41567	400.000	141.88
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	263419	200.000	191.14(M)
	43 2-Nitropropane	43	6.854	6.854	(1.422)	541838	200.000	209.31(A)
	44 Dibromomethane	93	6.120	6.120	(1.102)	157768	200.000	196.93
	45 4-Methyl-2-Pentanone	43	6.854	6.854	(0.837)	541838	400.000	422.92(A)
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	407073	200.000	202.18(A)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	274122	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	2796	200.000	0.58(a)
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	378107	200.000	232.63
	50 Toluene	91	6.982	6.982	(0.853)	1066680	200.000	209.81(A)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	335426	200.000	203.37(A)
	52 2-Hexanone	43	7.218	7.218	(0.882)	338535	400.000	399.50
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	192546	200.000	191.80
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	412339	200.000	197.32
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	266332	200.000	228.04(A)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	208332	200.000	201.18(A)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	234189	200.000	214.60(A)
	58 1-Chlorohexane	55	8.196	8.196	(1.476)	204624	200.000	200.71(A)
	59 Chlorobenzene	112	8.211	8.211	(1.003)	675019	200.000	193.72
	60 1,1,1,2-Tetrachloroethane	131	8.286	8.286	(1.012)	250403	200.000	218.41(A)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	356175	200.000	224.59(AM)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	885650	400.000	402.73(A)
	63 o-Xylene	106	8.747	8.747	(1.069)	435068	200.000	201.52(A)
	64 Styrene	104	8.762	8.762	(1.071)	745202	200.000	201.15(A)
	66 Bromoform	173	8.920	8.920	(1.090)	185219	200.000	205.26(A)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1115179	200.000	201.80(A)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	325492	200.000	195.94
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	1436	200.000	0.79(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	146278	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	313051	200.000	193.05
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	64492	200.000	198.59
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	1302918	200.000	206.08(A)
	74 Bromobenzene	156	9.317	9.317	(0.916)	298908	200.000	209.65(A)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	917521	200.000	200.25(A)

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	767701	200.000	214.85(A)
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	887444	200.000	219.54(A)

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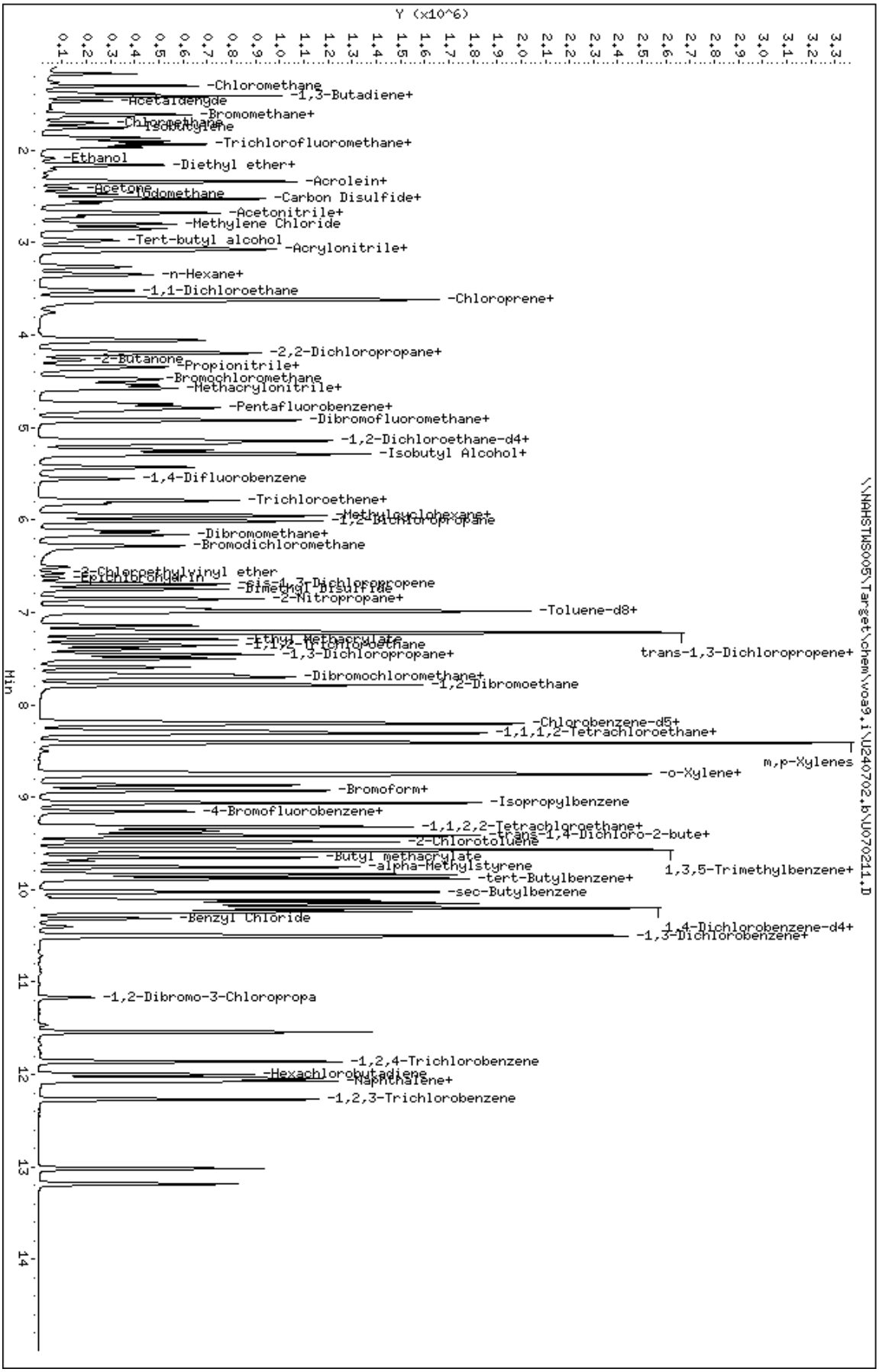
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	797218	200.000	203.06(A)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	902059	200.000	205.21(A)
81	sec-Butylbenzene	105	10.026	10.026	(0.986)	1092207	200.000	203.41(A)
82	p-Isopropyltoluene	119	10.150	10.150	(0.998)	978644	200.000	204.11(A)
83	1,3-Dichlorobenzene	146	10.506	10.506	(1.033)	522010	200.000	187.55
84	1,4-Dichlorobenzene	146	10.506	10.506	(1.033)	522010	200.000	187.55
86	Benzyl Chloride	91	10.311	10.311	(1.260)	352990	200.000	199.84
87	n-Butylbenzene	91	10.494	10.494	(1.032)	856964	200.000	204.32(A)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	522010	200.000	187.55
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	50226	200.000	199.32
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	377587	200.000	200.39(A)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	168006	200.000	202.15(A)
92	Naphthalene	128	12.069	12.069	(1.186)	857519	200.000	205.26(A)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	346361	200.000	239.63(A)
146	Methyl acetate	43	2.720	2.720	(0.564)	188241	200.000	181.03
138	Freon TF	101	2.341	2.341	(0.486)	200981	200.000	201.79(A)
141	Cyclohexane	56	4.785	4.785	(0.993)	360242	200.000	201.83(A)
142	Tetrahydrofuran	42	4.541	4.541	(0.942)	85373	400.000	403.01(A)
147	Methylcyclohexane	55	5.947	5.947	(1.071)	636023	200.000	227.04(A)
135	1,4-Dioxane	88	6.165	6.165	(1.279)	56137	4000.00	4039.71(A)
132	n-Butanol	56	5.824	5.824	(1.208)	152790	4000.00	4723.94(A)
136	n-Hexane	57	3.346	3.346	(0.694)	238278	200.000	201.38(A)
139	Diethyl ether	59	2.150	2.150	(0.446)	165800	200.000	201.26(A)
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	395287	4000.00	4032.51(A)
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	300644	4000.00	3993.86
156	Diisopropyl ether	45	3.627	3.627	(0.753)	721105	200.000	197.32
162	Butyl acrylate	55	8.732	8.732	(1.067)	539810	200.000	199.71
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	1157040	200.000	200.89(A)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	813596	200.000	222.20(A)
167	Ethanol	45	2.090	2.090	(0.434)	55312	4000.00	4029.56(A)
172	tert-Butyl formate	59	5.246	5.246	(1.089)	456474	400.000	476.86(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	1527502	4000.00	4833.44(A)
140	1,3-Butadiene	54	1.411	1.411	(0.293)	282585	200.000	200.76(A)
182	Epichlorohydrin	57	6.629	6.629	(1.194)	53949	800.000	722.67
M 94	1,2-Dichloroethylene (total)	96				489466	400.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	367882	200.000	199.43
130	Ethyl Acetate	43	4.538	4.538	(0.942)	63775	200.000	195.95(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	298792	200.000	201.66(A)
189	n-Butyl acetate	43	7.705	7.705	(0.941)	429851	200.000	217.52(A)
134	Cyclohexanone	55	9.152	9.152	(0.900)	240154	4000.00	3999.69
185	Isoprene	39	2.161	2.161	(0.449)	47558	200.000	198.96(M)
188	Isopropyl acetate	43	5.287	5.287	(0.952)	719178	200.000	207.01(A)
150	Allyl alcohol	57	3.346	3.346	(0.694)	238278	4000.00	4027.77(A)
194	Acetaldehyde	44	1.468	1.468	(0.305)	204060	800.000	711.38(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	352246	200.000	44.93
202	Isobutylene	41	1.756	1.756	(0.364)	94500	200.000	197.27(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	636023	200.000	227.01(A)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	278445	200.000	194.67
159	Propylene oxide	43	2.206	2.206	(0.458)	31832	400.000	404.64(A)
178	Ethylene oxide	44	1.610	1.610	(0.334)	439336	400.000	442.18(AM)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	360055	200.000	177.79
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	288398	200.000	211.76(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	548017	200.000	220.57(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	466333	200.000	221.36(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
206 2-Chloropropene	41	1.932	1.932	(0.401)	347892	200.000	211.60(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VSTD200;VSTD200;1;10
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

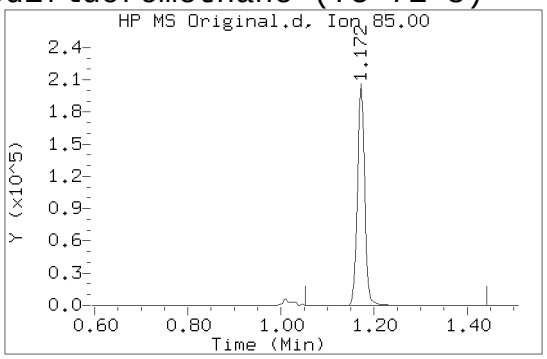
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LabSampID : VSTD200

Dichlorodifluoromethane (75-71-8)

Reason Code:

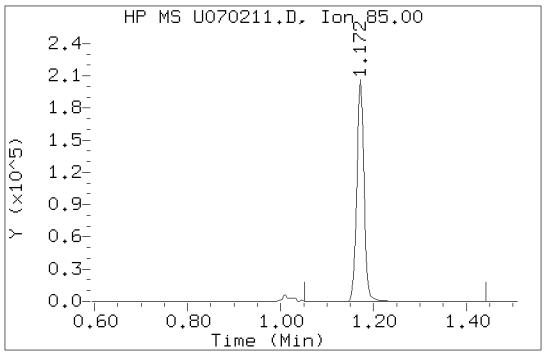
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10-Jul-2024
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PATEL



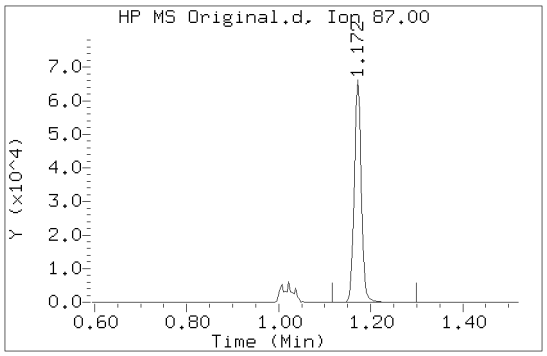
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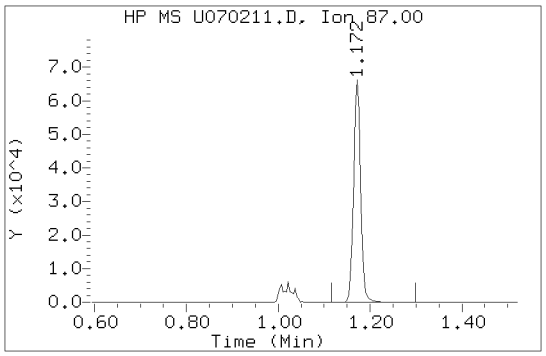
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AFTER

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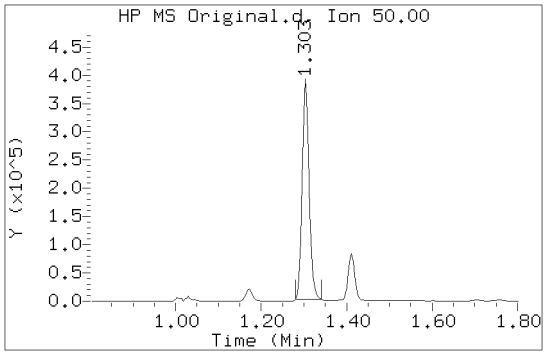


Chloromethane (74-87-3)

Reason Code:

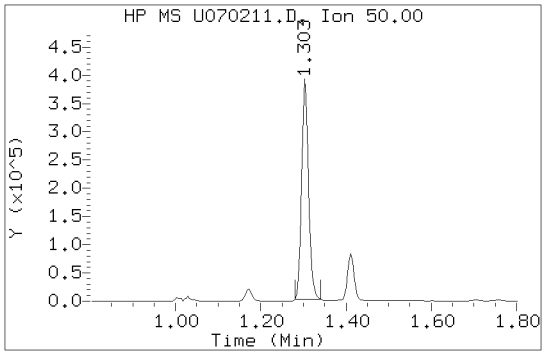
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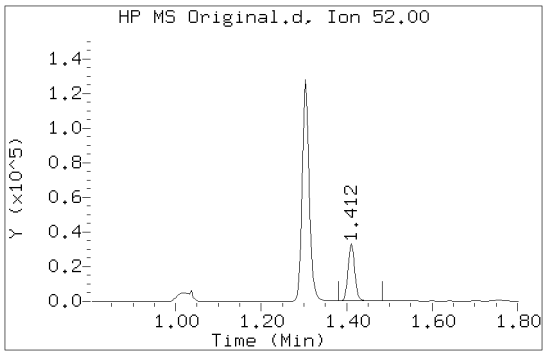
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BEFORE

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RUCHA
PATEL



AFTER

MASS
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33060
10-Jul-2024
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